

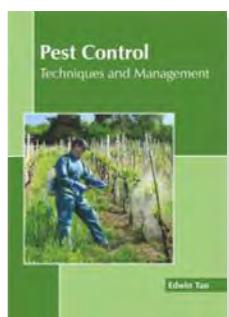
International Catalog 2017

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- Agricultural Sciences
 - Biochemistry, Genetics, Biotechnology and Molecular Biology
 - Earth and Planetary Sciences
 - Environmental Sciences and Energy
 - Food Science, Health and Nutrition
 - Pharmaceutical Science and Alternative Medicine
 - Orthopedics, Sports and Rehabilitation Medicine
 - Veterinary Science and Medicine

Contents

Agricultural Sciences	1	Mass Spectroscopy Biogeography
Agricultural Sciences		
Agronomy		
Soil Science		
Crops		
Botany and Plant Science		
Horticulture		
Livestock		
Botany		
Plant Pathology		
Genetics		
Genetic Engineering		
Sustainability		
Hydroculture		
Water Management		
Food Science		
Food Safety		
Food Industry		
Dairy Science		
Fisheries		
Forestry		
Food Science, Health and Nutrition	44	Earth and Planetary Sciences
Food Science		Earth and Planetary Sciences
Nutrition		Atmospheric Sciences
		Climate and Weather
		Natural Disasters
		Sustainability
		Earth Science
		Remote Sensing
		Astronomy & Astrophysics
		Geography
		Geology & Geophysics
		Oceanography
		Geophysics
		Sedimentology
		Mining Techniques
		Urban Studies and Planning
Biochemistry, Genetics, Biotechnology and Molecular Biology	48	Environmental Sciences
Biochemistry, Genetics, Biotechnology and Molecular Biology		Environmental Sciences
Biochemistry		Ecology
Carbohydrate Chemistry		Ecosystems
Proteins		Biodiversity
Proteomics		Soil Science
Genetics		Forestry
Cell Biology		Environmental Management
Molecular Biology		Environmental Engineering
Biotechnology		Pollution
Bioinformatics		Air Pollution
Immunology & Microbiology		Greenhouse Gas
Medicine		Climate and Weather
Muscular Systems		Disasters
Neurophysiology		Sustainability
		Sustainable Development
		Waste Management
		Water Management
		Water Conservation
		Hydrology
		Marine Biology
		Urban Studies and Planning
		Landscape Architecture
Biological Sciences	88	Energy
Biological Sciences		Energy
Biological Engineering		Alternative Energy
Evolutionary Biology		
Biodiversity		
Botany		
Marine Biology		
Fisheries		
Zoology		
Sustainability		
Waste Management		
Food Science		
Genetics		
Cell Biology		
Computational Biology		
Immunology & Microbiology		
Developmental Biology		
Gerontology		
Biophysics		
		Complementary and Alternative Medicine
		210
		Orthopedics, Sports and Rehabilitation Medicine
		214
		Pharmaceutical Sciences
		219
		Public Health
		222
		Veterinary Science and Medicine
		227
		List of Titles
		229

Agricultural Sciences

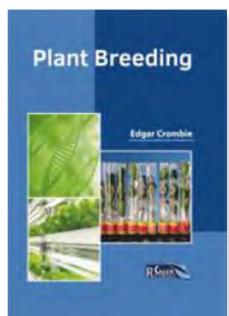


Agronomy

Edwin Tan	ISBN 978-1-63239-781-2	\$127.00 US	2017	Book Size 8.5"x11"	203pp. Colored	Hardback
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Pest Control: Techniques and Management

Regulation and management of pests in the agricultural setting is called pest control. It is considered hazardous not only to a person's health but also to the environment. This book will offer an insight into the umpteen numbers of measures that have been applied to combat pests across the world. It discusses the fundamentals as well as modern approaches of pest control. It strives to provide a fair idea about this field and to help develop a better understanding of the latest advances within this field. The topics included in this book are of utmost significance and bound to provide incredible information to readers and professionals.

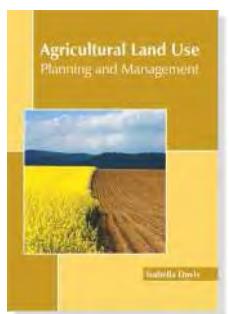


Agronomy

Edgar Crambie	ISBN 978-1-63239-778-2	\$145.00 US	2017	Book Size 7.75"x10.5"	249pp. Colored	Hardback
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Plant Breeding

This book provides comprehensive insights into different techniques and strategies of plant breeding. It is the tool of altering the traits of plants to get the desired characteristics. Today, it is practiced worldwide by individuals and professionals. This book unfolds the innovative aspects of plant breeding which will be crucial for the progress of this field in the future. It consists of contributions made by international experts. This book is a confluence of theory and practice with extensive use of examples. It is an invaluable source of knowledge for students, professionals and researchers in this field.

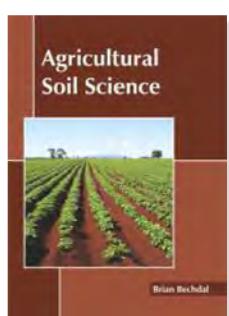


Soil Science

Isabella Davis	ISBN 978-1-63239-799-7	\$150.00 US	2017	Book Size 8.5"x11"	262pp. Colored	Hardback
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Agricultural Land Use: Planning and Management

This book provides comprehensive insights into the field of agricultural land use. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Agricultural land use refers to the optimum utilization of land for livestock management, food production and other agricultural activities. It comprises of planning methods for arable land, permanent cropland, permanent pastures, agriculturally-zoned area, etc. The planning and management of farmland is required to strike a balance between farming and environmental conservation. Most of the topics introduced in this book cover new techniques and the applications of agricultural land use. Those with an interest in this field would find it helpful. Coherent flow of topics, student-friendly language and extensive use of examples make this text an invaluable source of knowledge.



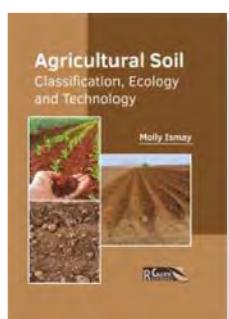
Soil Science

Brian Bechdal	ISBN 978-1-63239-788-1	\$150.00 US	2017	Book Size 8.5"x11"	263pp. Colored	Hardback
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Agricultural Soil Science

Agricultural soil science is the study and management of soil in relation to its ecosystem. Agricultural soil sciences integrate the study of soil as a manageable natural resource and the various techniques of sowing, irrigation and tillage practiced on it. This book will prove especially important for experts in the field of agricultural sciences, geology and biochemistry. Agricultural soil sciences study all aspects of cultivation along with newer concerns for biodiversity and conservation practices. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject.

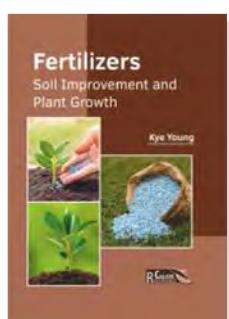
Agricultural Sciences



Molly Ismay	ISBN 978-1-63239-791-1	\$150.00 US	2017	Book Size 7.75"×10.5"	261pp. Colored	Hardback
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Agricultural Soil: Classification, Ecology and Technology

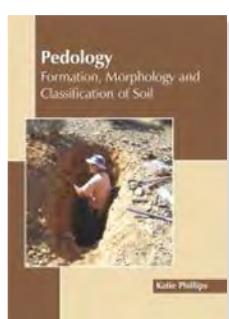
As a part of soil science, agricultural soil refers to the study of soil as used in the production of food and fiber. It closely examines the relationship of soil with agriculture along with technological advances to increase agriculture production. Some of the areas dealt within are soil erosion, soil classification and soil fertility among others. This book explores all the important aspects of agricultural soil in the present day scenario. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Scientists and students actively engaged in this discipline will find this book full of crucial and unexplored concepts. It will serve as a beneficial resource guide for readers.



Kye Young	ISBN 978-1-63239-792-8	\$140.00 US	2017	Book Size 7.75"×10.5"	240pp. Colored	Hardback
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Fertilizers: Soil Improvement and Plant Growth

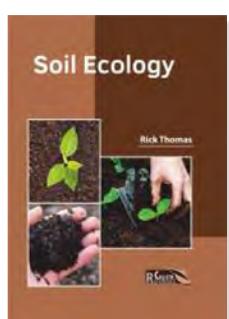
This book outlines the benefits and applications of fertilizers in soil and plant growth in detail. Fertilizers are natural or synthetic substances used for enhancing the soil with essential nutrients. They are necessary for plant growth and crop yield quality. This book elucidates the concepts and innovations and respective developments with respect to this field. The topics included in this book are of utmost significance and are bound to provide incredible insights to readers about fertilizers. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. This text is an essential guide for both academicians and those who wish to pursue this discipline further.



Katie Phillips	ISBN 978-1-63239-797-3	\$150.00 US	2017	Book Size 8.5"×11"	259pp. Colored	Hardback
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Pedology: Formation, Morphology and Classification of Soil

Pedology is the science of the natural occurrence of various types of soil. Soil formation is the basis for planetary life and plays an important part in species evolution and propagation. This book brings together research on various aspects on Pedology and its relation to agriculture. Researchers and experts in the fields of soil science will find this book suitable for their study. This book discusses fundamentals as well as modern approaches of Pedology by unfolding the innovative aspects of this field.

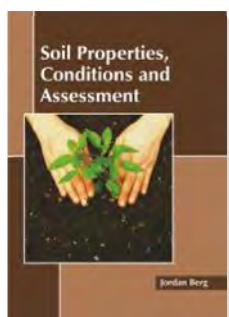


Rick Thomas	ISBN 978-1-63239-798-0	\$155.00 US	2017	Book Size 7.75"×10.5"	288pp. Colored	Hardback
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Soil Ecology

Soil Ecology encompasses the study of the numerous interactions taking place in the soil. It includes the interactions between organisms as well as that with environmental factors. Soil Ecology directly affects the process of the plant growth. This book aims to shed light on some of the unexplored aspects of this field. Coherent flow of topics, student-friendly language and extensive use of examples make this book a valuable source of knowledge. Researchers, students and professionals engaged in the field of agriculture, botany, soil science and horticulture will find this book extremely useful.

Agricultural Sciences



Soil Science

Jordan Berg

ISBN
978-1-63239-790-4

\$150.00 US

2017

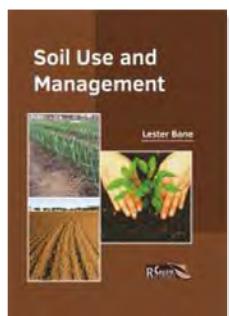
Book Size
8.5"x11"

261pp.
Colored

Hardback

Soil Properties, Conditions and Assessment

This book provides comprehensive insights into the field of soil. It elucidates the concepts of soil formation, properties, morphology, fertility, etc. It sheds light on the various soil quality assessment techniques. Also included in this text is a detailed explanation of the various concepts and methods required to improve soil conditions. The book presents researches and studies performed by experts across the globe in this area. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of information. Readers would gain knowledge that would broaden their perspective about this subject.



Soil Science

Lester Bane

ISBN
978-1-63239-789-8

\$150.00 US

2017

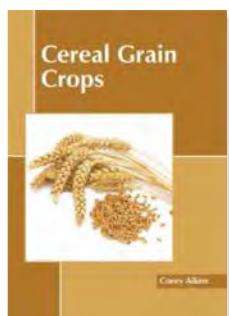
Book Size
7.75"x10.5"

264pp.
Colored

Hardback

Soil Use and Management

Soil Use and management refers to the practices used for protecting and managing soil. It incorporates all the functions and treatments required for soil enhancement and nutrient management. Some of the major aspects of soil management are to maintain soil fertility, increase crop yield, improve soil structure and function, reduce tillage, etc. This book provides significant information of this discipline to help develop a good understanding of the area and related fields. Most of the topics introduced in it cover new techniques and the applications within this area. Researchers and students interested in the subject will be assisted by this text as it comprises contributions of experts from across the globe.



Crops

Corey Aiken

ISBN
978-1-63239-784-3

\$150.00 US

2017

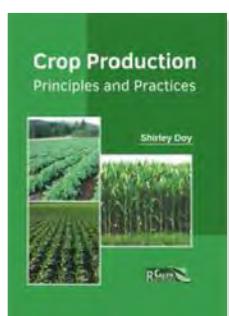
Book Size
8.5"x11"

260pp.
Colored

Hardback

Cereal Grain Crops

Cereal grain crops are members of the grass family that are grown for their edible and scratchy seeds. Cereals include the most consumed food articles such as rice, maize, wheat, etc. and are hence part of staple crops. Topics included in the book deal with production of cereals as well as the study of different crop patterns and farming methods. Cereal farming is universally practiced and hence, there is an abundance of techniques of harvest, irrigation and storage. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts. This book is an essential guide for both academicians and those who wish to pursue this discipline further. It includes contributions of experts and scientists which will provide innovative insights into this field.



Crops

Shirley Doy

ISBN
978-1-63239-783-6

\$130.00 US

2017

Book Size
7.75"x10.5"

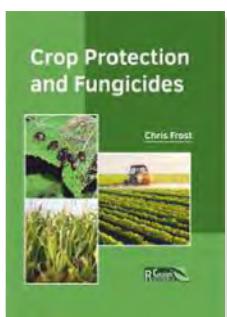
211pp.
Colored

Hardback

Crop Production: Principles and Practices

This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of crop production. This book presents the complex subject of crop production in the most comprehensible and easy to understand language. The book covers the fundamentals of the topic and critically addresses the advancements in the field of crop production. The objective of this book is to give a general view of the different areas of crop production. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject.

Agricultural Sciences



Chris Frost

ISBN
978-1-63239-793-5

\$130.00 US

2017

Book Size
7.75"×10.5"

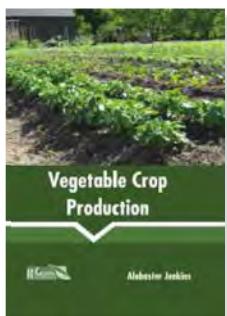
211pp.
Colored

Crops

Hardback

Crop Protection and Fungicides

This book discusses the fundamental as well as modern approaches of using fungicides for crop production. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Crop protection refers to study and practice of protecting crops from harmful pests, fungi, weeds and diseases. Fungicides are an important part of crop protection science, along with pesticides, herbicides, etc. This book elucidates new techniques and their applications in a multidisciplinary approach. It presents researches and studies performed by experts across the globe. This text is a compilation of chapters that discuss the most vital concepts and emerging trends in this field. It is appropriate for students seeking detailed information in this area as well as for experts.



Alabaster Jenkins

ISBN
978-1-63239-785-0

\$142.00 US

2017

Book Size
7.75"×10.5"

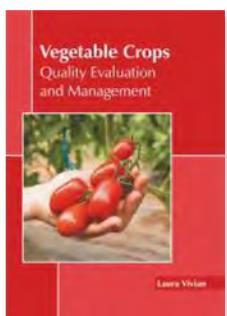
243pp.
Colored

Crops

Hardback

Vegetable Crop Production

Vegetable crop production is the cultivation of vegetables for consumption. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area such as horticultural practices and methods for crop improvement. The aim of this book is to present researches that have transformed this discipline and aided its advancement. It is a compilation of chapters that discuss the most vital concepts and emerging trends in this field of crop production. It studies, analyses and upholds the pillars of vegetable production and its utmost significance in modern times. For someone with an interest and eye for detail, this book covers the most significant topics in the field of vegetable crop production.



Laura Vivian

ISBN
978-1-63239-786-7

\$140.00 US

2017

Book Size
8.5"×11"

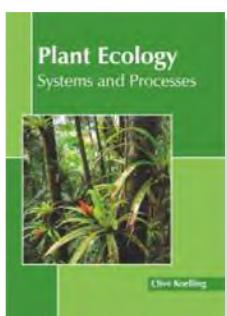
238pp.
Colored

Crops

Hardback

Vegetable Crops: Quality Evaluation and Management

Vegetable crop production is the production of vegetables for commercial purposes. Knowledge of seed variety and good use of water resources is vital for vegetable crop management. The study of vegetable crops help produce knowledge on horticultural practices, biodiversity and conservation. Bioengineering research has ensured continuous access of high yield variety seeds to farmers as well as to homes. This book will also provide interesting topics for research which interested readers can take up in the field of genetic engineering, production of fertilizers as well as pest management. Topics included in the book equip researchers and experts with details on plant morphology, climatic and soil requirements, and methods of crop culture. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study.



Clive Koelling

ISBN
978-1-63239-796-6

\$145.00 US

2017

Book Size
8.5"×11"

257pp.
Colored

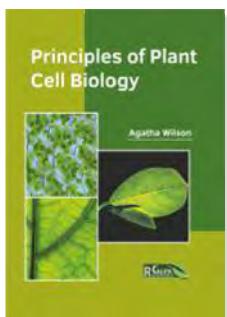
Botany and Plant Science

Hardback

Plant Ecology: Systems and Processes

The study of distribution and abundance of plants focusing on the ecological factors is called plant ecology. The aim of this book is to present researches that have transformed this discipline and aided its advancement. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of plant ecology. Some of the diverse topics covered in this book address the varied branches that fall under this discipline. Researches and case studies from across the world have been included in this text. It will prove to be immensely beneficial to students and researchers in this field.

Agricultural Sciences

**Agatha Wilson**ISBN
978-1-63239-801-7

\$135.00 US

2017

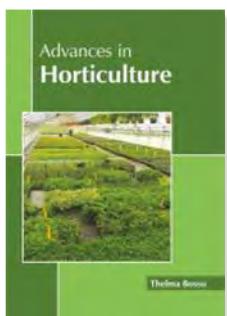
Book Size
7.75"×10.5"231pp.
Colored

Hardback

Botany and Plant Science

Principles of Plant Cell Biology

The study of the eukaryotic plant cells is defined as plant cell biology. This book outlines the processes and applications of this discipline in detail. The text will enable its reader to understand the principles of this field in a comprehensive and lucid manner. The book is appropriate for students seeking detailed information in this area as well as for experts. This book traces the progress of this field and highlights some of its key concepts and applications. It unfolds the innovative aspects of plant cell biology which will be crucial for the progress of this field in the future. It consists of contributions made by international experts.

**Thelma Bosso**ISBN
978-1-63239-787-4

\$125.00 US

2017

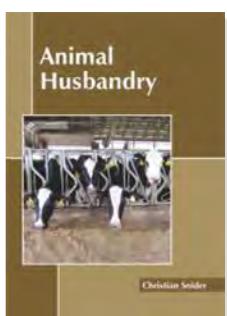
Book Size
8.5"×11"190pp.
Colored

Hardback

Horticulture

Advances in Horticulture

Horticulture is the science of growing plants. Advancements in horticultural studies have branched into various sub-disciplines such as plant conservation, arboriculture and landscape design and restoration. The objective of this book is to give a general view of the different areas of horticulture and its applications. Horticulture opens the way for many types of agricultural practices and it has a big impact on agricultural sciences as well as soil sciences. This book contains some path-breaking studies in the field of horticulture. It elucidates new techniques and their applications in a multidisciplinary approach. This text provides significant information of this discipline to help develop a good understanding of horticulture and related fields. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of horticulture.

**Christian Snider**ISBN
978-1-63239-779-9

\$130.00 US

2017

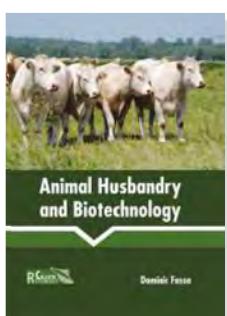
Book Size
8.5"×11"220pp.
Colored

Hardback

Livestock

Animal Husbandry

The management and care of farm animals through which the genetic qualities and behavior of the animals are designed to be advantageous to humans is called animal husbandry. Selective breeding is an alternative term used to refer to animal husbandry. This book explores all the important aspects of animal husbandry in the present day scenario focusing on different breeding techniques and advanced husbandry practices. This book will provide interesting topics for research which interested readers can take up. The researchers included herein are of utmost significance and bound to provide incredible insights to readers. This book includes contributions of experts and scientists which will provide innovative insights into this field.

**Dominic Fasso**ISBN
978-1-63239-845-1

\$145.00 US

2017

Book Size
7.75"×10.5"256pp.
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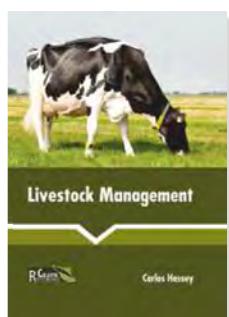
Hardback

Livestock

Animal Husbandry and Biotechnology

Animal husbandry is the art of management and care of farm animals by humans, in which the qualities and behavior are considered to be advantageous to humans. The relationship of animal husbandry and biotechnology is also termed as animal biotechnology by scientists and experts working in this field. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It aims to cover a broad spectrum of topics including the good animal husbandry practices which is beneficial both for animals and for humans. The book is appropriate for students seeking detailed information in this area as well as for experts.

Agricultural Sciences

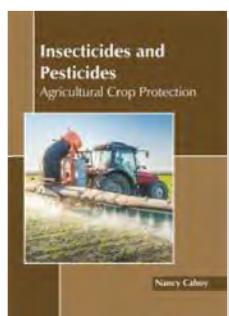


Livestock

Carlos Hassey	ISBN 978-1-63239-780-5	\$140.00 US	2017	Book Size 7.75"×10.5"	240pp. Colored	Hardback
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Livestock Management

Livestock Management is understood as rearing and raising of domesticated animals in an agricultural setting so that the domesticated animals could be used for production of commodities like food, fiber and labor. This book outlines the processes and applications of livestock management in detail. It unfolds the innovative aspects of animal rearing and farming practices which are closely related to livestock management in an interesting manner. Different approaches, evaluations, methodologies and advanced studies on Livestock Management have been included in this elaborate book. It is an important and an invaluable source of information for professionals and researchers in the field.

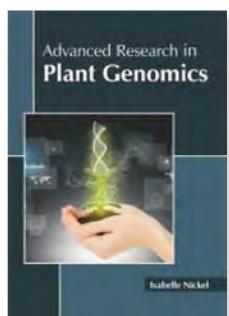


Plant Pathology

Nancy Cahoy	ISBN 978-1-63239-794-2	\$142.00 US	2017	Book Size 8.5"×11"	243pp. Colored	Hardback
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Insecticides and Pesticides: Agricultural Crop Protection

Agricultural crop protection is the method of managing plant diseases, weeds and other pests that affect the agricultural cultivation and forestry. Insecticides and pesticides are an important component of this field of study. This book elucidates new techniques and their applications in a multidisciplinary approach and also discusses the various techniques that are involved in crop protection like biological pest control, barrier based approaches, biotechnology based approaches, etc. It not only sheds light on the different techniques and strategies of crop production but also focuses on its effects on the plant and human health making it a comprehensive text. This book includes contributions of experts and scientists which will provide innovative insights into this field.

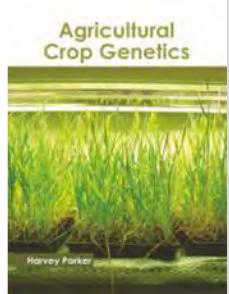


Genetics

Isabelle Nickel	ISBN 978-1-63239-800-0	\$142.00 US	2017	Book Size 8.5"×11"	245pp. Colored	Hardback
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Advanced Research in Plant Genomics

Plant genomics is the study of plant genes and their characteristics. It encompasses the study of plant genomes and examines the genes necessary for mutations. It also comprises the study of plant breeding, genetic modification, DNA sequencing, etc. This book discusses the fundamentals as well as modern approaches of plant genomics. It provides interesting topics for research which readers can take up. Different evaluations, methodologies and advanced studies on plant genomics have been included in the text. Students, researchers, experts and all associated with this area will benefit alike from this book. It will serve as a valuable resources guide for the readers.



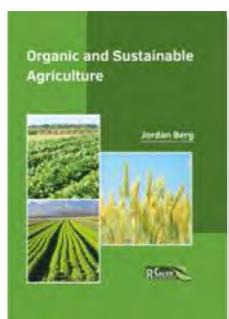
Genetics

Harvey Parker	ISBN 978-1-63239-802-4	\$150.00 US	2017	Book Size 8.5"×11"	265pp. Colored	Hardback
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Agricultural Crop Genetics

Agricultural crop genetics is the study of crop heredity and inherited characteristics among agricultural crop. There is an impressive history of crop modification in the past three decades and this book on agricultural crop genetics deals with advanced practices in this area. Recent studies in plant biology have focused on disease-resistant crops, high-yield varieties and conditions of tissue culture. Inter-disciplinary research in fields such as plant genetics, and evolutionary genetics has also contributed much to this field. Some of the diverse topics covered in this book address the varied branches that fall under this category. This brings forth some of the most innovative concepts and elucidates the unexplored aspects of crop genetics. For all readers who are interested in the field of crop genetics, the case studies included in this book will serve as an excellent guide to develop comprehensive understanding.

Agricultural Sciences



Jordan Berg

ISBN
978-1-63239-782-9

\$130.00 US

2017

Book Size
8.5"×11"

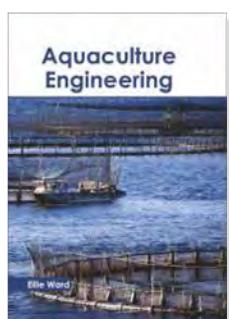
220pp.
Colored

Hardback

Sustainability

Organic and Sustainable Agriculture

Organic and Sustainable Agriculture aim to replace the current agricultural practices with more environment-friendly practices. This involves avoiding the use of chemical products and using organic fertilizers such as compost or green manure. This book attempts to understand the multiple branches that fall under the discipline of organic and sustainable agriculture and how such concepts have practical applications while understanding the long-term perspectives of the topics, the book makes an effort and highlighting their impact as a modern tool for the progress of the field. This text will serve as a reference to a broad spectrum of readers including agronomists, botanists, researchers, professionals and students engaged in the field of agriculture at various levels.



Ellie Ward

ISBN
978-1-63239-855-0

\$142.00 US

2017

Book Size
8.5"×11"

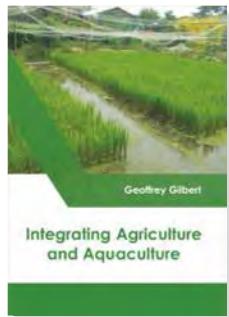
243pp.
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Hardback

Fisheries

Aquaculture Engineering

Aquaculture engineering is an emerging field of study. It aims to device new and sustainable techniques for aquaculture and its management. Some of the most widely practiced forms of aquaculture include fish farming, mariculture, shrimp farming, etc. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of aquaculture engineering. Some of the diverse topics covered in this book address the varied branches that fall under this category. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of aquaculture engineering. Students, researchers, professionals, experts and anyone else associated with this field will benefit alike from this book. It aims to serve as a resource guide to a broad spectrum of readers and contribute to the growth of aquaculture engineering.



Geoffrey Gilbert

ISBN
978-1-63239-877-2

\$130.00 US

2017

Book Size
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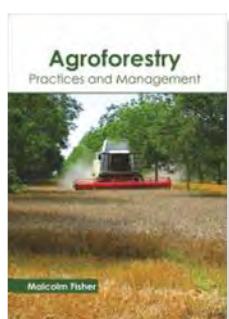
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Fisheries

Integrating Agriculture and Aquaculture

Aquaculture is the cultivation and harvesting of marine organisms under controlled conditions for commercial purposes. This book on integrated agriculture and aquaculture talks about landscape and cultivation practices that serve to improve aquaculture and marine harvesting. Biological pest control mechanisms are another area of great importance for maintaining healthy yield. Farming of aquatic fish is sometimes complemented with other organisms such as crustaceans, molluscs and algae. It picks up individual branches and explains their need and contribution in the context of a growing economy. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of aquaculture. It will serve as a valuable source of reference for graduate and post graduate students.



Malcolm Fisher

ISBN
978-1-63239-795-9

\$127.00 US

2017

Book Size
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209pp.
Colored

Hardback

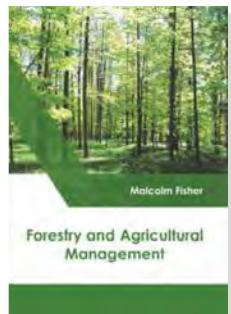
Forestry

Agroforestry: Practices and Management

Agroforestry is a step towards sustainable development. It aims at optimizing productivity and profitability by unifying agricultural shrubs or trees with forestry techniques. This book provides comprehensive insights into the field of agroforestry and outlines its processes and applications in detail. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. Those in search of information to further their knowledge will be greatly assisted by this book. This book aims to equip students and experts with the advanced topics and upcoming concepts in the area of agroforestry.

Agricultural Sciences

Forestry



Malcolm Fisher

ISBN
978-1-63239-878-9

\$142.00 US

2017

Book Size
8.5"×11"

241pp.
Colored

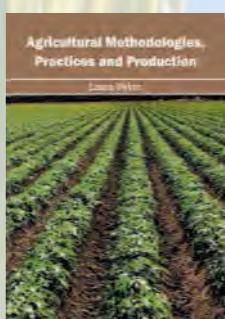
Hardback

Forestry and Agricultural Management

This book on forestry and agricultural management talks about methodological practices followed in pastures and cropland for the cultivation of trees, shrubs and plants. Methods employed in this field follow traditional as well as modern land-use management systems. Agroforestry allows for rearing of animals alongside crop cultivation and forest maintenance. The contents included in this text deal with the advanced concepts that promote forest cultivation and conservation. The aim of this book is to present researches that have transformed this discipline and aided its advancement. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It is appropriate for students seeking detailed information in this area as well as for experts.



Agricultural Sciences

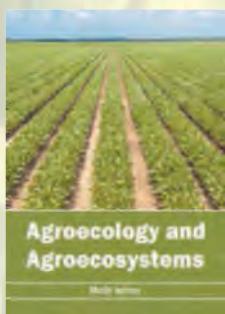


Agricultural Sciences

Laura Vivian	ISBN 978-1-63239-654-9	\$150.00 US	2016	Book Size 8.5"x11"	267pp. Colored	Hardback
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Agricultural Methodologies, Practices and Production

Agriculture is a vast field of study that focuses on cultivating, harvesting and storage of food grains and other plant species of economic importance. This discipline has evolved over time to create a scope for animal farming as well. As the climatic conditions as well as soil health have changed, many subfields of agriculture have come into existence such as organic farming, agronomy, agrochemicals, plant breeding, etc. This book covers a wide range of topics such as soil sealing, sustainability assessment, biological degradation, soil quality, differentially-expressed genes, etc. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this area. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals. It will serve as an essential guide for anyone who wants to delve deeper into the methods and practices of agriculture.

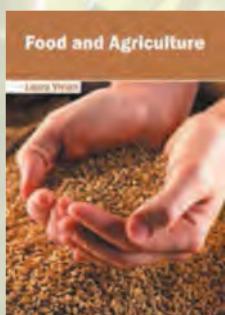


Agricultural Sciences

Molly Ismay	ISBN 978-1-63239-678-5	\$155.00 US	2016	Book Size 8.5"x11"	290pp. Colored	Hardback
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Agroecology and Agroecosystems

Agroecology studies the processes related to agriculture in an ecological system whereas agroecosystem is the fundamental unit of it. These systems are not limited to farming but also contain surroundings regions affected by these activities for example forest gardens. This book presents topics of key importance such as agricultural commercialization, climate change, small scale irrigation technologies, biotic and abiotic constraints, seed germination, etc. It also covers in detail some existent theories and innovative concepts revolving around these disciplines. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge. It is a beneficial text for ecologists, environmentalists, agriculturists, professionals and students alike.

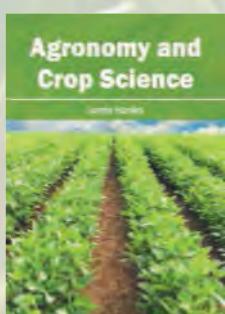


Agricultural Sciences

Laura Vivian	ISBN 978-1-63239-664-8	\$150.00 US	2016	Book Size 8.5"x11"	276pp. Colored	Hardback
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Food and Agriculture

This book contains some path-breaking studies in the fields of food and agriculture. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impact as a modern tool for the growth of this discipline. Earlier only traditional methods of farming were used but nowadays modern techniques such as agrochemicals, plant breeding, etc. have been employed to increase yield and improve the quality of produce. The aim of this book is to present researches that have transformed this discipline and aided its advancement. Some of the diverse topics covered in this book address the varied branches that fall under this category. The extensive chapters of this book have been contributed by experts from across the globe. This book will serve as a reference to a broad spectrum of readers such as agriculturists, botanists, biologists, academicians and students related with the field of agriculture at various levels.



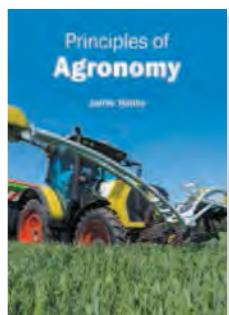
Agronomy

Jamie Hanks	ISBN 978-1-63239-657-0	\$150.00 US	2016	Book Size 8.5"x11"	271pp. Colored	Hardback
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Agronomy and Crop Science

Agronomy is the field of science that takes into account a more holistic and integrated view of the agriculture and all the important fields related to it. It encompasses soil classification, crop rotation, irrigation and drainage, plant physiology, plant breeding, soil fertility, weed control, insect and pest control. Crop science on the other hand focuses on the effects of drought, water use efficiency, effect of temperatures on crops, mineral deficiency and toxicity stress and to reduce them. These are overlapping fields as they both concentrate on crops. This book attempts to understand the multiple branches that fall under the disciplines of agronomy and crop science and how such concepts have practical applications. The various studies that are constantly contributing towards advancing technologies and evolution of these fields are examined in detail. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It will help the readers in keeping pace with the rapid changes in this field. It will serve as a reference to a broad spectrum of readers.

Agricultural Sciences

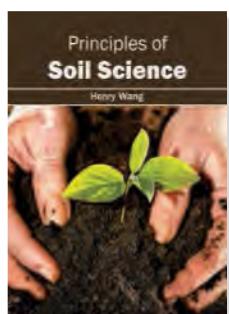


Agronomy

Jamie Hanks	ISBN 978-1-63239-640-2	\$145.00 US	2016	Book Size 8.5"x11"	249pp. Colored	Hardback
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Principles of Agronomy

This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of agronomy. It tries to understand the properties and interactions of soil and plants and is a combination of ecology, earth science, genetics, biology, chemistry, and economics. Plant physiology, soil classification, soil fertility, crop rotation, irrigation and drainage, plant breeding, pest control, insect and weed control are among the list of areas covered under this field. This discipline plays a crucial role in ensuring food security, soil health, sustainability of agricultural resources and improving nutritional value of already existing food crops. The various sub-fields of agronomy along with the technological progress that have future implications are glanced at in this book. It collated the researches of veterans from across the globe to unravel the unexplored aspects of this subject. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject. It will prove to be a beneficial source of knowledge for agronomists, agriculturists, environmentalists, researchers and students alike.

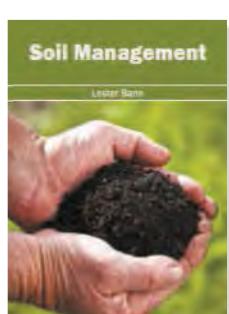


Soil Science

Henry Wang	ISBN 978-1-63239-703-4	\$155.00 US	2016	Book Size 8.5"x11"	297pp. Colored	Hardback
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Principles of Soil Science

Soil is one of the many natural resources present in abundance and variety. Soil science deals with the structure, composition, mapping and classification of soils all over the globe. The environmentalists and soil scientists are trying hard to preserve the quality of soils and arable lands. This book provides an extensive analysis on a wide array of topics such as nutrient management, water management, wetlands, sensitive and unstable soils, manure, contamination and soil conservation, etc. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of soil science. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study. It will serve as a reference guide for soil scientists, geologists, environmentalists, ecologists, researchers, professionals and students involved with the field of soil science at various levels.

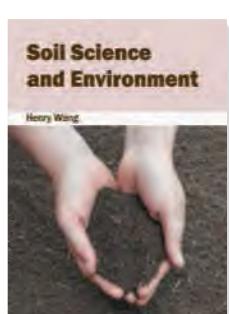


Soil Science

Lester Bane	ISBN 978-1-63239-771-3	\$155.00 US	2016	Book Size 8.5"x11"	293pp. Colored	Hardback
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Soil Management

Soil is the basic requirement for agriculture as it stores nutrients and water. Soil management is concerned with the protection of soil and its enhancement. It includes topics such as soil chemistry, soil ecology, soil microbiology, soil fertility, soil improvement studies, etc. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the field of soil management. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It will serve as a vital tool for all researching and studying this field as it offers new insights into soil management.



Soil Science

Henry Wang	ISBN 978-1-63239-625-9	\$132.00 US	2016	Book Size 8.5"x11"	210pp. Colored	Hardback
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Soil Science and Environment

Soil science studies in detail all the properties of soil like biological, physical, and chemical properties, as well as soil formation. Different soils have their own unique properties which affect the type of agricultural as well as other activities that can be performed on them. This book consists of contributions made by international experts in this area. Also included in it is a detailed explanation of the various uses and management techniques of different types of soils. It will serve as a valuable source of reference for agronomists, geologists, ecologists, scientists and students. Those in search of information to further their knowledge will be greatly assisted by this book.

Agricultural Sciences

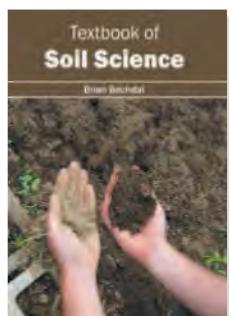


Soil Science

Brian Bechdal	ISBN 978-1-63239-712-6	\$155.00 US	2016	Book Size 8.5"x11"	294pp. Colored	Hardback
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Soil: Science and Technology

This book outlines the processes and applications of soil science in detail. It further elucidates the concepts studied and practiced in this field. Soil science refers to the study of soil as a natural resource. It talks about the categorization and composition of soil and about the various properties related with it. This book unravels the recent studies in the field. It also provides interesting topics for research which interested readers can take up. With state-of-the-art inputs by experts from across the globe, this book aims to provide an in-depth understanding of the subject. This book is an essential guide for both academicians and those who wish to pursue soil science further.

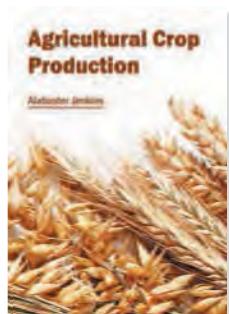


Soil Science

Brian Bechdal	ISBN 978-1-63239-686-0	\$150.00 US	2016	Book Size 8.5"x11"	272pp. Colored	Hardback
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Textbook of Soil Science

Soil science is the study of soil as a resource of earth. It deals with studying the various concepts and properties related with formation and classification of soil. It also encapsulates the study of management of soil. Some branches of soil science like pedology and edaphology are also glanced at in this book. The study of soil has raised awareness about soil preservation and its optimum utilization. This book presents researches and studies performed by experts across the globe. The topics covered in this book offer the readers new insights in the field of soil science. It will help new researchers by foregrounding their knowledge in this field along with providing interesting topics for further research.

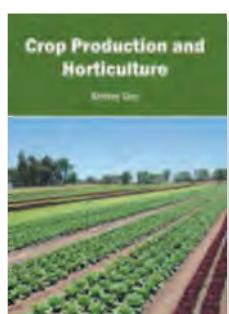


Crops

Alabaster Jenkins	ISBN 978-1-63239-661-7	\$145.00 US	2016	Book Size 8.5"x11"	248pp. Colored	Hardback
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Agricultural Crop Production

Agriculture is the pillar of human existence as it provides us with food, timber, fibre, etc. Crop production is the branch of agriculture which specifically deals with growing plants to convert them into usable items such as food, clothing, medicine, etc. This book traces the progress of this field and highlights some of its key concepts and applications. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. The topics covered in this book offer the readers new insights in the area of agricultural crop production. It will prove to be a valuable source of reference for agriculturists, environmentalist, researchers and students alike.



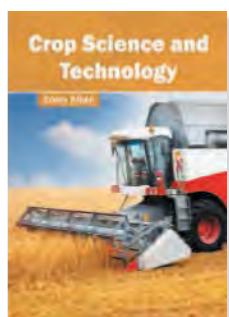
Crops

Shirley Doy	ISBN 978-1-63239-683-9	\$155.00 US	2016	Book Size 8.5"x11"	293pp. Colored	Hardback
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Crop Production and Horticulture

Crop production and horticulture are interrelated disciplines focused on harvesting plants or crops for food, fuel, medicine, or other commercial uses. Recent advances in the field of agriculture have resulted in advancement and expansion of these fields. This book discusses the current methods and techniques for cultivation of plants. The researches included in this book have been contributed by an international group of authors which are bound to provide incredible insights to the readers. It is a beneficial text for agriculturists, horticulturists, professionals and students engaged in these fields.

Agricultural Sciences



Corey Aiken

ISBN
978-1-63239-631-0

\$140.00 US

2016

Book Size
8.5"x11"

222pp.
Colored

Crops

Hardback

Crop Science and Technology

This book discusses the fundamentals as well as modern approaches of crop science and technology. It elucidates the key concepts and other innovative aspects related to this field. Crop Science deals with assortment and cultivation of crops. It also incorporates development and analysis of the production methods, techniques for improving quality, methods to reduce usage of pesticides and other harmful chemicals. Most of the topics introduced in this book cover new techniques and applications in the field of crop science. It will prove to be a valuable asset for readers who are interested in this field. It aims to serve as a resource guide for students and experts alike and contribute to the growth of this area.



Kiara Woods

ISBN
978-1-63239-688-4

\$155.00 US

2016

Book Size
8.5"x11"

295pp.
Colored

Botany and Plant Science

Hardback

Botany: Biology and Technology of Plants

Plants have been a focus of research for scientists across the globe. Botany is the branch of biology that deals with the study of the varied species of plants. It mainly focuses on plant growth, structure, reproduction, evolutionary relationships, systematics, biochemistry and primary metabolism, diseases, plant taxonomy, etc. This discipline has wide variety of applications such as plant breeding, propagation, forestry, etc. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of this discipline. Different approaches, evaluations, methodologies and advanced studies in the area of botany have been included in this book. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have also been discussed in this text. It will serve as a valuable source of reference for graduate and post graduate students.



Harvey Parker

ISBN
978-1-63239-641-9

\$145.00 US

2016

Book Size
8.5"x11"

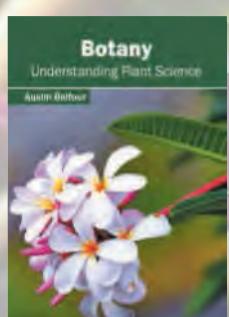
259pp.
Colored

Botany and Plant Science

Hardback

Botany: Fundamentals, Advances and Applications

This book is a compilation of chapters that discuss the most vital concepts and emerging trends in botany. It aims to shed light on some of the unexplored aspects and the recent researches in this field. Botany is amongst the oldest existing sciences. It studies all the species of plants from fungi, algae to flowering ones and has applications in large number of fields such as horticulture, agriculture, forestry, breeding, plant propagation, plant structure, etc. For all the readers who are interested in this discipline, the studies included in this book will help to develop a comprehensive understanding.



Austin Balfour

ISBN
978-1-63239-706-5

\$155.00 US

2016

Book Size
8.5"x11"

298pp.
Colored

Botany and Plant Science

Hardback

Botany: Understanding Plant Science

This book includes some of the vital pieces of work being conducted across the world on various aspects related to botany. It strives to provide a fair idea about this subject and to help develop a better understanding of the latest advances within this field. Botany is a broad discipline which encompasses the entire plant kingdom. It generally studies interactions of plants with other organisms and also includes discovery of new species. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts. Through this book, we attempt to further enlighten the readers about the new concepts in this field. It is an essential guide for both academicians and those who wish to pursue this discipline further.

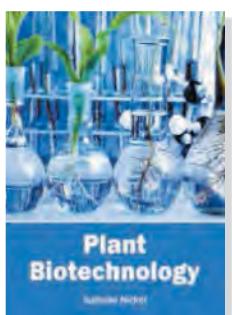
Agricultural Sciences



Botany and Plant Science						
Clive Koelling	ISBN 978-1-63239-693-8	\$155.00 US	2016	Book Size 8.5"x11"	295pp. Colored	Hardback

Current Progress in Plant Science

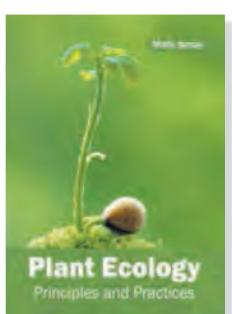
Plant Science, also called botany or plant biology, refers to the scientific study of plants. This field includes the study of the smallest of plants like algae, fungi to the largest in this category like trees. The main aim of botany is to improve the supply of various plant products like medicines, foods, fibres, building materials, etc. and to manage wilderness. There are many sub-fields of plant biology like anatomy which refers to study of cells and tissues of plants, ecology which is the study of plant and their relation with environment, paleobotany which is the study of evolution of fossil plants, biophysics which refers to the study of physical aspects of plant life processes, etc. This book unravels the recent studies in the field of plant science by presenting the researches conducted by international experts. It will also provide interesting topics for research that readers can take up. This book will provide in-depth knowledge of this topic and its sub-fields. It will elucidate the new technologies and concepts related to this area. It will serve as a reference guide to broad spectrum of readers including botanists, environmentalists, ecologists, researchers and students associated with this field.



Botany and Plant Science						
Isabelle Nickel	ISBN 978-1-63239-728-7	\$155.00 US	2016	Book Size 8.5"x11"	304pp. Colored	Hardback

Plant Biotechnology

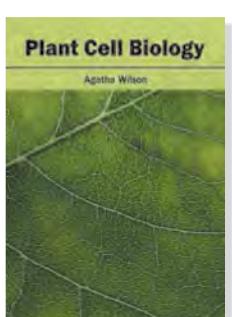
Changing times and environmental patterns have pushed humankind to search for a better gene even in the case of plants. The very thought of getting the desired characteristics led to the birth of a new discipline called plant biotechnology. Scientists have been breeding plants to increase yields, improve the overall quality, and minimize the harmful characteristics in crops for many years. In the last decade, plant breeders have been able to introduce beneficial traits in plants more precisely using a variety of techniques developed under the field of plant biotechnology. This book helps readers to understand the advances in this discipline by providing the most up-to-date data and researches from across the globe. With state-of-the-art inputs by acclaimed experts of this field, it targets students and professionals alike.



Botany and Plant Science						
Molly Ismay	ISBN 978-1-63239-659-4	\$150.00 US	2016	Book Size 8.5"x11"	275pp. Colored	Hardback

Plant Ecology: Principles and Practices

Ecology is the science which deals with the relation of an organism to its surrounding environment that is, every condition required for its existence. Plant ecology can be further divided into plant ecophysiology, landscape, ecology, plant population ecology, etc. It covers both, basic science and applied science and focuses on water, carbon, and nutrient cycling; physical stress; plant functional traits; and trait diversity, covering ecosystem effects and functional growth analysis in an environmental context. This book presents researches and studies performed by experts across the globe. It contains some path-breaking studies in the field of plant ecology. This book includes contributions of experts and scientists which will provide innovative insights into the subject. It will prove to be immensely beneficial for ecologists, botanists, agriculturists, environmentalists, researchers and students alike.

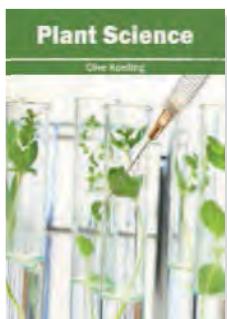


Botany and Plant Science						
Agatha Wilson	ISBN 978-1-63239-679-2	\$155.00 US	2016	Book Size 8.5"x11"	291pp. Colored	Hardback

Plant Cell Biology

Cell biology studies the structure and function of cells. It has many branches but plant cell biology is particularly important because plants are the only organisms that are capable of preparing their own food. Plant cells significantly differ from animal cells in a lot of aspects such as, they are larger in size; in addition to this plant cells contain chloroplast, cell walls, and vacuoles. Due to technological advancements in microscopy, the research in this field has been revolutionised. This book strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances in this field. While understanding the long-term perspectives of these topics, this book makes an effort in highlighting their impact as a modern tool for the growth of the field.

Agricultural Sciences

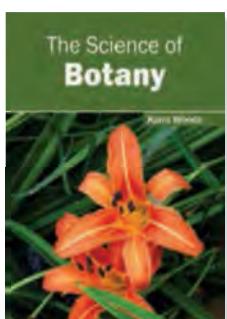


Botany and Plant Science

Clive Koelling	ISBN 978-1-63239-662-4	\$150.00 US	2016	Book Size 8.5"x11"	274pp. Colored	Hardback
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Plant Science

Plants are the earliest living species on earth and are reason for the existence of almost all life forms. Most of the resources used by human beings and other living organisms are derived from different varieties of plants. Plant science is an umbrella discipline that studies the development, reproduction, evolution, interaction and uses of plants. This book discusses some of the topics of prime importance such as plant breeding, plant cytogenetics, cytology, plant ecology, plant genetic resources and databases, plant genetics, plant genomes, bioinformatics and genomics, etc. It is a valuable compilation of topics, ranging from the basic to the most complex advancements in the area of plant science. For all readers who are interested in this field, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding.

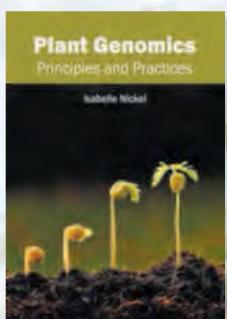


Botany and Plant Science

Kiara Woods	ISBN 978-1-63239-720-1	\$155.00 US	2016	Book Size 8.5"x11"	302pp. Colored	Hardback
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The Science of Botany

Botany refers to the branch of science that deals with the study of plants. It is an extensive research based study of plant biology. Some of the techniques included in this vast field are live cell imaging, optical microscopy, electron microscopy, etc. This book will provide detailed analysis and data about this subject. It attempts to understand the multiple branches that fall under the discipline of botany and gives detailed information about them. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in this field. Students and scientists actively engaged in this field will find this book full of crucial and unexplored concepts. It will also serve as a beneficial source of reference for botanists, agriculturists and professionals associated with this field.



Genetics

Isabelle Nickel	ISBN 978-1-63239-718-8	\$155.00 US	2016	Book Size 8.5"x11"	299pp. Colored	Hardback
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Plant Genomics: Principles and Practices

Plant genomics is the branch of science which studies the function and structure of genomes. This field mainly deals with DNA sequencing and genetic mapping. As a field of study, it is progressing at a rapid pace. This book provides comprehensive insights into this subject. Some of the topics discussed in this book focus on the recent advancements made in the area of plant genomics. It is an essential guide for the professionals related to this branch. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject. This book presents the latest researches from all parts of the world to keep the readers updated with the current status of this field.



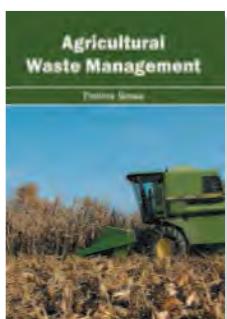
Sustainability

Thelma Bosso	ISBN 978-1-63239-724-9	\$155.00 US	2016	Book Size 8.5"x11"	302pp. Colored	Hardback
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Agricultural Sustainability: Waste Management Techniques

Agricultural sustainability deals with adopting those processes and techniques that would improve and maintain all the resources involved in agriculture. Farming and agricultural practices have changed over time, and added to increased production and better economic returns. But these techniques had their fair share of condemnations in relation to depletion of top layer soil, over use of fertilizers and pesticides, quality degradation, water contamination, and reduction in arable land. This book contains some path-breaking studies in the field of agricultural sustainability. The concepts included herein are of utmost significance and bound to provide incredible insights to readers. While understanding the long-term perspectives of the topics, this book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. It will prove to be immensely beneficial for students and researchers in this field.

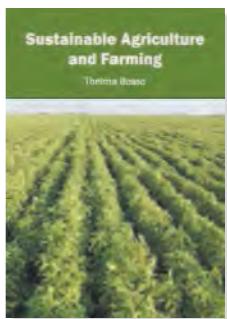
Agricultural Sciences



Sustainability					
Thelma Bosso	ISBN 978-1-63239-715-7	\$155.00 US	2016	Book Size 8.5"x11"	300pp. Colored Hardback

Agricultural Waste Management

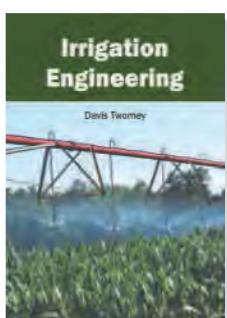
Agricultural waste refers to the waste produced by various agricultural activities. It can include both organic waste, like unwanted produce, manure, etc; and inorganic waste like excess pesticides, agrochemicals, silage, waste from machineries like oil, grease, etc. Agricultural waste has become a growing concern for environmentalists. Thus, its management has become a priority. Agriculture waste management insures that the things used for agricultural activities are recycled, reused and the use of non-biodegradable waste is reduced. This book will elucidate the various concepts and theories to manage agricultural waste and provide case studies to comprehend the usefulness of their applications. The topics covered here in will offer readers new insights in this field. It is an essential guide for agriculturists, environmentalists, ecologists and those who wish to pursue this discipline further.



Sustainability					
Thelma Bosso	ISBN 978-1-63239-729-4	\$155.00 US	2016	Book Size 8.5"x11"	301pp. Colored Hardback

Sustainable Agriculture and Farming

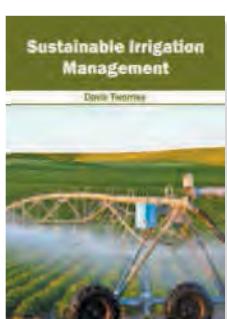
This book outlines the processes and applications of sustainable agriculture and farming in detail. It will unfold the innovative aspects of this area. As a practice of farming, sustainable agriculture refers to the use of natural resources to produce crops in such a way that it has minimal negative effects on the environment and yet, is able to produce good quality crops and livestock. It incorporates techniques like crop rotation, soil enrichment, cover crops, soil management, etc. to maximize produce in a harmless way. It works towards minimizing the use of pesticides, insecticides, fertilizers, to reduce the wastage of water, limit the use of non-renewable energy, etc. This text will talk in detail about the various techniques and concepts related to this area. From theories to research to practical applications, case studies related to all contemporary topics of relevance to sustainable agriculture have been included in this book. It will provide in-depth knowledge about the new advances being made in this field. Researchers and students in this field will be greatly assisted by this book.



Water Management					
Davis Twomey	ISBN 978-1-63239-766-9	\$140.00 US	2016	Book Size 8.5"x11"	226pp. Colored Hardback

Irrigation Engineering

Irrigation is the artificial employment of water to soil or land. Irrigation engineering mainly deals with drains, canal, barrage, dams and corresponding systems employed for the similar purposes. There are different types of irrigation systems present worldwide such as drip irrigation, sprinkler systems, localized irrigation, surface irrigation, in-ground irrigation, etc. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. It aims to shed light on some of the unexplored aspects of irrigation engineering and the recent researches revolving around it. This book elucidates the concepts and innovative models around prospective developments with respect to irrigation engineering. The readers would gain knowledge that would broaden their perspective about this field.

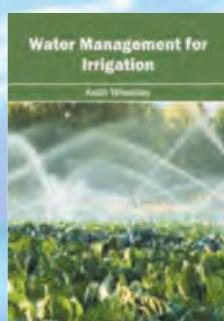


Water Management					
Davis Twomey	ISBN 978-1-63239-765-2	\$140.00 US	2016	Book Size 8.5"x11"	228pp. Colored Hardback

Sustainable Irrigation Management

This book explores all the important aspects of irrigation management in the present day scenario. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Irrigation management refers to the practice of using water while farming in an efficient and optimum way. It deals with minimizing the wastage of water and managing it in such a manner that it is available in dry areas and when rainfall is scarce. This book will discuss the various types and branches of irrigation management. It unfolds some innovative aspects of irrigation which will be crucial for the progress of agriculture in the future. Most of the topics introduced in this book cover new techniques and the applications of this area. This text will serve as a reference to a broad spectrum of readers.

Agricultural Sciences



Water Management

Keith Wheatley	ISBN 978-1-63239-768-3	\$150.00 US	2016	Book Size 8.5"x11"	262pp. Colored	Hardback
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Water Management for Irrigation

This book provides comprehensive insights into the field of water management with respect to irrigation. Irrigation refers to the practice of using and distributing water via artificial sources for maximum healthy produce. It is especially done in the areas which witness low rainfall and have scarce water facilities to ensure better crop production. Fresh water being a scant resource makes water management an essential practice. Therefore, water management while irrigating crops becomes a necessity. This book will discuss in detail the various techniques applied to minimize water wastage and pollution while irrigation. It will also give detailed information about the varied theories related to this field. Those with an interest and an eye for detail, will find this text full of crucial information. It will serve as a beneficial guide for students, researchers, farmers, environmentalists and others interested in this subject.



Fisheries

Roger Creed	ISBN 978-1-63239-658-7	\$150.00 US	2016	Book Size 8.5"x11"	274pp. Colored	Hardback
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Fisheries Management

This book aims to shed light on some of the unexplored aspects of fisheries management and the recent researches in this field. This discipline generally deals with the harvesting and breeding of fishes. It tries to keep a sustainable balance between the exploitation and replenishment. This balance is necessary for maintaining the aquatic ecosystems. Aquaculture, ecology, food science and technology, molecular biology, nutrition, physiology, and water quality are some of the topics explained in this book. For all readers who are interested in this area of study, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding. It will prove to be immensely beneficial to students and researchers in this field.

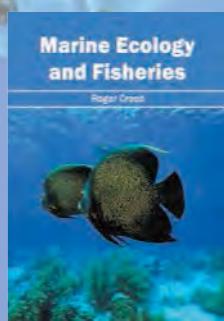


Fisheries

Simon Oakenfold	ISBN 978-1-63239-752-2	\$150.00 US	2016	Book Size 8.5"x11"	271pp. Colored	Hardback
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Fisheries Management and Conservation

Fisheries management is mainly concerned with protecting and managing fishery resources to maintain a balance between exploitation and replenishment. This subject heavily draws upon fisheries science which is a multidisciplinary field that combines oceanography, freshwater biology, conservation, population dynamics, management and economics to present a coherent status of fisheries. This book attempts to assist those with a goal of delving into the field of fisheries management and conservation. It attempts to further enlighten the readers about the new concepts in this field. Some of the diverse topics covered in this book address the varied branches that fall under this discipline. It will prove to be an asset to agriculturists, oceanographers, marine biologists, professionals, researchers and students associated with the field of fisheries at various levels.

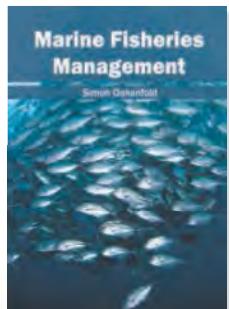


Fisheries

Roger Creed	ISBN 978-1-63239-700-3	\$155.00 US	2016	Book Size 8.5"x11"	297pp. Colored	Hardback
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Marine Ecology and Fisheries

This book unravels the recent studies in the field of marine ecology. It aims to give a thorough view of the different areas of this field. Marine Ecology is a part of the vast aquatic ecosystem present on Earth. It consists of salt marshes, estuaries, lagoons, water animals, etc. Fisheries science is a complex study of the life and habitat of fishes. Thus, is co-related with marine ecology. This book attempts to understand the multiple branches that fall under this discipline and how such concepts can be used to flourish the aquatic ecosystem. It is designed to provide readers with the latest advances made in this subject. This book aims to shed light on some of the unexplored aspects of marine ecology and fisheries, and present the recent researches in this discipline. Students, researchers, experts and all associated with this field will benefit alike from this book.



Simon Oakenfold

ISBN
978-1-63239-755-3

\$150.00 US

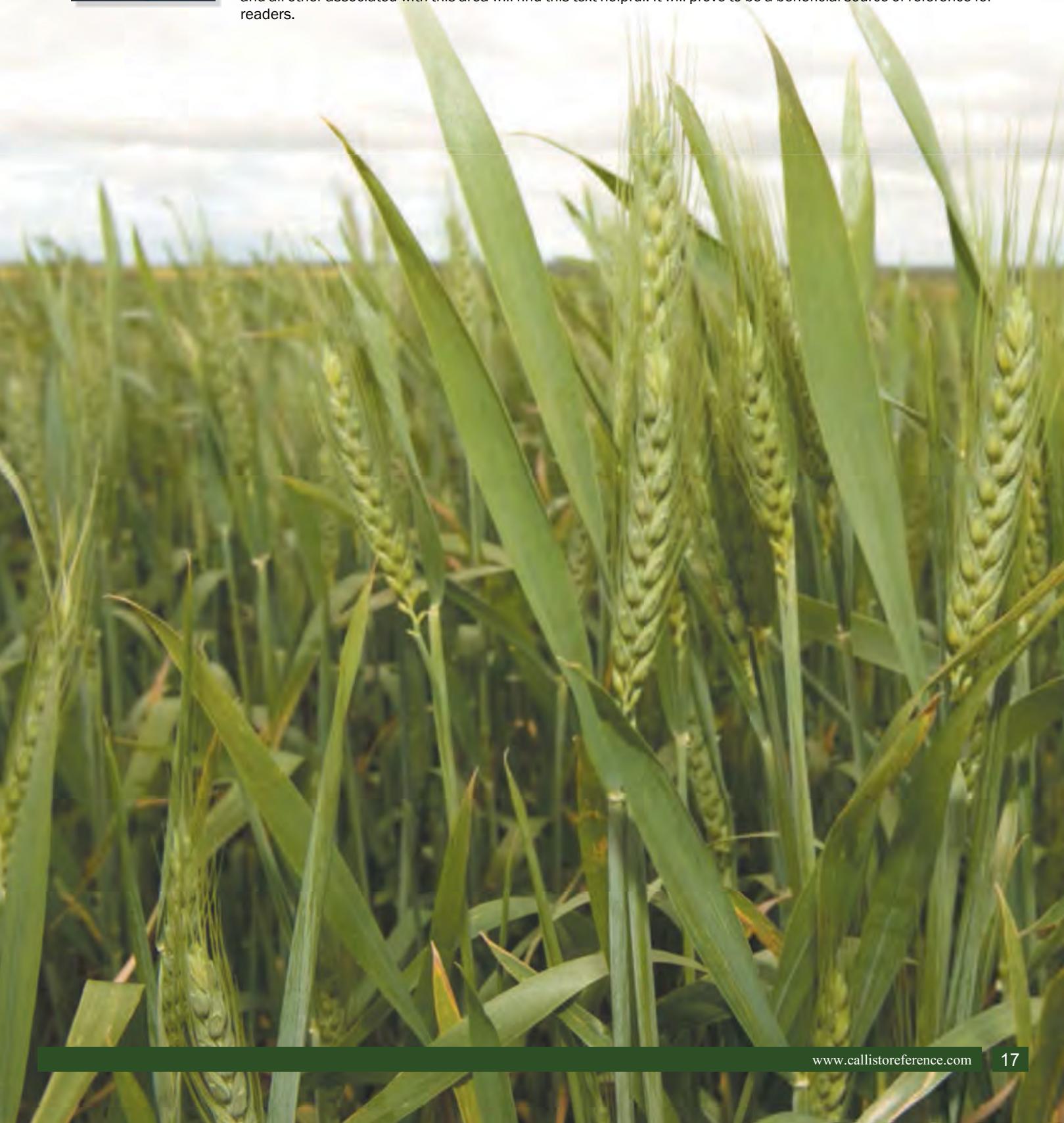
2016

Book Size
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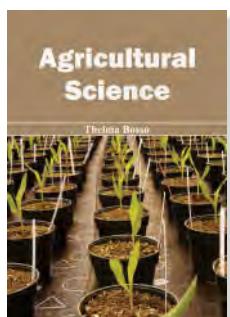
Hardback

Marine Fisheries Management

Marine fisheries management refers to the practice of using fisheries science in order to protect the marine ecosystem, especially fishes. It aims to device methods to sustainably harvest fishes along with minimizing exploitation of the natural resources involved in the process. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of marine fisheries management. It presents this complex subject in the most comprehensive and easy to understand language. Students, researchers, marine biologists, aquaculturists, and all other associated with this area will find this text helpful. It will prove to be a beneficial source of reference for readers.



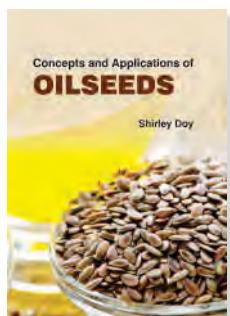
Agricultural Sciences



Agricultural Sciences						
Thelma Bosso	ISBN 978-1-63239-058-5	\$120.00 US	2015	Book Size 6"x9"	264pp. Colored	Hardback

Agricultural Science

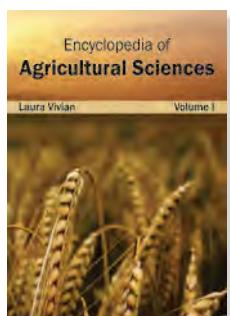
Agricultural science involves the integrative study of various aspects of agriculture including crop production, economic impact, soil fertility and sustainability. This book discusses important areas in agricultural science, such as crop enhancement, production, response to water, nutrients, and temperature, crop protection, agriculture and human health, and animal nutrition. The topics discussed by the authors involve manipulation of the variables and genetic resources of inheritance of quantitative genes, crop rotation, soil water and nitrogen, and impact of temperature on flowering. Other topics covered include safeguarding crops against insect pests and diseases, associating agriculture topography to recreation by humans, and small ruminant nutrition. This book will be a worthy addition to existing knowledge database and will be particularly useful for university students and professionals in the field of agriculture.



Agricultural Sciences						
Shirley Doy	ISBN 978-1-63239-119-3	\$90.00 US	2015	Book Size 6"x9"	196pp. Colored	Hardback

Concepts and Applications of Oilseeds

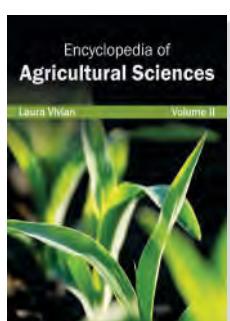
The various concepts and applications of oilseeds are elucidated in this profound book. It has been compiled with the objective of providing in-depth information on the extensive topic of oilseeds. It consists of descriptive accounts on oil presses and oilseed pests with comprehensive information about sesame seeds. The book discusses a wide spectrum of topics related to oilseeds including a discussion regarding nitrogen efficiency in oilseed rape with emphasis on its physiological mechanism. The book has been compiled with information contributed by researchers and authors from across the globe. The ultimate objective of this book is to serve as a valuable source of reference for researchers, students, and general readers interested in attaining extensive knowledge about oilseeds.



Agricultural Sciences						
Laura Vivian	ISBN 978-1-63239-171-1	\$150.00 US	2015	Book Size 8.5"x11"	218pp. Colored	Hardback

Encyclopedia of Agricultural Sciences: Volume I

Agriculture science is an umbrella science comprising the diversified aspects of agriculture and agronomy. This book elucidates the new techniques and their applications in a multidisciplinary approach to agricultural science. The book presents researches and studies performed by experts across the globe. Students, researchers, experts and all associated with agriculture will benefit alike from this book.

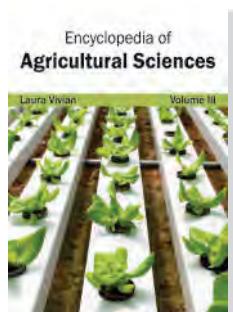


Agricultural Sciences						
Laura Vivian	ISBN 978-1-63239-172-8	\$150.00 US	2015	Book Size 8.5"x11"	218pp. Colored	Hardback

Encyclopedia of Agricultural Sciences: Volume II

Agriculture science is an umbrella science comprising the diversified aspects of agriculture and agronomy. This book elucidates the new techniques and their applications in a multidisciplinary approach to agricultural science. The book presents researches and studies performed by experts across the globe. Students, researchers, experts and all associated with agriculture will benefit alike from this book.

Agricultural Sciences

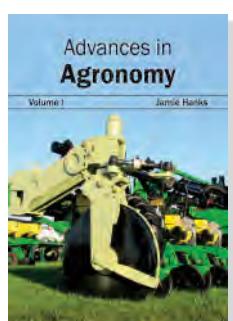


Agricultural Sciences

Laura Vivian	ISBN 978-1-63239-173-5	\$150.00 US	2015	Book Size 8.5"x11"	221pp. Colored	Hardback
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Encyclopedia of Agricultural Sciences: Volume III

Agriculture science is an umbrella science comprising the diversified aspects of agriculture and agronomy. This book elucidates the new techniques and their applications in a multidisciplinary approach to agricultural science. The book presents researches and studies performed by experts across the globe. Students, researchers, experts and all associated with agriculture will benefit alike from this book.

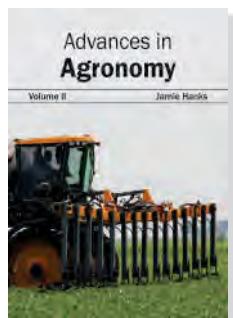


Agronomy

Jamie Hanks	ISBN 978-1-63239-035-6	\$150.00 US	2015	Book Size 8.5"x11"	222pp. Colored	Hardback
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Advances in Agronomy: Volume I

The book studies, analyses and upholds the pillars of agronomy and its utmost significance in the modern times. It picks up individual branches and explains their need and contribution in the context of a growing economy. While understanding the long-term sustainability of each of them, the book makes an effort in highlighting their nature and degree of effectiveness as a modern tool for the growth and prosperity of the future.

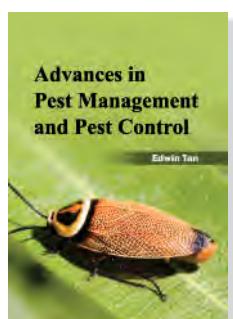


Agronomy

Jamie Hanks	ISBN 978-1-63239-036-3	\$150.00 US	2015	Book Size 8.5"x11"	218pp. Colored	Hardback
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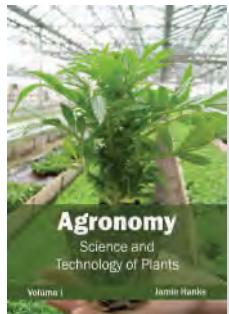
Agronomy

Edwin Tan	ISBN 978-1-63239-052-3	\$140.00 US	2015	Book Size 6"x9"	363pp. Colored	Hardback
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Advances in Pest Management and Pest Control

This book elaborates on the advancements made in pest management and control. Integrated pest management is an efficient and environmentally sensitive approach that depends on an integration of common-sense practices. Its programs employ recent and descriptive information regarding the life cycles of pests and their interplay with the environment. This information, along with the available pest control techniques, is used to manage pest damage by the most economical means and with the least possible hazard to property, people, and the environment. This book discusses approaches related to pest management, current applications and future challenges in pest control.

Agricultural Sciences



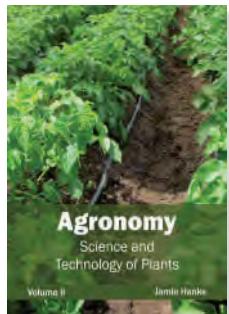
Agronomy

Jamie Hanks	ISBN 978-1-63239-061-5	\$150.00 US	2015	Book Size 8.5"x11"	202pp. Colored	Hardback
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Agronomy: Science and Technology of Plants

Volume I

Agronomy - the science of producing and using plants is an essential and progressing field. This book provides significant information of this discipline to help develop a good understanding of agronomy and related fields. It collates all the researches, studies and projects undertaken in this field. The readers will gain knowledge that would broaden their perspectives about agronomy.



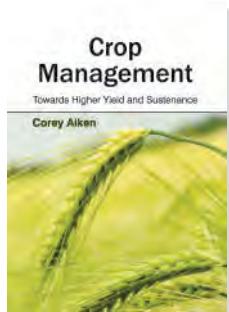
Agronomy

Jamie Hanks	ISBN 978-1-63239-062-2	\$150.00 US	2015	Book Size 8.5"x11"	192pp. Colored	Hardback
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Agronomy: Science and Technology of Plants

Volume II

Agronomy - the science of producing and using plants is an essential and progressing field. This book provides significant information of this discipline to help develop a good understanding of agronomy and related fields. It collates all the researches, studies and projects undertaken in this field. The readers will gain knowledge that would broaden their perspectives about agronomy.

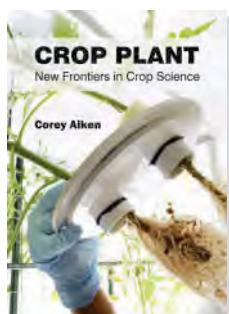


Agronomy

Corey Aiken	ISBN 978-1-63239-131-5	\$80.00 US	2015	Book Size 6"x9"	129pp. Colored	Hardback
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Crop Management: Towards Higher Yield and Sustenance

A broad perspective, encompassing lucid descriptions of crop management towards higher yield and sustenance has been provided to the readers in this book. Agricultural production has a relation with physical problems which may not always be overcome by technology. However, one can see better groomed farms flourishing and consistently making greater profits as compared to similarly structured, neighboring farms under similar conditions. For every abiotic condition, it is well-known that there is a difference between the potential and observed yields, which is generally high and often could be cut down through better management techniques. This book discusses agricultural problems encountered in different regions of the world which were resolved using innovative methods, presenting new approaches for well-known techniques and new tools for old problems.



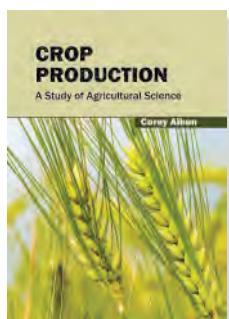
Agronomy

Corey Aiken	ISBN 978-1-63239-132-2	\$120.00 US	2015	Book Size 6"x9"	252pp. Colored	Hardback
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Crop Plant: New Frontiers in Crop Science

New frontiers in crop science are elucidated in this comprehensive book. It provides the readers with a comprehensive overview of Crop Plant with latest advances in research. This book deals with information regarding markers and gen-next sequencing technology and its application. It also describes how silicon can be utilized for drought tolerance. The major problem of rising CO₂ and O₃ causing environmental pollution has been addressed in this book along with detailed accounts on the phenomena of RNAi and its application in crop science and review for boron deficiency in soils and how to deal with it for better crops. Information regarding contemporary works underway in the field of crop science has also been presented in this book making it a wholesome read for those interested in crop management and agricultural science.

Agricultural Sciences

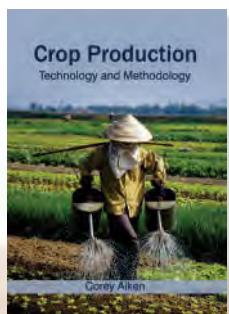


Agronomy

Corey Aiken	ISBN 978-1-63239-133-9	\$90.00 US	2015	Book Size 6"x9"	199pp. Colored	Hardback
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Crop Production: A Study of Agricultural Science

Crop production has always been of quintessence for human civilization. Human beings have always been largely dependent on crops to secure food and fiber. Lately, even fuel has become an essential product derived from crops. There has been a steep rise in the need for crop production in recent times, driven by growing population and changing consumption habits. The purpose of this book is to present the upcoming challenges, advances and future prospects of crop production. It covers extensive subjects like latest agronomic practices to increase productivity, rise of difficulties posed by climatic changes, improvement in use of water resources, usage of fertilizers, etc. This text is ideal for students and experts interested in sustainable crop yield.

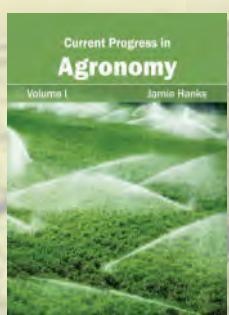


Agronomy

Corey Aiken	ISBN 978-1-63239-134-6	\$120.00 US	2015	Book Size 6"x9"	288pp. Colored	Hardback
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Crop Production: Technology and Methodology

This book presents a comprehensive study of Crop Production, elucidating its technology as well as methodology. Crop production depends on the proper implementation of soil, water and nutrient management technologies. Food production must be increased by around 50 percent by 2020 to satisfy the needs of the then population of nearly 8 billion. Much of the increase would have to come from amplification of agricultural production. Significance of wise consumption of water, nutrient regulation and tillage in the agricultural sector for sustainable agricultural growth and regulating environmental degradation calls for immediate attention of researchers, planners, and policy makers. Crop models enable researchers to swiftly investigate on the long-term consequences of changes in agricultural practices. This book presents an interdisciplinary approach and contributes to this new vision. Leading authors have analyzed topics related to crop production technologies in this book. Emphasis has been laid on general descriptions and principles of each topic, technical details, original research work, and modeling aspects. This diverse subject has been presented using different topics for convenience of the readers.

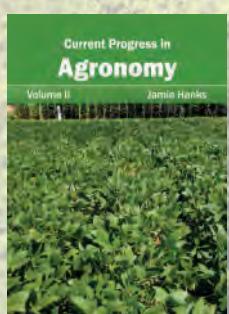


Agronomy

Jamie Hanks	ISBN 978-1-63239-138-4	\$150.00 US	2015	Book Size 8.5"x11"	223pp. Colored	Hardback
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Current Progress in Agronomy: Volume I

This book is a source of information about agronomy - the science of producing and using plants. It focuses on the most important aspect of life "food and agriculture". It brings to its readers all the researches, studies and projects taking place in this field. It strives to provide a fair idea about this discipline and to help develop a good understanding of the latest advances. Through this book, the readers will gain knowledge that would broaden their horizons about agronomy.



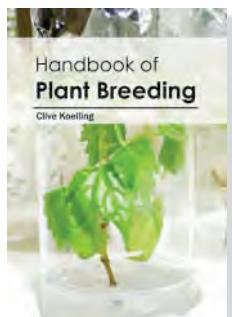
Agronomy

Jamie Hanks	ISBN 978-1-63239-139-1	\$150.00 US	2015	Book Size 8.5"x11"	216pp. Colored	Hardback
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Current Progress in Agronomy: Volume II

This book is a source of information about agronomy - the science of producing and using plants. It focuses on the most important aspect of life "food and agriculture". It brings to its readers all the researches, studies and projects taking place in this field. It strives to provide a fair idea about this discipline and to help develop a good understanding of the latest advances. Through this book, the readers will gain knowledge that would broaden their horizons about agronomy.

Agricultural Sciences



Clive Koelling

ISBN
978-1-63239-407-1

\$120.00 US

2015

Book Size
6"x9"

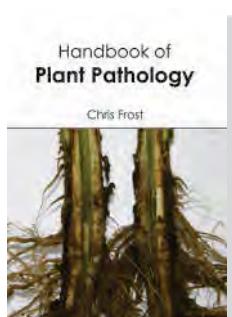
296pp.
Colored

Agronomy

Hardback

Handbook of Plant Breeding

Altering the traits of plants for the purpose of generation of desired characteristics is referred to as plant breeding. Breeding of crop plants in order to make them more adapted to human agriculture systems has been in practice for the past 10,000 years. However, the invention of the Mendelian principles of genetics and the consequent development of quantitative genetics in the 20th century has resulted in genetic crop enhancement. In the past 50 years, plant breeding has commenced a molecular era based on molecular tools to analyze RNA, proteins and DNA and relate such molecular outcomes with plant phenotype. These marker trait relations develop rapidly in order to allow more effective breeding. The aim of this book is to provide important information to the readers regarding this field and serve as a valuable source of reference.



Chris Frost

ISBN
978-1-63239-408-8

\$150.00 US

2015

Book Size
6"x9"

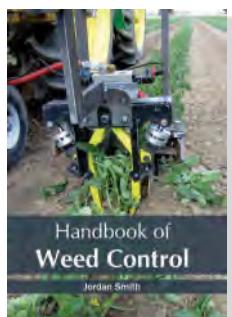
374pp.
Colored

Agronomy

Hardback

Handbook of Plant Pathology

Dealing with the nature and causes of plant diseases in the fields of agriculture and forestry requires an applied science which is known as plant pathology. Plant pathology plays an important role in achieving food security and food safety for the world.



Jordan Smith

ISBN
978-1-63239-416-3

\$120.00 US

2015

Book Size
6"x9"

276pp.
Colored

Agronomy

Hardback

Handbook of Weed Control

The aim of this book is to educate the readers regarding the various techniques of weed control with the help of extensive information. Agricultural managers have been facing the problem of crop loss because of weeds ever since the first farming systems were developed. Over the course of the last century, significant progress has been made in order to minimize weed intrusion in crop settings with the help of efficient yet mostly non-sustainable weed control methodologies. With the commercial introduction of herbicides in the mid 1900's, developments in chemical weed control strategies have helped in effective suppression of a wide range of weed species for most agricultural practices. Presently, due to the need to design efficient sustainable weed management systems, research has been further pushing its boundaries regarding investigation on unified weed management options comprising of mechanical, cultural as well as chemical practices. The contributions made by authors in this book elucidate important topics of research which evaluate several options that can be utilized for establishing efficient and sustainable weed management systems for numerous areas of crop production.



Edwin Tan

ISBN
978-1-63239-431-6

\$140.00 US

2015

Book Size
6"x9"

332pp.
Colored

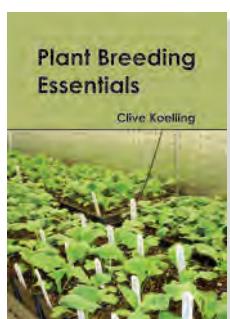
Agronomy

Hardback

Integrated Pest Management and Pest Control

This book presents a detailed description of pest management theory and concepts. Integrated pest management is an efficient and environmentally sensitive approach that depends on an integration of common-sense practices. Its programs employ recent and descriptive information regarding the life cycles of pests and their interplay with the environment. This information, along with the available pest control techniques, is used to manage pest damage by the most economical means and with the least possible hazard to property, people, and the environment.

Agricultural Sciences

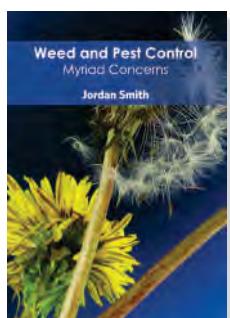


Agronomy

Clive Koelling	ISBN 978-1-63239-512-2	\$150.00 US	2015	Book Size 6"x9"	367pp. Colored	Hardback
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Plant Breeding Essentials

This book presents a detailed account of information on modern approaches in plant breeding. Contemporary plant breeding is regarded as a discipline whose origins lie in the science of genetics. It is considered a very intricate subject, involving the use of several integrative novel sciences and technologies which developed into business, science and art. Extraordinary growth in contemporary plant breeding has been witnessed, enriching the conventional breeding practices with accurate, effective, economical and swift breeding tools and approaches as a result of novel advancements in genomics as well as plant genetics and coupling plant "omics" accomplishments accompanied with progresses in computer science and informatics, as well as laboratory robotics. The aim of this book is to describe some of the current developments of 21st century plant breeding, elucidating new approaches, achievements, views, research efforts and perspectives in breeding of some crop species. Latest advances and comprehensive information on selected topics have been provided in this all-inclusive book which aims to improve the knowledge of the readers regarding contemporary plant breeding.

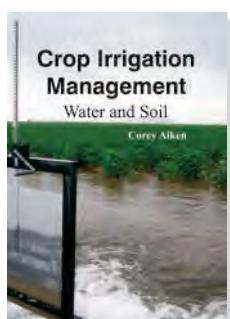


Agronomy

Jordan Smith	ISBN 978-1-63239-623-5	\$110.00 US	2015	Book Size 6"x9"	210pp. Colored	Hardback
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Weed and Pest Control: Myriad Concerns

Extensive information regarding the topic of weed and pest control has been elucidated in this book. The book elucidates different insect control techniques, like tactics in integrated pest management of opportunistic generalist insect species, insect pest control by polyculture technique, the allelopathy phenomenon, application of numerous integrated pest management programs, carbon stocks to manage weeds, biological control of root pathogens, and soil physical procedures and irrigation tactics.

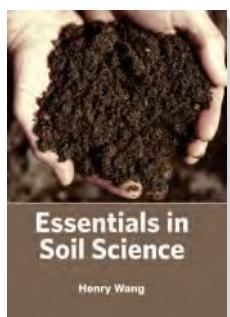


Soil Science

Corey Aiken	ISBN 978-1-63239-130-8	\$120.00 US	2015	Book Size 6"x9"	254pp. Colored	Hardback
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Crop Irrigation Management: Water and Soil

A descriptive account based on the field of crop irrigation management, with emphasis on water and soil, has been provided in this up-to-date book. It provides in-depth elucidation regarding the following topics: Reuse Water Quality, Soil and Pollution; Managing Irrigation of Crops; and Examples of Irrigation Systems. All this information has been contributed by reputed authors in their respective fields of expertise. The book should appeal to individuals interested in the safe reuse of water for irrigation purposes in terms of quality of urban drainage basins and effluent quality, as well as those engaged in research work regarding the complications of soils related to health and pollution, infiltration and impacts of irrigation, and managing irrigation systems comprising of subsurface technique of irrigation as well as basin type irrigation. The several examples are indeed a reflection of real world irrigation practices of interest to practitioners, especially when the places of the projects demonstrated herein are spread over a wide range of climatic environments.



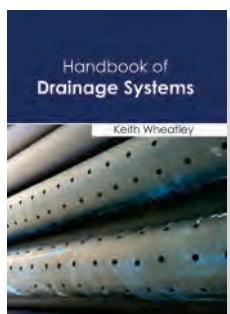
Soil Science

Henry Wang	ISBN 978-1-63239-326-5	\$160.00 US	2015	Book Size 6"x9"	410pp. Colored	Hardback
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Essentials in Soil Science

The dependence of humans on soil and curiosity regarding it is leading to the investigation of alterations within soil processes. The diversity and dynamics of soil are creating scope for novel discoveries and insights, which enable us to comprehend the variation in soil processes. As a result, this allows us to take the required steps for the protection of soil and subsequently promoting soil health. The aim of this book is to give an updated account on the present state of knowledge about recent evaluations and practices in soil science. Moreover, it provides a descriptive assessment about the impact of residue/waste application on soil properties and the mechanism of plant development and adaptation. Interesting examples of simulation employing distinct models dealing with ecosystem respiration, carbon sequestration, soil landscape etc. have been illustrated. This book also contains information regarding analysis of areal data and geostatistics by employing various evaluation techniques. Current progresses in analytical methods used for obtaining answers to the diverse physical mechanisms, biological and chemical processes in soil have also been elucidated in this book.

Agricultural Sciences

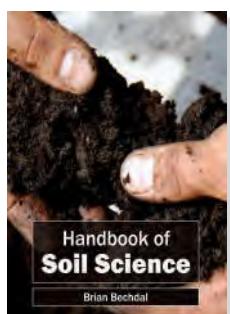


Soil Science

Keith Wheatley	ISBN 978-1-63239-385-2	\$120.00 US	2015	Book Size 6"x9"	251pp. Colored	Hardback
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Handbook of Drainage Systems

The issue of drainage, i.e. 'draining the water off', is as important as the issue of irrigation, i.e. 'application of water'. Drainage influences food security, agricultural occupation, municipal usage, sanitation and hygiene, land restoration, water resource management, hydrological disaster management and ecological balance. This book provides the reader with a tri-dimensional exposure of drainage at par with surface and subsurface drainage, and sustainable systems. It constitutes the experiences of renowned authors and their associates from around the world who have dealt with wide ranging subjects of the drainage phenomena. This book will benefit field engineers, academicians and graduate students who share this area of interest.

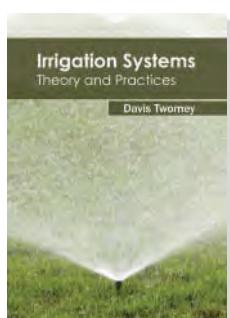


Soil Science

Brian Bechdal	ISBN 978-1-63239-412-5	\$150.00 US	2015	Book Size 8.5"x11"	220pp. Colored	Hardback
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Handbook of Soil Science

This book on soil science is a compilation of chapters written by international authors. These scientists have explored various aspects of soil sciences and presented them in this valuable guide for researchers in this field. This book contains case studies reflecting on all the concepts related to soil from all over the globe. It elucidates the effects of chemical, industrial and human activities on the quality of soil. We hope that this book proves to be a resourceful guide for both basic and advanced concepts in soil science.

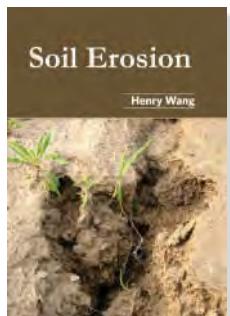


Soil Science

Davis Twomey	ISBN 978-1-63239-437-8	\$150.00 US	2015	Book Size 6"x9"	382pp. Colored	Hardback
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Irrigation Systems: Theory and Practices

This book addresses the importance of irrigation and provides a theoretical and practical analysis of the same. It consists of a broad spectrum of topics and information based on agricultural water productivity in stressed environments and systems of irrigation practices across the globe which are extensively discussed and illustrated. The various topics elucidated in this book include impacts of irrigation on the physiology of plants, process of creation of drought tolerant variety, deficit irrigation practices and genetic manipulation, plant-water-soil-atmosphere relationships, agronomic practices in challenging environments, detailed account on the onslaught of global warming, agrometeorological effects and climate change, casing practices for sustainable irrigation practices, etc. Therefore, with the aforementioned topics, the book efficiently examines the field of irrigation which is important for the sustenance of agriculture.



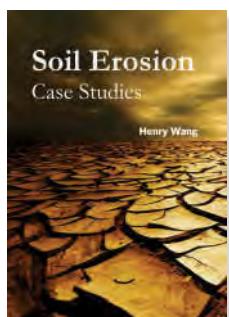
Soil Science

Henry Wang	ISBN 978-1-63239-561-0	\$90.00 US	2015	Book Size 6"x9"	198pp. Colored	Hardback
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Soil Erosion

A comprehensive introduction to the topic of soil erosion has been provided in this profound book. Soil loss for erosion is a natural event in soil dynamics, affected by climate, soil intrinsic properties and morphology, which can both enhance as well as trigger the process. Anthropic activities, like improper agricultural practices, deforestation, overgrazing, forest fires and construction activities may trigger a great impact on erosion processes or, on the other hand, lead to soil erosion mitigation through a sustainable management of natural resources. The book consists of a number of topics focusing on a variety of aspects of the erosion phenomena.

Agricultural Sciences



Henry Wang	ISBN 978-1-63239-562-7	\$140.00 US	2015	Book Size 6"x9"	334pp. Colored	Hardback
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Soil Erosion: Case Studies

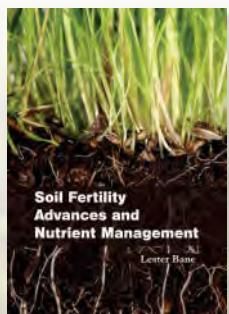
This book encompasses various significant case studies regarding the topic of soil erosion. Soil erosion affects a vast area of Earth's surface. Accelerated soil erosion has been identified as a major soil threat, affecting both protective and productive functions. Land management in areas affected by soil erosion is a concerning issue for ecosystems and landscape conservation. This book is a compilation of numerous topics on erosion and its related aspects. It extensively discusses important aspects of soil erosion such as erosion modeling and experimental studies, implications of land management in arid and semiarid ecosystems while also discussing about its other important applications in areas such as geoscience and engineering. It also presents different perspectives about various erosion-related topics such as modeling, mitigation and assessment.



Lester Bane	ISBN 978-1-63239-563-4	\$110.00 US	2015	Book Size 6"x9"	251pp. Colored	Hardback
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Soil Fertility

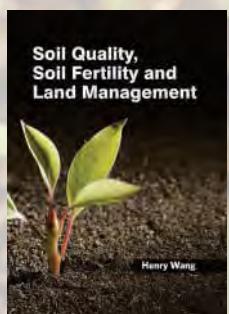
A descriptive account based on the extensive topic of soil fertility has been presented in this book. It is a compilation of topics presented by internationally acclaimed experts in the field of soil fertility. It discusses in detail about various biological processes along with the utilization of organic and inorganic fertilizers and how they contribute towards improving soil fertility. It also includes discussions on improving fertilizer recommendation and efficiency and elaborates leaf sampling and analysis. Standardized methods of analysis and proper leaf sampling play important roles in providing good recommendations.



Lester Bane	ISBN 978-1-63239-564-1	\$140.00 US	2015	Book Size 6"x9"	320pp. Colored	Hardback
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Soil Fertility Advances and Nutrient Management

The advances in the field of soil fertility are described in this book along with information regarding nutrient management. It compiles contributions of various soil fertility experts and researchers. It extensively discusses the topic of soil mapping and soil fertility testing, describing spatial heterogeneity in soil nutrients within natural and managed ecosystems and latest soil testing methods and information on response of soil fertility indicators to agricultural practices. It further discusses, the theme of organic and inorganic amendments for increasing soil fertility, describing fertilizing materials that provide important amounts of essential nutrients for plants. The book also covers topics on integrated nutrient management planning. Herein, case studies describing successful application of this approach expansively across both geographically large as well as remote areas, to increase the production of staple crops and forages have been presented from Central Europe, South America and Africa.



Henry Wang	ISBN 978-1-63239-566-5	\$140.00 US	2015	Book Size 6"x9"	346pp. Colored	Hardback
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Soil Quality, Soil Fertility and Land Management

This is comprehensive book which covers extensive topics like soil quality, soil fertility and land management. Soil serves as an essential resource for maintaining quality of life throughout the world. It performs multiple functions including facilitation of food production, storage of nutrients, waste disposal, storage of water, supporting our structures and environment etc. Maintenance of environmental quality and sustenance of biological productivity promotion of animal and plant health can be achieved by maintaining soil health. The effects of land management practices on soil properties and processes need to be understood to assess environmental and economic sustainability. Topics in this book elucidate multidisciplinary composition of current trends in soil health. It further elaborates the development of remediation strategies and feasible management to preserve and maintain soil health. The book talks about strategies to improve land management with the help of relevant case studies. The importance of characterizing soil properties in order to develop remediation and management strategies has also been emphasized. Introduction of new approaches for indicating soil pollution have been presented vividly in this book. It draws attention towards contemporary management of various environmental scenarios of high concern.

Agricultural Sciences



Soil Science

Brian Bechdal	ISBN 978-1-63239-567-2	\$150.00 US	2015	Book Size 8.5"x11"	196pp. Colored	Hardback
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Soil Science and Management

Soil science is crucial in today's time. It seeks to answer to the ever growing consumption and need of food. It studies all the aspects of soil and seeks to find solutions to increase productivity. This book attempts to understand the multiple branches that fall under the vast and varied field of soil science. The research in this field is constantly guided by the challenges and needs of civilization. This book aims to collate such researches and data and help readers understand the solutions and future growth of this discipline.



Soil Science

Brian Bechdal	ISBN 978-1-63239-568-9	\$150.00 US	2015	Book Size 8.5"x11"	222pp. Colored	Hardback
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Soil Science: Environmental and Applied Aspects

Volume I

This book is a complete resource guide with respect to the environmental soil sciences. Authors from across the globe have gathered information and scientific case studies about the subject. Topics ranging from basic to advanced aspects of environmental soil science have been arranged in a reader friendly manner. This book explores the characteristics, impacts, and some future oriented studies of soil. The chapters are well written and have been rigorously reviewed by specialists in the field.



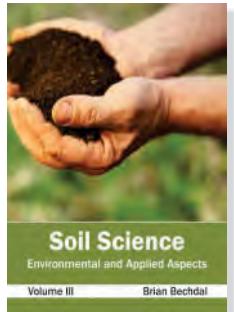
Soil Science

Brian Bechdal	ISBN 978-1-63239-569-6	\$150.00 US	2015	Book Size 8.5"x11"	225pp. Colored	Hardback
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Soil Science: Environmental and Applied Aspects

Volume II

This book is a complete resource guide with respect to the environmental soil sciences. Authors from across the globe have gathered information and scientific case studies about the subject. Topics ranging from basic to advanced aspects of environmental soil science have been arranged in a reader friendly manner. This book explores the characteristics, impacts, and some future oriented studies of soil. The chapters are well written and have been rigorously reviewed by specialists in the field.



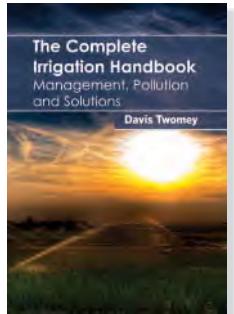
Soil Science

Brian Bechdal	ISBN 978-1-63239-570-2	\$150.00 US	2015	Book Size 8.5"x11"	212pp. Colored	Hardback
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Soil Science: Environmental and Applied Aspects

Volume III

This book is a complete resource guide with respect to the environmental soil sciences. Authors from across the globe have gathered information and scientific case studies about the subject. Topics ranging from basic to advanced aspects of environmental soil science have been arranged in a reader friendly manner. This book explores the characteristics, impacts, and some future oriented studies of soil. The chapters are well written and have been rigorously reviewed by specialists in the field.



Soil Science

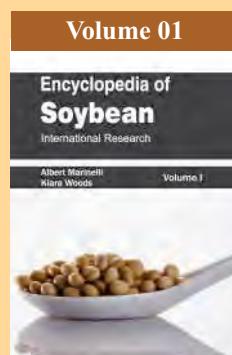
Davis Twomey	ISBN 978-1-63239-594-8	\$110.00 US	2015	Book Size 6"x9"	246pp. Colored	Hardback
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The Complete Irrigation Handbook: Management, Pollution and Solutions

This is an all-inclusive book which provides in-depth information regarding irrigation, its management as well as problems related to pollution along with the solutions. Irrigated agriculture is the leading user of fresh water across the globe and, because of the huge area in use, is one of the primary sources of pollution to the water resources. This book contains comprehensive information which encompasses distinct issues and problems of irrigated agriculture ranging from water use in various irrigated systems to pollution produced by irrigated agriculture. Furthermore, it also presents novel possibilities of latest irrigation methodologies involving reuse of drainage water and wastewater to help in reduction of freshwater extractions.

Agricultural Sciences

Crops

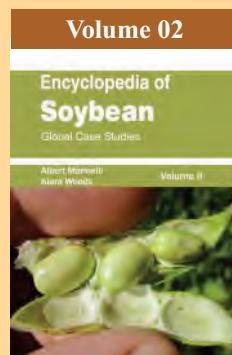


Volume 01

Albert Marinelli
Kiara Woods | ISBN 978-1-63239-296-1 | \$160.00 US | 2015 | Book Size 6"x9" | 396pp. Colored | Hardback

Encyclopedia of Soybean: International Research

Soybean is the most crucial oilseed and livestock feed crop in the world. This is ascribed to the crop's high protein content (nearly 40% of seed weight) and oil content (approximately 20%) characteristics that cannot be competed with any other agronomic crop. Traversing the 10-year period from 2001 to 2010, world soybean production increased from 168 to 258 million metric tons (54% increase). In lieu of soybean's extraordinary ascendancy, there has been an increased research interest in the crop throughout the world. Information in this book presents an inclusive outlook of research attempts in plant physiology, agronomy, agricultural economics, and nitrogen relationships that will aid soybean stakeholders and scientists across the world.

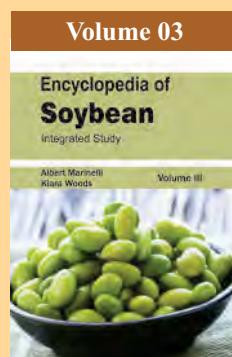


Volume 02

Albert Marinelli
Kiara Woods | ISBN 978-1-63239-297-8 | \$110.00 US | 2015 | Book Size 6"x9" | 230pp. Colored | Hardback

Encyclopedia of Soybean: Global Case Studies

Soybean is the most crucial oilseed and livestock feed crop in the world. Traversing the 10-year period from 2001 to 2010, world soybean production increased from 168 to 258 million metric tons (54% increase). The crop's high protein content (nearly 40% of seed weight) and oil content (approximately 20%) are characteristics that cannot be competed with any other agronomic crop. In lieu of soybean's extraordinary ascendancy, there has been an increased research interest in the crop throughout the world. Information in this book presents an inclusive outlook of research attempts in soybean genetics that will aid soybean stakeholders and scientists across the world.

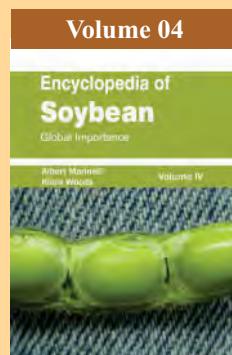


Volume 03

Albert Marinelli
Kiara Woods | ISBN 978-1-63239-298-5 | \$120.00 US | 2015 | Book Size 6"x9" | 289pp. Colored | Hardback

Encyclopedia of Soybean: Integrated Study

This book provides a comprehensive description and analysis of Soybean as an essential diet requirement and its therapeutic qualities. Legumes are an essential part of a healthy diet. They are an excellent source of carbohydrates, protein, vitamins and minerals. Soybean has its significance in the overall agriculture and trade as well as in its contribution to food supply. Soybean is the richest in terms of protein and has no cholesterol in comparison with animal food sources and conventional legume. In addition to this, soybean is a cheap source of food and has medicinal qualities because of its photochemical, genistein, isoflavones content. It has been found that Soybean is very helpful in fighting diabetes, heart disease and cancer. Presently, Soybean protein and calories are being employed for the prevention of body wasting which is mostly because of HIV. Soybean's nutritional value is of extreme importance in places where medication facilities are not available. Therefore, this book covers some important topics such as techniques in Soybean biodiesel, Soybean & prostate cancer, chemical feedstocks, etc.

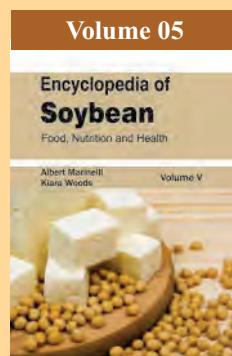


Volume 04

Albert Marinelli
Kiara Woods | ISBN 978-1-63239-299-2 | \$120.00 US | 2015 | Book Size 6"x9" | 269pp. Colored | Hardback

Encyclopedia of Soybean: Global Importance

Legumes are an essential part of a healthy diet. They are an excellent source of carbohydrates, protein, vitamins and minerals. Soybean has its significance in the overall agriculture and trade as well as in its contribution to food supply. Soybean is the richest in terms of protein and has no cholesterol in comparison with animal food sources and conventional legume. In addition to this, soybean is a cheap source of food and has medicinal qualities because of its photochemical, genistein, isoflavones content. It has been found that Soybean is very helpful in fighting diabetes, heart disease and cancer. Presently, Soybean protein and calories are being employed for the prevention of body wasting which is mostly because of HIV. Soybean's nutritional value is of extreme importance in places where medication facilities are not available. This book covers significant topics such as Soybean in monogastric nutrition, nutrition and health, potential use of soybean flour and Brazilian soybean varieties.



Volume 05

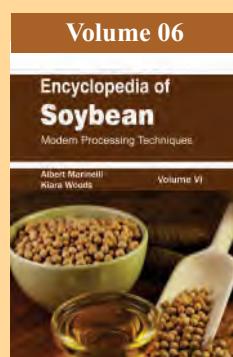
Albert Marinelli
Kiara Woods | ISBN 978-1-63239-300-5 | \$120.00 US | 2015 | Book Size 6"x9" | 276pp. Colored | Hardback

Encyclopedia of Soybean: Food, Nutrition and Health

In this book, the technologies and novel features for the applicability of soybean and its products are elucidated with the help of comprehensive information. Soybean can be employed for various purposes like biodiesel generation, medicinal purposes, textile, human food, etc. The book encompasses a variety of topics and consists of contributions which covers food, nutrition and health. The contributors of this book have diverse backgrounds and they possess years of experience in this field. This book would be of interest to agro-scientists, cultivators, students and researchers.

Agricultural Sciences

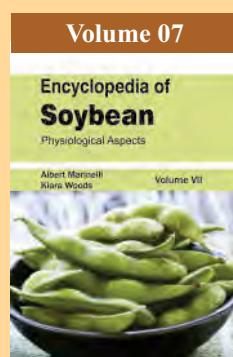
Crops



Albert Marinelli | ISBN 978-1-63239-301-2 | \$120.00 US | 2015 | Book Size 6"x9" | 284pp. Colored | Hardback

Encyclopedia of Soybean: Modern Processing Techniques

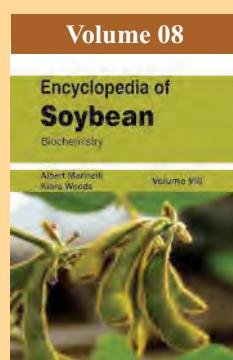
Soybean can be employed for various purposes like biodiesel generation, medicinal purposes, textile, human food, etc. In this book, the technologies and novel features for the applicability of soybean and its products are elucidated substantially. It encompasses a variety of topics and consists of contributions which are organized under sections: modern processing technologies and soybean in aspects of food. The contributors of this book have diverse backgrounds and they possess years of experience in this field. This book would be of interest to agro-scientists, cultivators, students and researchers.



Albert Marinelli | ISBN 978-1-63239-302-9 | \$120.00 US | 2015 | Book Size 6"x9" | 286pp. Colored | Hardback

Encyclopedia of Soybean: Physiological Aspects

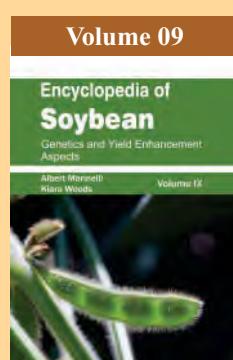
Soybean seed proteins are an efficient and major source of amino acids for human as well as animal nutrition. They are an economical and important source of protein in the diet of many developed and developing countries. Soy-foods are enriched with minerals and vitamins. All the essential amino acids are provided by soybean protein in optimal amounts. It has been found through research that soy may also help in lowering the risks of colon, breast cancer and prostate. With the help of soy, osteoporosis and other bone health problems can also be avoided and hot flashes associated with menopause can be alleviated. The aim of this book is to serve as a good source of information about soybean for students as well as researchers. The book covers intriguing topics such as Properties of Soybean, Soybean Rust Management, Effects of Agro-pastoral System and Soybean Utilization.



Albert Marinelli | ISBN 978-1-63239-303-6 | \$110.00 US | 2015 | Book Size 6"x9" | 226pp. Colored | Hardback

Encyclopedia of Soybean: Biochemistry

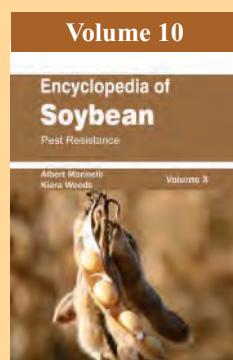
Soybean seed proteins are an economical and important source of protein in the diet of many developed and developing countries. As Soy is an efficient and major source of amino acids for human as well as animal nutrition. All the essential amino acids are provided by soybean protein in optimal amounts. It has been found through research that soy may also help in lowering the risks of colon, breast cancer and prostate. With the help of soy, osteoporosis and other bone health problems can also be avoided and hot flashes associated with menopause can be alleviated. The aim of this book is to serve as a good source of information about soybean for students as well as researchers. Some significant topics covered are Physiological Quality of Conventional Soybean Seeds, Mineral Nutrition, Asian Soybean Rust in South America and Soybean Cyst Nematode.



Albert Marinelli | ISBN 978-1-63239-304-3 | \$140.00 US | 2015 | Book Size 6"x9" | 340pp. Colored | Hardback

Encyclopedia of Soybean: Genetics and Yield Enhancement Aspects

The genetics as well as yield enhancement aspects in the field of soybean are illustrated in this up-to-date book. It lays stress on the importance of application of breeding technologies and novel genetics. Generation of enhanced soybean cultivars is a direct consequence of efficient genotype selections and gene conversions. These cultivars are highly resistant to environmental stresses and diseases. Modern techniques dealing with in-depth explanation of biomaterials and detection of plant stress have been presented in this book. Methods for processing of soybean oil products and food items have also been provided.

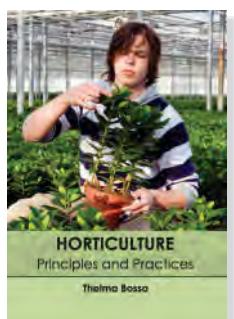


Albert Marinelli | ISBN 978-1-63239-305-0 | \$120.00 US | 2015 | Book Size 6"x9" | 292pp. Colored | Hardback

Encyclopedia of Soybean: Pest Resistance

This book comprehensively discusses the pest resistance characteristics of soybean. Legumes are an essential part of a healthy diet for a major part of the world's population. They are an excellent source of carbohydrates, protein, vitamins and minerals. Soybeans are of great significance in the overall agriculture and trade as well as in their contribution to food supply. They are highly rich in protein content and have no cholesterol in comparison with animal food sources and conventional legume. Additionally, soybean is a cheap source of food as well as medicinal value because of its photochemical, genistein, isoflavones content. Studies have reflected that soybean is extremely helpful in fighting numerous medical conditions including diabetes, heart disease and cancer. Presently, soybean protein and calories are being employed for the prevention of body wasting mostly linked with HIV. Soybean's nutritional value is of extreme importance in places where medication facilities are not readily available. It holds great economical potential for extensive use in industrial purposes. This quality of soybean can be hugely beneficial for small-scale soybean producers.

Agricultural Sciences

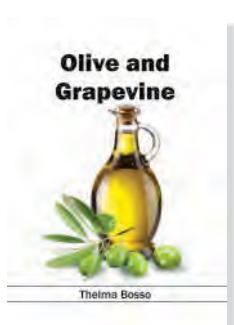


Horticulture

Thelma Bosso	ISBN 978-1-63239-420-0	\$90.00 US	2015	Book Size 6"x9"	184pp. Colored	Hardback
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Horticulture: Principles and Practices

This book illustrates the principles and practices of horticulture with the help of up-to-date information. It discusses modern features and future trends in this field. The various topics presented in this book include the effect of climate and soil properties on nitrogen balance, impact of fertilizers with prolongation effect, variedness in grapevine gene pools, growth and nutrient intake of tomato plants, post-harvest quality, chemical composition and antioxidant activity, local botanical information and agrobiodiversity, urban horticulture, utilization of humectant agents in protected horticulture and post-harvest techniques of fresh horticulture produce. This book will cater as a valuable source of reference for students, professional horticulturalists and readers interested in acquiring knowledge about this field.

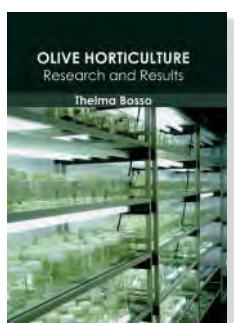


Horticulture

Thelma Bosso	ISBN 978-1-63239-489-7	\$140.00 US	2015	Book Size 6"x9"	321pp. Colored	Hardback
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Olive and Grapevine

This book is a compilation of important topics that document the results of research in olive and grapevine genetics, as an addition to the complete compendium of the present biodiversity of both species with an insight into molecular mechanisms accountable for their important and desirable traits. It covers a wide range of distinct topics related to olive and grapevine genetics, without any strict limitation, keeping the title as a loose frame for the limitless science of olive and grapevine studies. The book talks about the distinct levels of genetic variability, revealing the remains of still existing wild populations and treasures of overlooked local peculiarities, constructing the network from plant to product and back to the start, to the heart of all questions asked and the answers hidden in genetics.

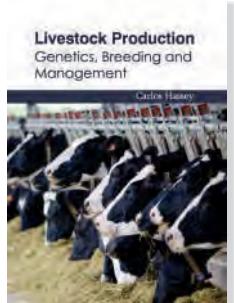


Horticulture

Thelma Bosso	ISBN 978-1-63239-490-3	\$150.00 US	2015	Book Size 6"x9"	385pp. Colored	Hardback
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Olive Horticulture: Research and Results

This book presents various techniques and methods involved in olive horticulture worldwide. Olive (*Olea europaea*) is being greatly deemed as a crop of significant health and economic importance across the globe. The cultivation of olive is extremely essential in Italy. However, there still remains a lot of confusion about the genetic identity of cultivars. This book serves as a compilation of latest information regarding olive trees and olive oil industry. The aim of this book is to present information which is relevant for scientists, horticulturists, students, and readers wishing to attain knowledge regarding olive cultivation in order to enhance productivity and product quality. The book encompasses several topics including the cultivation process of olives, table olives and description of olive oil industry in Italy. A catalogue of variants of olives across Italy has been presented in this book. The information presented in this book has been contributed by eminent professionals engaged in the field of olive cultivation, olive oil production, table olives and associated fields. It includes all the aspects of olive fruit production, ranging from site selection, pest and disease control, recommended varieties, to primary and secondary processing. The book has been compiled in a manner to serve as an all-inclusive guide on olives.



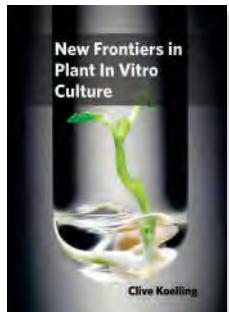
Livestock

Carlos Hassey	ISBN 978-1-63239-452-1	\$90.00 US	2015	Book Size 6"x9"	161pp. Colored	Hardback
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Livestock Production: Genetics, Breeding and Management

A descriptive account regarding livestock production has been presented in this book including its genetics, breeding as well as management. This book is unique in its approach as it has been designed as a valuable resource to meet the needs of researchers, students and professionals working in various parts of the globe in distinct environments towards optimization of livestock production.

Agricultural Sciences



Botany

Clive Koelling	ISBN 978-1-63239-478-1	\$110.00 US	2015	Book Size 6"x9"	222pp. Colored	Hardback
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New Frontiers in Plant In Vitro Culture

Plant in vitro culture forms an essential part in the field of botany. This book serves the objective of presenting recent developments in the field of plant in vitro culture in relation with medicinal plants and perennial fruit crops. It extensively covers fundamental principles and recent techniques. It includes contributions of eminent researchers and experts in this field from all over the world. This book will serve as a valuable reference for students, teachers, researchers in biotechnology and for individuals interested in commercial applications of plant in vitro culture.

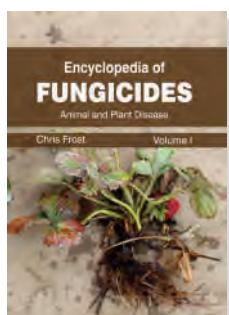


Botany

Clive Koelling	ISBN 978-1-63239-479-8	\$120.00 US	2015	Book Size 6"x9"	259pp. Colored	Hardback
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New Insights in Plant Protection

This book presents various outcomes of recent studies and advancements regarding plant protection. Crop losses due to pests, including insects, diseases and weeds, have been prevalent for a long time. However, with the intensification of agriculture and dynamic changes in cropping patterns including the cultivation of high yielding varieties and hybrids; over time, the role played by pesticides has become extremely significant. Nearly a thousand insect species (between 600 to 800), 1500 to 2000 plant species, several fungal, nematode and bacterial species as well as viruses are regarded as pests of specific concern in the field of agriculture.

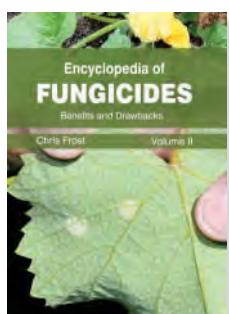


Plant Pathology

Chris Frost	ISBN 978-1-63239-249-7	\$140.00 US	2015	Book Size 6"x9"	310pp. Colored	Hardback
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Encyclopedia of Fungicides: Animal and Plant Disease Volume I

This book provides comprehensive information regarding fungicides and elucidates their role in animal and plant diseases. A chemical compound used to prevent the growth of fungi is called fungicide. In agriculture, fungicides are mainly used to kill fungi which attempt to damage crops. This book provides the readers with an insight into the most important advancements in disciplines related to fungicides. This book discusses the usage of fungicides in the control and management of fungal diseases.

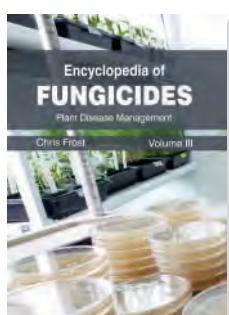


Plant Pathology

Chris Frost	ISBN 978-1-63239-250-3	\$120.00 US	2015	Book Size 6"x9"	266pp. Colored	Hardback
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Encyclopedia of Fungicides: Benefits and Drawbacks Volume II

The book primarily illuminates both the benefits as well as drawbacks of fungicides. Over the past few years, a lot of pesticides have been formulated to kill pests, and fungicides are one of these. They are primarily used to kill fungus, and are mostly utilized in medicine industry, agriculture fields in protection of seeds during storage and prevention of the growth of toxin producing fungi. Due to an increase in the importance of agriculture, the production of fungicides is also growing. Also, because of their harmful effects on humans, birds and fishes; the problems related to safety are also becoming a matter of growing concern.



Plant Pathology

Chris Frost	ISBN 978-1-63239-251-0	\$140.00 US	2015	Book Size 6"x9"	341pp. Colored	Hardback
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Encyclopedia of Fungicides: Plant Disease Management Volume III

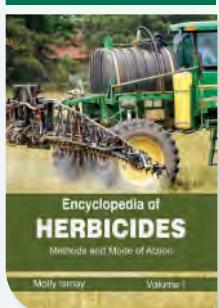
The role of fungicides in plant disease management has been described in this comprehensive book. It includes the varied approaches of fungicide applications and its results. It describes the functioning of Integrated Plant Disease Management on a vast group of crops, grown around the world, like wheat production in Argentina and the U.S., corn, cotton and eucalyptus yield in Brazil, rice production in India, peanut in the Southern parts of U.S. and pine seedlings in Serbia. It also deals with the idea of using natural products as fungicides. And finally, it describes fungicide resistance and hormesis; topics which are very important in implementing plant disease management practices in the matter of fungicide-fungus interaction.

Agricultural Sciences

Plant Pathology



Volume I

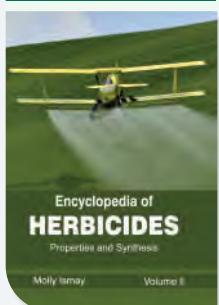


Molly Ismay | ISBN 978-1-63239-255-8 | \$110.00 US | 2015 | Book Size 6"x9" | 216pp. Colored | Hardback

Encyclopedia of Herbicides: Methods and Mode of Action

Herbicide use is an essential part of agricultural practices for optimizing crop production these days. This book broadly covers the mechanisms of herbicidal action, mode of action of certain herbicides on controlling diseases, weed expansion and production, and growth and progress of field crops. This compilation is well elaborated and summarized with topics like molecular mechanism of action, immunosensors, community response, utilization of herbicides in biotech culture, weed resistance, herbicides risk and herbicides persistence. The studies in this book reflect that practice with one crop or problem at times can be suitable to a seemingly different situation in a different crop often till an unexpected extent. The topics covered in this book will appeal to readers concerned with fields related to herbicides and pesticides and the content will be of great interest to them in their future prospects.

Volume II

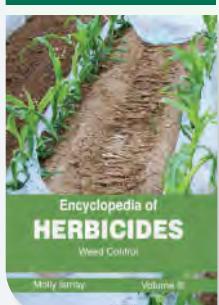


Molly Ismay | ISBN 978-1-63239-256-5 | \$110.00 US | 2015 | Book Size 6"x9" | 216pp. Colored | Hardback

Encyclopedia of Herbicides: Properties and Synthesis

This book covers topics of synthesis and various properties of herbicides in an in-depth manner. It outlines the detailed studies of various synthetic pathways of specific herbicides and the physical and chemical features of other synthesized herbicides. The objective of this book is to showcase several characteristics and features of herbicides, the physical and chemical properties of specific types of herbicides, and their effects on physical and chemical features of soil and micro-flora. In addition, an assessment of the extent of contamination in soils as well as crops by herbicides has been elaborated along with a research on the performance and photochemistry of herbicides and the impact of excess herbicides in soils and field crops.

Volume III



Molly Ismay | ISBN 978-1-63239-257-2 | \$120.00 US | 2015 | Book Size 6"x9" | 300pp. Colored | Hardback

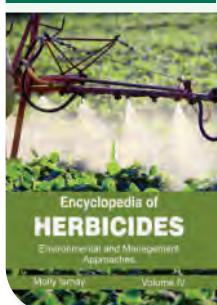
Encyclopedia of Herbicides: Weed Control

This book covers herbicidal control of weeds in an in-depth manner. It discusses numerous techniques used by herbicides for controlling a particular weed population. The objective of this book is to showcase several characteristics and features of herbicides, the physical and chemical properties of specific types of herbicides, and their effects on physical and chemical features of soil and micro-flora. In addition, an assessment of the extent of contamination in soils as well as crops by herbicides has been elaborated along with a research on the performance and photochemistry of herbicides and the impact of excess herbicides in soils and field crops.

Agricultural Sciences

Plant Pathology

Volume IV



Molly Ismay

ISBN
978-1-63239-258-9

\$120.00 US

2015

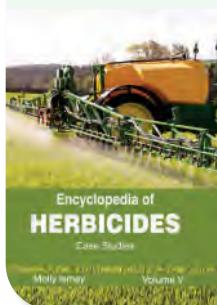
Book Size
6"x9"261pp.
Colored

Hardback

Encyclopedia of Herbicides: Environmental and Management Approaches

This book presents an overview on the impact of weeds on crop production and the use of herbicides to curb their negative influence on crop yield. Weeds have an adverse impact on crop quality and yield. Thus, profitable farming depends on their control by well synchronized management methodologies. Chemical herbicides are of crucial significance amongst these techniques. Their progress and commercialization began around 1940's and they significantly facilitated a timely boost in crop yield and quality when it was most required. This book brings together various important topics with scientific researches and outlines some of the contemporary trends in the subject of herbicides. This comprehensive compilation also includes environmental studies on the toxicity and influence of herbicides on natural populations, techniques to cut down herbicide inputs and ensuring the use of bioherbicides as natural substitutes.

Volume V



Molly Ismay

ISBN
978-1-63239-259-6

\$150.00 US

2015

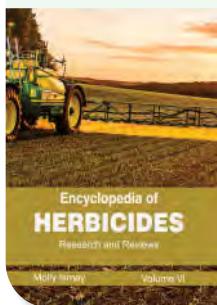
Book Size
6"x9"398pp.
Colored

Hardback

Encyclopedia of Herbicides: Case Studies

Both in agricultural and non-crop settings, herbicides have found utility in weed management strategies universally. However, applications and methodologies have been continually undergoing advancements. The aim of this book is to facilitate a better understanding of perennially evolving weed compositions while maintaining the effectiveness of current options. This book, therefore, provides detailed data about prevalent trends in the utilization of herbicides and management of weed in various land and water settings along with a study of cases of weed control in specific situations.

Volume VI



Molly Ismay

ISBN
978-1-63239-260-2

\$120.00 US

2015

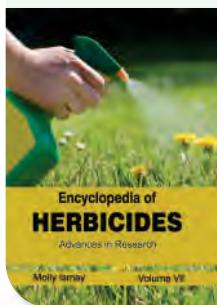
Book Size
6"x9"264pp.
Colored

Hardback

Encyclopedia of Herbicides: Research and Reviews

The researches and case studies detailed in this book provide a great deal of information concerning herbicide use in a number of settings. Both in agricultural and non-crop settings, herbicides have found utility in weed management strategies universally. However, applications and methodologies have been continually undergoing advancements. The aim of this book is to facilitate a better understanding of perennially evolving weed compositions while maintaining the effectiveness of current options. This book, therefore, provides detailed research review on the prevalent trends in the utilization of herbicides, toxicity of herbicides and its impact on aquatic, soil biota and human health.

Volume VII



Molly Ismay

ISBN
978-1-63239-261-9

\$140.00 US

2015

Book Size
6"x9"317pp.
Colored

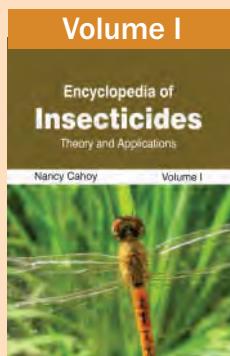
Hardback

Encyclopedia of Herbicides: Advances in Research

In an effort to eradicate the growing concerns posed by weeds in agricultural output, this book provides readers with an insight on herbicide use. Among the various pesticides used globally for control of weed and other undesirable plants in agricultural and related environments, herbicides are one of the most extensively used. Intense research is being continuously carried out in this field because of its excellent capability to control weed, while minimizing adverse effects on the ecological systems. Currently, a broad spectrum of research work is being carried out to focus on better use of herbicides while monitoring their impact on the environment. Even in medicine, herbicide has found extensive applications. In this book, experts involved in study and research of pesticides have collaborated to document and compile a multitude of topics pertaining to herbicide research.

Agricultural Sciences

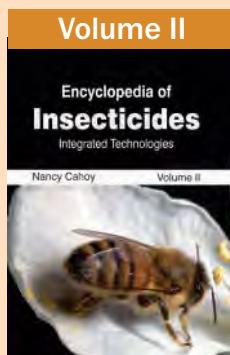
Plant Pathology



Nancy Cahoy | ISBN 978-1-63239-262-6 | \$120.00 US | 2015 | Book Size 6"x9" | 280pp. Colored | Hardback

Encyclopedia of Insecticides: Theory and Applications

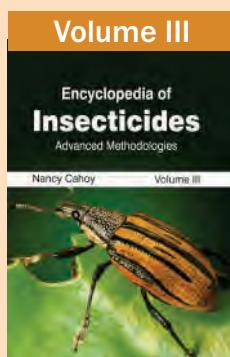
The aim of this book is to educate the readers regarding theories and applications in the field of insecticides. This book has been compiled with the purpose of providing benefit to researchers, food-producing factories, government, leaders and consumers also. If the book proves to be satisfactory to these readers, then we will consider that the ambition with which this book and its content were written, has been fulfilled.



Nancy Cahoy | ISBN 978-1-63239-263-3 | \$140.00 US | 2015 | Book Size 6"x9" | 314pp. Colored | Hardback

Encyclopedia of Insecticides: Integrated Technologies

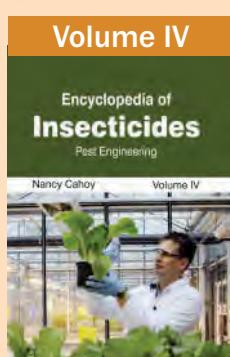
This book talks about the effect, ecological fate, course of motion, efficiency and non-targeted impacts of insecticides. The book describes the unified schemes for pest control, and also the necessity of insecticides to cease the growth of insect pests. It also includes comprehension of more natural and eco-friendly options to insecticides, like metabolic stress and plant extracts.



Nancy Cahoy | ISBN 978-1-63239-264-0 | \$110.00 US | 2015 | Book Size 6"x9" | 249pp. Colored | Hardback

Encyclopedia of Insecticides: Advanced Methodologies

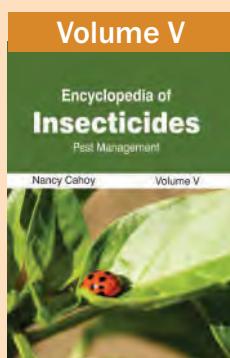
The aim of this book is to educate researchers, scientists, students and end users (farmers, hobby producers) about insecticides and their usage. The book examines topics related to human health and insecticides, and the relation of insecticides to environments. A special focus on insecticides against pests of urban areas, forests and farm animals, and other developments in pest control in the recent past is also examined.



Nancy Cahoy | ISBN 978-1-63239-265-7 | \$120.00 US | 2015 | Book Size 6"x9" | 296pp. Colored | Hardback

Encyclopedia of Insecticides: Pest Engineering

This book provides substantial information regarding insecticides and their applications in the field of pest engineering. The first section on insecticides mode of action focuses on toxicity of organic and inorganic insecticides, organophosphorus insecticides, toxicity of fenitrothion and permethrin, and dichlorodiphenyltrichloroethane (DDT). The second section is dedicated to vector control using insecticides, biological control of mosquito larvae by *Bacillus thuringiensis*, metabolism of pyrethroids by mosquito cytochrome P40 susceptibility status of *Aedes aegypti*, etc. The book will attract readers to make rational decisions regarding the usage of pesticides.

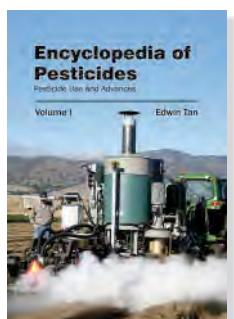


Nancy Cahoy | ISBN 978-1-63239-266-4 | \$120.00 US | 2015 | Book Size 6"x9" | 266pp. Colored | Hardback

Encyclopedia of Insecticides: Pest Management

This book provides comprehensive information regarding insecticides and their applications in the field of pest management. The first section on pest management describes bioactive natural products from sapindaceae, management of potato pests, flower thrips, mango mealy bug, pear psylla, grapes pests, small fruit production, boll weevil and tsetse fly using insecticides. Second section on toxicological profile of insecticides provides information on insecticide resistance in natural population of malaria vector, role of *Anopheles gambiae* P450 cytochrome, genetic toxicological profile of carbofuran and pirimicarb carbamic insecticides, etc. The subject matter in this book will attract the reader's concern to support rational decisions regarding the use of pesticides.

Agricultural Sciences

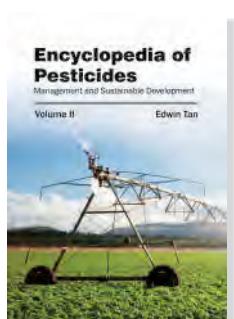


Plant Pathology

Edwin Tan	ISBN 978-1-63239-277-0	\$140.00 US	2015	Book Size 6"x9"	336pp. Colored	Hardback
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Encyclopedia of Pesticides: Pesticide Use and Advances Volume I

Matters regarding pesticides as well as biopesticides are covered in this all-inclusive book. Analysis about the present use of pesticides, on the levels of contamination, on the regulatory status, on the pesticides management options, and on few methods of pesticides application, reporting data accumulated from across the globe has been presented in this book. It also describes the developments in the evolving field of biopesticides, providing authentic information on the regulation of the plant protection products from natural origin in the European Union. It reports data related to the application of wood pyrolysis liquids, neem pesticides and bacillus-based products and encompasses different aspects of pesticides management practices in agreement with pesticides deterioration and contaminated sites remediation technologies, supporting the environment sustainably. The topics covered in the book will be beneficial to students, researchers, government officials and members of the civil society working in the field.

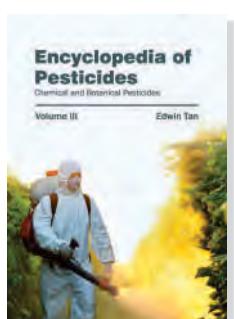


Plant Pathology

Edwin Tan	ISBN 978-1-63239-278-7	\$90.00 US	2015	Book Size 6"x9"	208pp. Colored	Hardback
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Encyclopedia of Pesticides: Management and Sustainable Development Volume II

This book covers matters regarding pesticides as well as biopesticides with a special focus on the associated subjects of pesticides management and sustainable development. An analysis on the ecological effects of pesticides, on the levels of contamination, biodegradation of pesticides, pesticides-soil interactions, pesticides management options, and on few methods of pesticides application, reporting data accumulated from across the globe has been presented in this book. The topics covered in the book will be beneficial to students, researchers, government officials and members of the civil society working in the field.

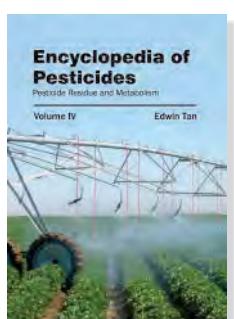


Plant Pathology

Edwin Tan	ISBN 978-1-63239-279-4	\$150.00 US	2015	Book Size 6"x9"	394pp. Colored	Hardback
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Encyclopedia of Pesticides: Chemical and Botanical Pesticides Volume III

A descriptive account on pesticides has been presented in this book, including the elucidation of the current developments in chemical as well as botanical pesticides. Pesticides are regarded as potential molecules to fight against pests, weeds, diseases and insects in various systems like horticultural cropping system, agriculture as well as health management systems. Chemical pesticides are extremely efficient against the target organism. However, they also have toxic effects on numerous non-target species and rising environmental issues bring forth the topics of assessment of their toxicity and safety. The impacts of chemical pesticides on earthworms, fishes, advantageous microbes and natural enemies in agricultural ecosystems have been elucidated in this book. Moreover, the properties of pesticides to disturb the functioning of endocrine systems along with characteristics of non-conventional pesticide compounds have been descriptively discussed. The book also presents elaborative information regarding the current technology on use of biomarkers in pesticide analysis.



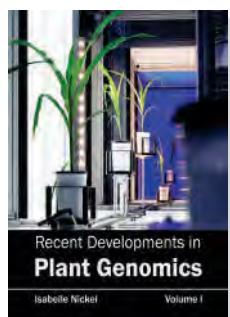
Plant Pathology

Edwin Tan	ISBN 978-1-63239-280-0	\$120.00 US	2015	Book Size 6"x9"	283pp. Colored	Hardback
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Encyclopedia of Pesticides: Pesticide Residue and Metabolism Volume IV

The growing population in the world requires an increase in the food production and intensive health care systems. Usage of chemical pesticides is inescapable for managing insects in agriculture, disease transmission, weeds and harmful microbes. Due to the current concern about the environment, checking and estimating pesticide residue has become very important in crop plants, soil, food, water and other ecosystems. This book discusses new innovative trends to identify pesticide residue in animal origin food, crop plants and fishes. It also expands on the various advanced extraction methods used in preparing samples for residue analysis. Aside of residue assays, metabolism and degradation of pesticide compounds like chlorpyrifos, fenamophos, heptachlor, pirimiphos and other organic pesticides have also been discussed within the book.

Agricultural Sciences

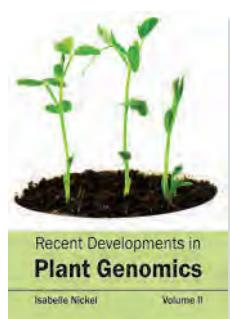


Genetics

Isabelle Nickel	ISBN 978-1-63239-536-8	\$150.00 US	2015	Book Size 8.5"x11"	210pp. Colored	Hardback
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Recent Developments in Plant Genomics: Volume I

The book elucidates the usage of plant species for genomics as well as in-depth discussions about the ramifications of the research in this field. New and advanced descriptions of the tools in bioinformatics in the field of plant genomics is provided and research on mapping the gene expressions in plants are detailed here. This book is an essential guide for all those whose future studies or research is in the area of plant genomics.

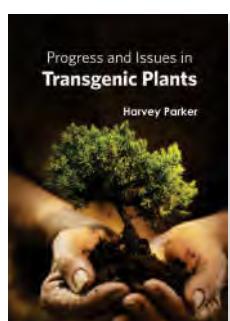


Genetics

Isabelle Nickel	ISBN 978-1-63239-537-5	\$150.00 US	2015	Book Size 8.5"x11"	204pp. Colored	Hardback
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Recent Developments in Plant Genomics: Volume II

The book elucidates the usage of plant species for genomics as well as in-depth discussions about the ramifications of the research in this field. New and advanced descriptions of the tools in bioinformatics in the field of plant genomics is provided and research on mapping the gene expressions in plants are detailed here. This book is an essential guide for all those whose future studies or research is in the area of plant genomics.

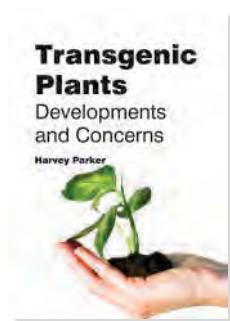


Genetic Engineering

Harvey Parker	ISBN 978-1-63239-518-4	\$110.00 US	2015	Book Size 6"x9"	234pp. Colored	Hardback
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Progress and Issues in Transgenic Plants

This book on transgenic plants is a compilation of information by veteran researchers from across the world. Progress of effective transformation protocols is becoming an integral strategy to traditional breeding methods for the enhancement of crops. This book evaluates the effect of genetically transformed crops on biosafety. It is structured into two sections namely, Metabolomics and Biosafety. It would be beneficial to students, researchers and botanists.



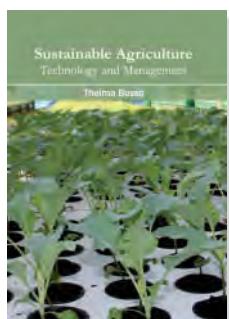
Genetic Engineering

Harvey Parker	ISBN 978-1-63239-598-6	\$120.00 US	2015	Book Size 6"x9"	268pp. Colored	Hardback
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Transgenic Plants: Developments and Concerns

This book on transgenic plants is an essential contribution to the field as it includes information by veteran researchers from across the world. Progress of effective transformation protocols is becoming an integral strategy to traditional breeding methods for the enhancement of crops. This book contains the novel developments carried regarding the optimization of transformation techniques. It is structured into two sections namely, Application and Crop Improvement. This book will serve as a valuable information guide to students, researchers and botanists.

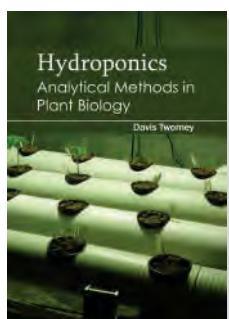
Agricultural Sciences



Thelma Bosso	ISBN 978-1-63239-577-1	\$140.00 US	2015	Book Size 6"x9"	307pp. Colored	Sustainability
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Sustainable Agriculture: Technology and Management

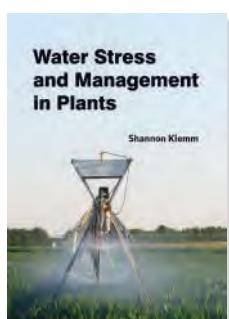
Sustainable agriculture is basically defined as the practice of agriculture through environment friendly techniques. In this book, topics pertaining to resource management for sustainable agricultural development have been presented. The book discusses the usage of water and waste management for viable agricultural development including factors like irrigation management to prevent soil and ground water salinization, production of solid fuel from oil palm waste, sustainable ecomaterials and biorefinery from agroindustrial waste, nonpoint pollution from agriculture and livestock activities on surface water. It further discusses about sustainable management of dryland resources especially carbon sequestration under changing climate scenario. The book also focuses on effective nutrient management for sustainable crop productivity in various agro-climatic conditions, soil quality and productivity enhancement under rainfed conditions. Impact of conservation tillage, agricultural tillage and agricultural traffic on soil properties has also been elucidated in the book.



Davis Twomey	ISBN 978-1-63239-427-9	\$120.00 US	2015	Book Size 6"x9"	256pp. Colored	Hydroculture
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Hydroponics: Analytical Methods in Plant Biology

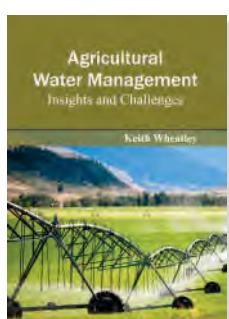
The origin of the word Hydroponic lies in Latin and it literally means working water. This book presents the readers with an insight into the necessities and methods which need to be taken into account to yield better crop outcomes in hydroponics. The book mainly stresses on facts like making of hydroponic nutrient mixture, application of these methods for studying biological approaches and ecological restraints, and production of vegetables and ornamentals hydroponically. The book begins with a general discussion on the nutrient blend used for hydroponics and goes forward describing the vitro hydroponic culture method for vegetables. The book also encompasses an elaborated study about the functions of hydroponics in the framework of analytic discoveries in plant responses and bearings to abiotic stresses and on the issues related to the reuse of culture mixtures and ways to overcome them. It gives knowledge about the functions of hydroponic schemes in examining plant-microbe-ecological communications and in varied approaches of plant biological studies, understanding of root uptake of nutrients and use of hydroponics in environmental cleansing of harmful and polluting elements.



Shannon Klemm	ISBN 978-1-63239-620-4	\$140.00 US	2015	Book Size 6"x9"	312pp. Colored	Water Management
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Water Stress and Management in Plants

This extensive book discusses various problems related to water stress as well as management in plants. Water stress in plants occurs when the transpiration rate becomes severe, or when the supply of water to their roots gets restricted and the central reason for this phenomenon is water deficit, for example, high soil salinity or drought. Therefore, the ability to endure such stress is of extreme economic significance. Plants attempt to adjust to the stress circumstances with a collection of biochemical and physiological interventions. This book consists of contributions made by authors from across the world and provides a comprehensive picture on the mechanism and adaptation aspects of water stress. The main aim of this book is to provide a thoughtful collection of viewpoints which will serve as a valuable source of reference for workers in all fields of plant sciences. The information elucidated in this book will be highly beneficial in formulating techniques to overcome water stress in plants.

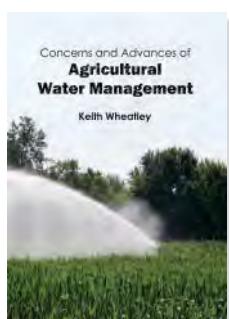


Keith Wheatley	ISBN 978-1-63239-059-2	\$120.00 US	2015	Book Size 6"x9"	270pp. Colored	Water Management
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Agricultural Water Management: Insights and Challenges

Various perspectives and challenges in agricultural water management have been discussed in detail in this book. Food security came up as a problem in the first decade of the 21st century, questioning the sustainability of humankind, which is certainly associated directly to the agricultural water management that has varied dimensions and needs integrative expertise in order to be dealt with. The aim of this book is to integrate the subject matter that deals with the modeling, auditing and assessment technique; and profitability, equity and irrigation water pricing in a single text. The book serves as a descriptive reference for professionals, students and researchers working on distinct aspects of agricultural water management. It is a comprehensive compilation of information regarding content revealing situations from distinct continents like USA, Europe, Africa, Australia and Asia.

Agricultural Sciences

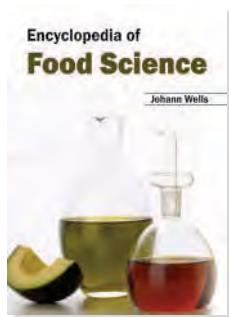


Water Management

Keith Wheatley	ISBN 978-1-63239-127-8	\$90.00 US	2015	Book Size 6"x9"	210pp. Colored	Hardback
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Concerns and Advances of Agricultural Water Management

This book highlights the concerns related to food security and agricultural water management. Food security came up as a problem in the first decade of the 21st century, questioning the sustainability of humankind, which is certainly associated directly to the agricultural water management that has varied dimensions and needs integrative expertise in order to be dealt with. The aim of this book is to integrate the subject matter that deals with sustainable irrigation management & development and strategies for irrigation water supply & conservation in a single text. It is a comprehensive compilation of information regarding content revealing situations from distinct continents. Several case studies have been elucidated in this book to provide the readers with a general scenario of the problem, challenges and perspective of irrigation water use. The book serves as a descriptive reference for professionals, students and researchers working on distinct aspects of agricultural water management.

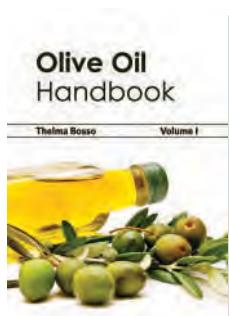


Food Science

Johann Wells	ISBN 978-1-63239-248-0	\$150.00 US	2015	Book Size 8.5"x11"	215pp. Colored	Hardback
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Encyclopedia of Food Science

This book provides all the basic and advanced concepts of fruit science. It includes different aspects of food science, such as medical problems associated with the food consumption of some specific types. With the ever growing need of food in order to satisfy the population, food scientists and specialists have compiled their knowledge of food science in this book.

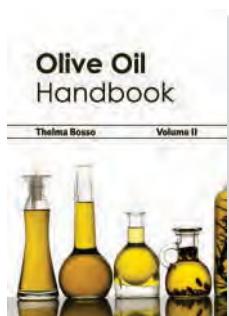


Food Science

Thelma Bosso	ISBN 978-1-63239-491-0	\$120.00 US	2015	Book Size 6"x9"	258pp. Colored	Hardback
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Olive Oil Handbook: Volume I

The growth of the olive oil industry and health-promoting impacts associated with olive oil has reinforced the quest for novel information, stimulating a broad spectrum of research. This book is a source of currently compiled information. It encompasses a wide spectrum of topics under the section olive oil composition, analysis and quality, which includes quality evaluation and different techniques applied in authenticating the quality of olive-oil. This book will be an important reference for food scientists, biotechnologists, nutritionists, researchers, olive oil producers and consumers.



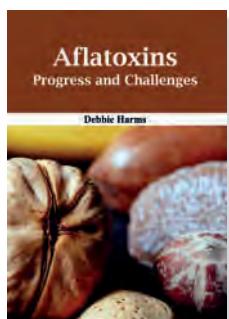
Food Science

Thelma Bosso	ISBN 978-1-63239-492-7	\$120.00 US	2015	Book Size 6"x9"	277pp. Colored	Hardback
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Olive Oil Handbook: Volume II

The health-promoting impacts associated with olive oil and the growth of the olive oil industry has reinforced the quest for novel information, stimulating a broad spectrum of research. This book is a source of currently compiled information. It incorporates a wide spectrum of topics organized under the sections: Olive Oil Extraction & Waste Water Treatment, Bioavailability & Biological Properties of Olive Oil Constituents and Innovative techniques for the production of olive oil based products. This book will serve as useful source of information for a broad audience, mainly food scientists, nutritionists, biotechnologists, researchers, pharmacologists, olive oil producers and consumers.

Agricultural Sciences

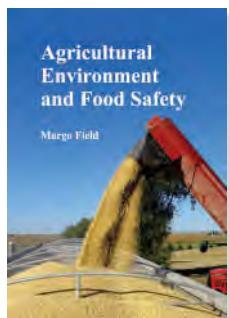


Food Safety

Debbie Harms	ISBN 978-1-63239-056-1	\$160.00 US	2015	Book Size 6"x9"	403pp. Colored	Hardback
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Aflatoxins: Progress and Challenges

Challenges and progress in the field of aflatoxins are described extensively in this book. It features latest developments in aflatoxins research from epidemiology to molecular genomics and control measures, biocontrol processes, modern analytical techniques, economic concerns and underlying mechanisms of contamination processes. This book will update readers on various cutting-edge facets of aflatoxins research with updated information helpful for mycologists, toxicologists, microbiologists, agriculture scientists, plant pathologists and pharmacologists, who may be interested in understanding the influence, significance and current developments within the field of aflatoxins with a focus on control strategy.

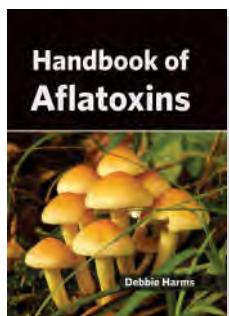


Food Safety

Margo Field	ISBN 978-1-63239-057-8	\$90.00 US	2015	Book Size 6"x9"	170pp. Colored	Hardback
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Agricultural Environment and Food Safety

Safety of food and agricultural products is a topic of essential interest in developing countries. This book talks about the policies dealing with both the latest advancements and growing concerns in the domain of agricultural environment and food safety. Reforms and policies undertaken in China in parallel with its rise as a potential superpower have been taken into account as a case study in this book. The primary theories have been taken from Kanshokufuji, a new concept concerned with a secure food system in a stable agro-environment. This unique concept was proposed by a reputed researcher in this field; Prof. Nanseki, Kyushu University, China. It indicates that food demand and supply cannot be mutually exclusive in a location, given the significance of maintaining suitable conditions for sustainability of environment and biodiversity in the region. It is an essential concept for handling environmental issues and related challenges in food safety. Keeping this in mind, several studies were carried out in rural and urban China at the Research Institute for East Asia Environments (RIEAE), Kyushu University to analyze the current state of environment, food, and agriculture in the country. Those results have been published in this book, along with consequences and suggestions. Hopefully, this book will prove to be a valuable source of information for policy-makers, researchers and industry experts working in associated fields of food, agriculture and environment.

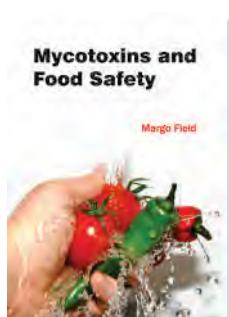


Food Safety

Debbie Harms	ISBN 978-1-63239-367-8	\$150.00 US	2015	Book Size 6"x9"	379pp. Colored	Hardback
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Handbook of Aflatoxins

Researches show that aflatoxins are responsible for deteriorating around 25% of the world's food crops. This book talks about several topics related to aflatoxin contamination, its measurement & analysis and approaches for prevention & control of aflatoxins on crops and different foods. It talks about the essence that these subjects have for a country, taking the case of China as an example and mentions instances that illustrate the ubiquity of aflatoxins in several commodities. This book further discusses the concept of measurement and examination of aflatoxins from historical facets, legal challenges, and the state of the art procedures and techniques. It concludes with discussions on actions to avoid and mitigate the genotoxic effect of one of the most discernible aflatoxins, AFB1. Also, it marks the interventions to decrease known aflatoxin-induced diseases at agricultural and dietary levels and approaches that can monitor aflatoxin levels. Along with the precautionary management, many approaches have been employed, comprising of physical, chemical biological cures and solvent extraction to detoxify AF in contaminated feeds and feedstuffs.



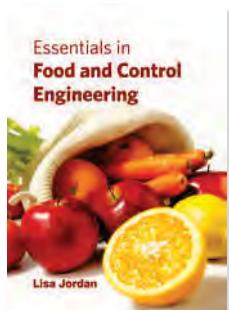
Food Safety

Margo Field	ISBN 978-1-63239-472-9	\$120.00 US	2015	Book Size 6"x9"	280pp. Colored	Hardback
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Mycotoxins and Food Safety

Mycotoxins are toxic chemicals produced by bacteria bound on crops and can adversely affect the health at each trophic level. This book contains valuable information on the presence of fungi and mycotoxins in various African nations, their effect on health and possible intrusion control approaches against them in developing nations; specifically in Africa. Hence, it will be useful for students, academicians, experts and decision makers in the spheres of medical science, agriculture, food science and technology, trade and economics. It will also act as a helpful text for food regulation officers. Though significant amount of information on mycotoxins is available from the developed countries, information from Africa is sparse and generally unavailable in an extensive manner. This book is an attempt at bridging that gap, benefitting experts in developing nations whose research work has remained restricted due to limited access to knowledge.

Agricultural Sciences



Lisa Jordan

ISBN
978-1-63239-325-8

\$140.00 US

2015

Book Size
6"x9"

302pp.
Colored

Hardback

Food Industry

Essentials in Food and Control Engineering

This book discusses essential information regarding the field of food and control engineering. It is a valuable source of reference for understanding the concepts of bioengineering and processing control. It covers important topics like progress in food process engineering, food engineering, food quality and security, control systems, food irradiation, economics processing and machine vision. Reputed practitioners engaged in the field of food engineering have contributed information in this book.



Lisa Jordan

ISBN
978-1-63239-336-4

\$160.00 US

2015

Book Size
6"x9"

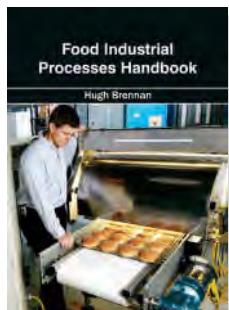
417pp.
Colored

Hardback

Food Industry

Food Engineering Handbook

This book consists of several important topics which will be of interest to food engineering and related professions. Some of the topics discussed within the book include the importance of working in multidisciplinary teams, and the advantages of developing the field of food engineering by assimilating specialists from the industry, academia and government. It also elucidates issues related to the relevance of developing food engineering based upon approved and accepted principles, and the unmatched advantage of working as globally as possible in the understanding and development of food engineering principles.



Hugh Brennan

ISBN
978-1-63239-337-1

\$160.00 US

2015

Book Size
6"x9"

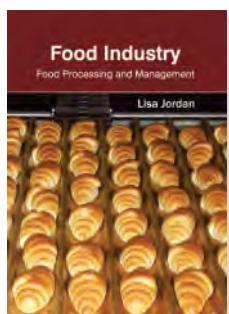
427pp.
Colored

Hardback

Food Industry

Food Industrial Processes Handbook

This book is based on the various food industrial processes. Nowadays, food industry consumers worldwide are becoming more cautious, knowledgeable and consequently demanding, since food is a basic necessity of every being. The consumers want the industries to maintain a food quality at par with the standards set by food industry organizations. Problems like global warming, climate change and greenhouse gas emissions cause disasters like floods, droughts, fires and storms which result in massive loss for the agricultural and husbandry sectors and thus, add to the already prevalent threat of food scarcity to mankind. This book is a collection of studies which take on the prevailing food industry related issues. These works were chosen to serve the purpose of investigation guides and documentations based on modern scientific and technical references. Therefore, this book can be used by students as well as industrialists or farmers. Not only are the issues related to control of food processing and production being discussed, but also the engineering, economic and financial avenues have been brought into light for the food industry managers.



Lisa Jordan

ISBN
978-1-63239-338-8

\$160.00 US

2015

Book Size
6"x9"

470pp.
Colored

Hardback

Food Industry

Food Industry: Food Processing and Management

Food industry consumers worldwide are becoming more cautious, knowledgeable and consequently demanding, since food is a basic necessity of every being. Consumers want the industries to maintain a food quality at par with the standard set by food industry organizations. Problems like global warming, climate change and greenhouse gas emissions cause disasters like floods, droughts, fires and storms which result in massive loss for the agricultural and husbandry sectors and thus, add to the already prevalent threat of food scarcity to mankind. The book covers food processing, management and socio-economic aspects related to food industry. This book will prove to be a valuable account of knowledge which will be of great help to students, researchers and others willing to acquire information regarding food processing and management.

Agricultural Sciences

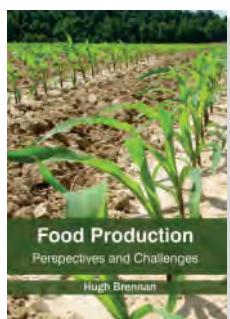


Food Industry

Lisa Jordan	ISBN 978-1-63239-339-5	\$120.00 US	2015	Book Size 6"x9"	290pp. Colored	Hardback
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Food Industry: Food Types, Quality and Safety

Nowadays, food industry consumers worldwide are becoming more cautious, knowledgeable and consequently demanding, since food is a basic necessity of every being. Consumers want the industries to maintain a food quality at par with the standard set by food industry organizations. Problems like global warming, climate change and greenhouse gas emissions cause disasters like floods, droughts, fires and storms which result in massive loss for the agricultural and husbandry sectors and thus, add to the already prevalent threat of food scarcity to mankind. The book addresses issues related to types of food, food quality and safety. This book will prove to be a valuable account of knowledge which will be of great help to students, researchers and others willing to acquire information regarding food industry, its quality and safety.

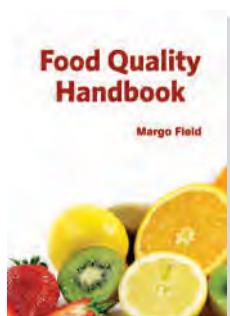


Food Industry

Hugh Brennan	ISBN 978-1-63239-340-1	\$120.00 US	2015	Book Size 6"x9"	282pp. Colored	Hardback
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Food Production: Perspectives and Challenges

The perspectives and challenges related to the field of food production are covered in this book. It talks about food production, manufacturing and certain issues related with its demand and supply in various countries of the world. Due to the prevailing food crisis, it is very important that a proper technique of food production is adopted and quality and safety of the food produced is also checked. This book discusses social issues like food shortage which emerge from insufficient food production in the third world countries. There is special focus on sustainable food production case studies in countries like semi-arid Jamaica, Africa, Caribbean, Nigeria, Pacific Island, Mexico and Brazil. This book also highlights the problems like quality check and safety and basically deals with scientific methods for improving food quality and safety. It discusses, in detail, the alternate method of control on deterioration of food, which is physical, rapid and analytical. Other problems related to animal husbandry, dairy production and hormones in food producing animals; and approaches and tasks in maize and rice production, have been discussed in the book.

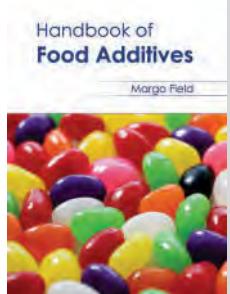


Food Industry

Margo Field	ISBN 978-1-63239-341-8	\$80.00 US	2015	Book Size 6"x9"	146pp. Colored	Hardback
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Food Quality Handbook

The characteristics of food that are satisfactory to the consumers are collectively known as food quality. This text describes important scientific avenues for the development and growth of food quality and also offers food scientists with relevant information for future advancements. Food analysts, scientists and even research workers will benefit from the elaborated methods and experimental information provided in the book and industrial experts can use the information as a noteworthy reference source. The book can most aptly be used as an instrument by analysts for increasing their knowledge with the latest scientific data for quality assessment. Case studies in the book present knowledge on the development of food quality in marine and land creatures in natural habitat.



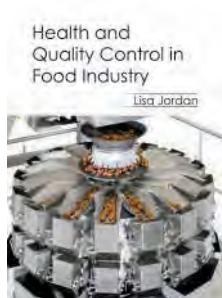
Food Industry

Margo Field	ISBN 978-1-63239-396-8	\$120.00 US	2015	Book Size 6"x9"	268pp. Colored	Hardback
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Handbook of Food Additives

This detailed book mainly focuses on food additives and provides valuable information. A food additive is any substance which is neither usually consumed as food nor used as a food ingredient, whether or not it has nutritive value. The main role of food additives, both natural and manufactured, is to bring back the colors of food lost during processing. These are also used as sweetening materials, as guards against food poisoning and preventive agents against degradation of food during storage. This book gives an insight into traditional and modern food preservation avenues and provides review on food preservatives and additives. Furthermore, it gives a detailed description about assessment of agro-industrial waste based on their considerable capacity to produce industry-relative food additives. In addition to this, it also covers the appraisal of efficient reproductive and upgraded toxic context of some recently synthesized food additives in market. At last, more aspects related to the identification and research of materials used in food additives have been discussed with emphasis on the need for more knowledge in the contemporary scenario for the development of new materials as food additives.

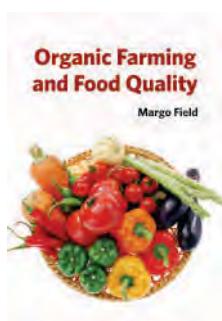
Agricultural Sciences



Food Industry						
Lisa Jordan	ISBN 978-1-63239-417-0	\$110.00 US	2015	Book Size 6"x9"	248pp. Colored	Hardback

Health and Quality Control in Food Industry

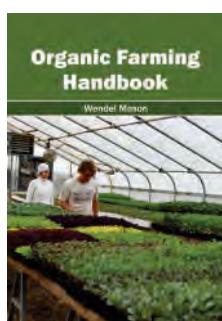
Substantial information regarding food, quality control and health is provided in this book. Food is an essential necessity for the survival of humankind and this book presents an extensive analysis of food industry that runs the supply of food, its current trends and the way forward to ensure food security and health. The global food industry serves a population of seven billion people and has the biggest market. This book highlights the issues of world hunger and discusses how food shortages endanger water and energy supply. It is organized under two sections: health aspects and quality control. Food producers, industry experts, corrosion practitioners, academicians and designers of food processing equipment have made valuable contributions to this book based on their extensive knowledge and experience. They present different perspectives and approaches in the diverse aspects of food science and technology.



Food Industry						
Margo Field	ISBN 978-1-63239-493-4	\$90.00 US	2015	Book Size 6"x9"	198pp. Colored	Hardback

Organic Farming and Food Quality

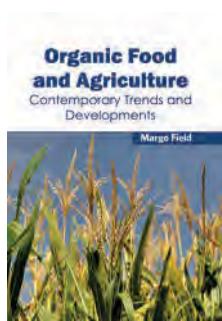
The process of organic farming and food quality has been described in detail in this insightful book. Organic farming does not necessarily require farmers to adopt conventional (primitive) techniques of farming. Several farming methodologies that were used in the past still hold utility in the present day scenario. Organic farming integrates the best of these methods with modern scientific knowledge. The aim of this book is to provide a compilation to the readers, which describes a multitude of distinct existing studies on organic farming, making it easy for them to compare methodologies, outcomes and conclusions. As a result, studies from countries like Poland, Slovenia, Romania, Finland, etc. have been integrated in this book. By acting as a platform to compare outcomes and conclusions from distinct countries and continents, this book will help in developing a novel perspective in organic farming and food production quality as well as help researchers and students from all over the world to attain novel results in this field.



Food Industry						
Wendel Mason	ISBN 978-1-63239-494-1	\$90.00 US	2015	Book Size 6"x9"	198pp. Colored	Hardback

Organic Farming Handbook

This book aims at presenting a number of studies on the subject of organic farming in order to enable the readers to compare results, methods and conclusions. Therefore, studies from different parts of the world have been included in the form of different topics. It is expected that this opportunity to compare results from different countries will give way to a new perspective on the subject, allowing the typical characteristics of organic agriculture and organic food to be understood more clearly. The renowned experts who have contributed in this book have shared their experience and expertise in this book for the benefit of researchers and students from all over the world and to help them in reaching new results in the field of organic agriculture and organic food.



Food Industry						
Margo Field	ISBN 978-1-63239-495-8	\$110.00 US	2015	Book Size 6"x9"	228pp. Colored	Hardback

Organic Food and Agriculture: Contemporary Trends and Developments

This book elucidates important advancements and perspectives relating to organic food and agriculture. After nearly three decades of uninterrupted advancement, the global phenomenon of organic food and farming is confronting novel challenges as markets are maturing and the effects of global recession is shaping the expectations of farmers and consumers. This book considers the role of social sciences in comprehending the way shopping choices of consumers, evolution of novel national markets, and information regarding the process of transformation of established organic sectors in Europe and North America in response to the changes organic movement has created. Encompassing a broad spectrum of social science fields, methods and outlooks, the book serves as an outstanding beginner guide for readers and offers new innovations for experts already familiar with the field.

Agricultural Sciences

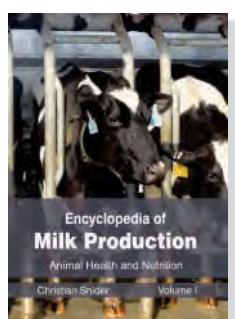


Food Industry

Lisa Jordan	ISBN 978-1-63239-591-7	\$120.00 US	2015	Book Size 6"x9"	264pp. Colored	Hardback
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Technological and Social Insights in Food Industry

The rapid growth in processed food industry has led to new challenges and issues. Food is necessary for the survival of humankind and this book aims towards giving an overview of the food industry that runs the supply of food and thereby ensures health and comfort. The global food industry serves a population of seven billion people and has the biggest market. This book highlights the issues of world hunger and discusses how food shortages endanger water and energy supply. It covers two broad sections such as "Scientific and technological aspects" and "Social and economic issues". It further elaborates about how food production can be affected by climate change, droughts, global warming, floods, greenhouse emissions and storms. Food producers, industry experts, corrosion practitioners, academicians and designers of food processing equipment have made valuable contributions to this book based on their extensive knowledge and experience. They present different perspectives and approaches in the diverse aspects of food science and technology.

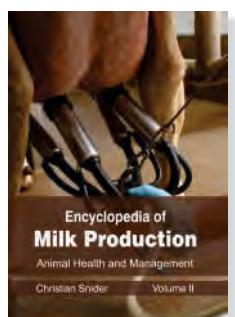


Dairy Science

Christian Snider	ISBN 978-1-63239-272-5	\$150.00 US	2015	Book Size 6"x9"	380pp. Colored	Hardback
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Encyclopedia of Milk Production: Animal Health and Nutrition Volume I

This book is aimed at presenting new developments in knowledge related to milk production. It is dedicated to detailed analysis of various fields with aspects of genetics factors and the molecular and cellular mechanisms, animal supervision, nutrition and husbandry. This book will prove to be beneficial for students, researchers, teaching staff and practicing professionals associated with dairy science, animal science, food science, nutrition, physiology, biochemistry, veterinary medicine and related fields. There are extensive references in this book which will help readers in future endeavors regarding the developments in this field.

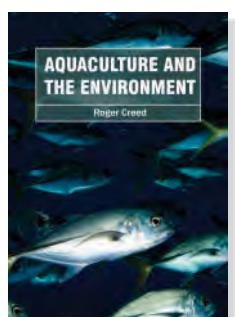


Dairy Science

Christian Snider	ISBN 978-1-63239-273-2	\$160.00 US	2015	Book Size 6"x9"	409pp. Colored	Hardback
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Encyclopedia of Milk Production: Animal Health and Management Volume II

This book deals with various aspects related to dairy production including animal nutrition, supervision, breeding and their health. It presents first-hand experience of experts and scientific style of interpreting and integrating available data with their own views. This book will be beneficial for students, researchers, and practitioners engaged in dairy science, animal science, nutrition, physiology, veterinary medicine and other related fields. There are extensive discussions in the book which will be of great help to readers for future references regarding the latest developments in this field.



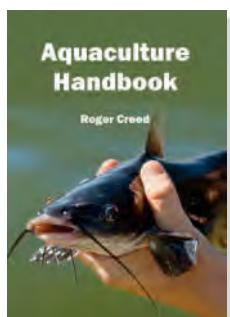
Fisheries

Roger Creed	ISBN 978-1-63239-080-6	\$120.00 US	2015	Book Size 6"x9"	258pp. Colored	Hardback
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Aquaculture and the Environment

Aquaculture is the science of cultivating aquatic animals and plants in fresh or marine waters. It is the extended version of fishing, derived from the fact that harvests of wild sources of fish and other aquatic species cannot keep up with the demand of an increasing human population. Amplification of aquaculture can result in less concern for the environment and therefore, the first prerequisite for sustainable aquaculture is clean water. However, poor management of aquatic species production can alter or even destroy existing wild habitats, increase local pollution levels or negatively impact local species. Keeping this in mind, aquatic managers along with scientists are searching for modern and more efficient solutions to various issues regarding fish farming. This book offers recent research outcomes on the relationship between aquaculture and environment, and consists of case studies from all over the world with the goal of improving and performing sustainable aquaculture.

Agricultural Sciences

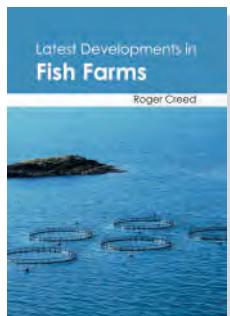


Fisheries

Roger Creed	ISBN 978-1-63239-081-3	\$150.00 US	2015	Book Size 6"x9"	405pp. Colored	Hardback
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Aquaculture Handbook

Aquaculture is the practice of raising fish, aquatic plants and other aquatic species for commercial purposes. This book offers an insight into a diversity of topics related to aquaculture. It discusses fish nutrition, application of genetics in agriculture, present techniques for limiting lipid oxidation and melanosis in aquacultural products, and culture techniques and management. The text of this book has been written by leading experts from their respective areas. It will be a beneficial resource for students and professionals in aquaculture and biotechnology.

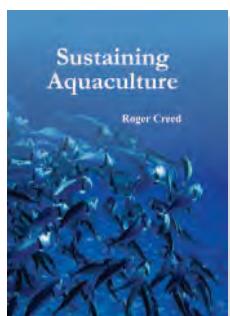


Fisheries

Roger Creed	ISBN 978-1-63239-444-6	\$120.00 US	2015	Book Size 6"x9"	262pp. Colored	Hardback
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Latest Developments in Fish Farms

In this book, the latest developments and advancements for sustainable management of fish farms have been elucidated. Scientific knowledge is a prerequisite for assessing the strategy of fish farming. For making careful risk assessments, it is always recommended to re-evaluate the data according to new developments in research. Updated information should be brought in line with the required conditions of the farm. This book serves as a valuable tool to provide the results in research and act as a source for gathering information. It includes figures and photos based on scientific literature and explains various topics with the help of tables, text and figures. It aims to benefit scientists, researchers and students interested in this field.

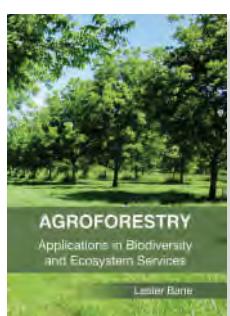


Fisheries

Roger Creed	ISBN 978-1-63239-587-0	\$160.00 US	2015	Book Size 6"x9"	428pp. Colored	Hardback
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Sustaining Aquaculture

Aquaculture has been growing rapidly, and future advancements will rely on the integration of scientific knowledge of varied fields such as molecular and cellular biology, and ecology. Comprehending the link between farmed species and their pathogens and parasites can be significantly challenging to environment. Scientists are making continual efforts to build a model for aquaculture that does not harm environment and offers a dependable source of healthy seafood. This book has been well described and comprises of contributions from prominent global authors, providing rich quality scientific topics focusing on important issues for successful health management of cultured aquatic animals. This collective effort has been aimed at providing extensive information useful for both educational and industrial sectors.



Forestry

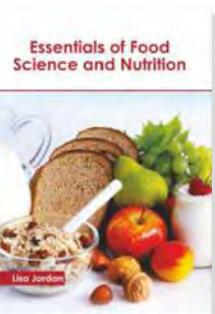
Lester Bane	ISBN 978-1-63239-060-8	\$90.00 US	2015	Book Size 6"x9"	176pp. Colored	Hardback
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Agroforestry: Applications in Biodiversity and Ecosystem Services

This book introduces various agroforestry practices and its diverse applications. Agroforestry reduces deforestation and forest degradation, providing livelihoods and a safe zone for species outside properly protected grounds. However, extensive acceptance of agroforestry innovations is still controlled by numerous factors including design features of applicable agroforestry innovations, apparent needs, policies, availability and distribution of factors of production, and awareness of risks. Understanding the factors that control the adoption of agroforestry and how they impact its implementation is crucially important. This book explains agroforestry practices, their impact on biodiversity, and also identifies policy issues for promoting adoption of agroforestry practices and reduction of unwanted policies.

Food Science, Health and Nutrition

Food Science



Lisa Jordan

ISBN
978-1-63239-842-0

\$140.00 US

2017

Book Size
8.5"x11"

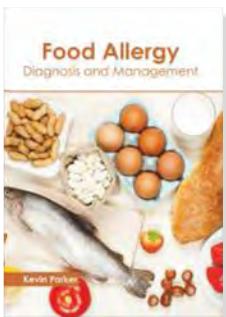
240pp.
Colored

Hardback

Essentials of Food Science and Nutrition

Food science refers to the study of quality, processing, chemical traits and physical traits and deterioration of food. It unifies the elements of biochemistry, microbiology and chemical engineering for a better understanding for the traits of food. In this book using case studies and examples, constant effort has been made to make the understanding of the difficult concept of food science and nutrition as easy and informative as possible, for the readers. This book provides thorough information about food science and nutrition. It gives insights into the role of nutrition in food and how it is essential for the human body. The aim of this text is to present researches that have transformed this discipline and aided its advancement. It will help the readers in keeping pace with the rapid changes in this field.

Food Science



Kevin Parker

ISBN
978-1-63239-856-7

\$140.00 US

2017

Book Size
8.5"x11"

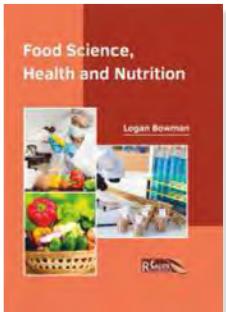
237pp.
Colored

Hardback

Food Allergy: Diagnosis and Management

Hypersensitivity to certain food items causes food allergy. Certain foods such as peanuts, eggs and milk are the most common allergens. This book on food allergy deals with themes related to clinical manifestations of food allergy including its causes, diagnosis and effects. This book aims to shed light on some of the unexplored aspects of food allergy and the recent researches in this field. It is a compilation of chapters that discuss the most vital concepts and emerging trends in this field. It will serve as a valuable source of reference for graduate and post graduate students. This book with its detailed analysis and data, will prove immensely beneficial to professionals and experts involved in this area at various levels.

Food Science



Logan Bowman

ISBN
978-1-63239-843-7

\$145.00 US

2017

Book Size
7.75"x10.5"

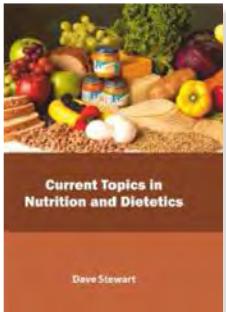
252pp.
Colored

Hardback

Food Science, Health and Nutrition

Food science is the science dedicated to the study of food and its characteristics. Nutrition is the science that exemplifies the interaction of nutrients and other substances in food. The aim of this book is to present researches that have transformed this discipline and aided its advancement. This book highlights the relationship between food science, health and nutrition with special emphasis on the importance of nutrients in food and their impact on health. The text covers a broad spectrum of topics under food science including its sub-disciplines such as food engineering, food chemistry, etc. For someone with an interest and eye for detail, this book covers the most significant topics in the field of food science and nutrition. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals alike.

Nutrition



Dave Stewart

ISBN
978-1-63239-894-9

\$142.00 US

2017

Book Size
7"x10"

242pp.
Colored

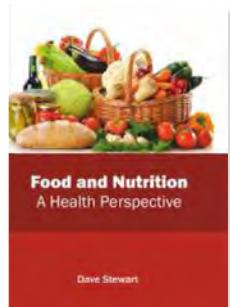
Hardback

Current Topics in Nutrition and Dietetics

Nutrition is defined as the science of interaction between nutrients in relation to an organism's growth, wellbeing and disease. This book on nutrition and dietetics discusses topics related to nutritional practices and health. Dietary patterns and fitness levels either alleviate or accelerate disease present in the human body, and the pattern of interaction between nutrients is vital for study of growth and development of the body in general. This book provides significant information of this discipline to help develop a good understanding of nutrition, dietetics and related fields. It attempts to understand the multiple branches that fall under this discipline and how such concepts have practical applications. This book provides a lucid framework that can be very helpful for students and researchers in the field of dietetics, nutrition and microbiology.

Food Science, Health and Nutrition

Nutrition



Dave Stewart

ISBN
978-1-63239-898-7

\$132.00 US

2017

Book Size
7"×10"

222pp.
Colored

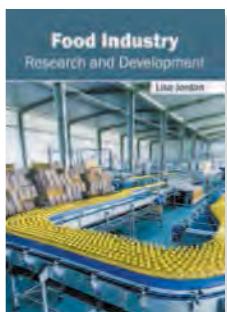
Hardback

Food and Nutrition: A Health Perspective

This book on food and nutrition deals with the right practices that maintain human health, growth and well-being. Nutrition and dietetics provide dietary patterns that can alleviate problems such as obesity as well as malnutrition. This book is appropriate for students seeking detailed information in this area as well as for experts. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Different approaches, evaluations, methodologies and advanced studies on food and nutrition have been included herein. It will provide comprehensive knowledge to the readers.



Food Science, Health and Nutrition

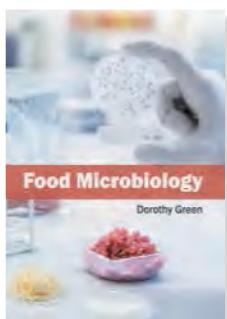


Food Science

Lisa Jordan | ISBN 978-1-63239-645-7 | \$150.00 US | 2016 | Book Size 8.5"x11" | 262pp. Colored | Hardback

Food Industry: Research and Development

Food being the most important of all biological needs stands first on the list of things required for survival. Food has undergone several changes owing to huge transformations in the living standards across the globe. Food Research is a multidisciplinary subject which involves the study and application of areas like food quality and safety, food chemistry and toxicology, food microbiology, food nutrition and health, food engineering and physical properties, novel foods and sensory analysis, etc. This book unfolds the innovative aspects of food industry which will be crucial for further research and progress of this field. It includes contributions of experts and scientists which will offer the readers innovative and detailed insights.

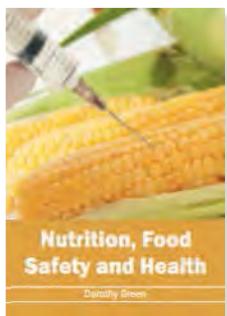


Food Science

Dorothy Green | ISBN 978-1-63239-642-6 | \$150.00 US | 2016 | Book Size 8.5"x11" | 261pp. Colored | Hardback

Food Microbiology

Food microbiology focuses on microbes that have both favourable and undesirable effects on the safety and quality of food. This book aims to understand the multiple branches that fall under the discipline of food microbiology such as food-borne microbes and their interactions with various foods, industrial and biotechnological exploitation of microbial diversity, microbiology of fermented foods, evolutionary dynamics of food-borne pathogenic microbes, genomics and functional genomics of pathogenic and value-adding technological microbes, development of probiotics as food supplements, etc. It also delves into its applications to food and process optimization, risk assessment, etc. This book covers the unexplored aspects of this area and serves as a reference text for the professionals and students engaged in this field.

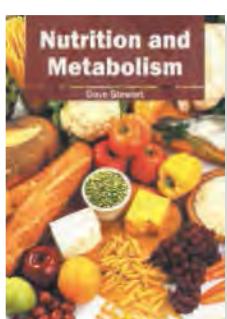


Food Science

Dorothy Green | ISBN 978-1-63239-707-2 | \$150.00 US | 2016 | Book Size 8.5"x11" | 275pp. Colored | Hardback

Nutrition, Food Safety and Health

Nutrition deals with studying the interaction of nutrients and their effect on growth and maintenance of the body. Food safety is the branch of science that deals with the effective handling, preparation, and preservation of food and health is the ability of living beings to adapt to the corresponding environment and protect themselves from the infections and diseases. All of these combine to form a synergic effect for the well-being of people. This book attempts to understand and explain various important topics such as human nutrition, food safety and toxicology, public health, nutrition, diet-related non communicable disease, food consumption, food intake, food security, etc. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in it. It will help the readers in keeping pace with the rapid changes in this field. This book will prove to be an asset for nutritionists, food scientists, health professionals and students alike.



Nutrition

Dave Stewart | ISBN 978-1-63239-655-6 | \$145.00 US | 2016 | Book Size 8.5"x11" | 249pp. Colored | Hardback

Nutrition and Metabolism

Nutrition studies the interaction of nutrients with other substances present in food while metabolism deals with biochemical transformations occurring inside body cells. They together combine the holistic study of diabetes, lipidemias, obesity, exercise physiology and metabolic syndrome. Both of these work in tandem to provide human beings the knowledge of the effects of various foods and physical activities. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It has been compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of these disciplines. This book will prove immensely beneficial to students and researchers in these fields.

Food Science, Health and Nutrition

Nutrition



Dave Stewart

ISBN
978-1-63239-711-9

\$150.00 US

2016

Book Size
8.5"x11"

269pp.
Colored

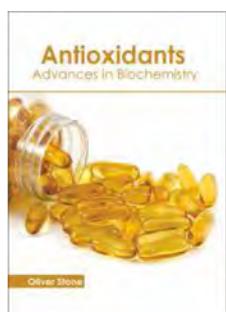
Hardback

Nutrition: Health and Metabolism

Nutrition is the branch of science that studies the effect of nutrients present in food on the growth and health of living organisms. Nutrition improves and maintains health and metabolism. Health is the ability of human beings to adapt and manage themselves when subjected to a change in their surroundings whether physical, mental or social whereas metabolism is the sum of all the reactions taking place inside a human body. The objective of this book is to give a general view of the different areas of nutrition and metabolism. It covers in detail some existent theories and innovative concepts revolving around this field. A number of latest researches have been included in this book to keep the readers up-to-date with the global concepts in this area of study. This book, with its detailed analysis and data, will prove immensely beneficial to professionals and students involved in this area at various levels. Those in search of information to further their knowledge will be greatly assisted by this book.



Biochemistry, Genetics, Biotechnology and Molecular Biology



Oliver Stone

ISBN
978-1-63239-805-5

\$142.00 US

2017

Book Size
8.5"x11"

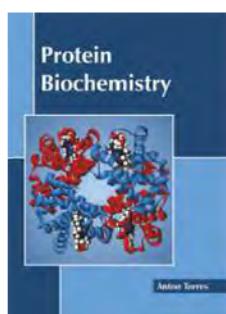
241pp.
Colored

Hardback

Biochemistry

Antioxidants: Advances in Biochemistry

A molecule that inhibits the oxidation of other molecules is called antioxidant. The aim of this book is to present researches that have transformed this discipline and aided its advancement. This book offers a wide range of topics that deal with the interrelationship of antioxidants with biochemistry. The text provides the readers with ample examples on how antioxidants are helpful in life processes. This book aims to understand multiple branches that fall under the discipline of antioxidant biochemistry and how such concepts have practical applications. It includes some of the vital pieces of work being conducted across the world, on various topics related to this vast field. This book is a vital tool for all researching and studying this field.



Anton Torres

ISBN
978-1-63239-803-1

\$142.00 US

2017

Book Size
8.5"x11"

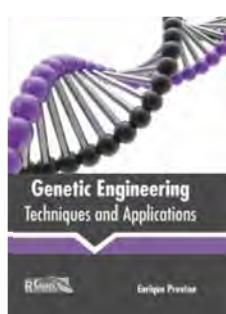
241pp.
Colored

Hardback

Biochemistry

Protein Biochemistry

This book on protein biochemistry explains themes related to protein bonding, protein folding and other similar protein dynamics that occur at a molecular level. The study of proteins is very important for the understanding of DNA molecules as they help in the synthesis of protein. Biochemical study of protein deals with protein structures that perform a variety of roles such as the processing of food and muscle movement which is extensively studied through kinematic systems and informatics analysis. This book unravels the recent studies in the field of protein biochemistry. It strives to provide a fair understanding about the discipline and to help better understand the latest advances within this field. This book is appropriate for students seeking detailed information in this area as well as for experts. It is a vital tool for all researching and studying this field.



Enrique Preston

ISBN
978-1-63239-870-3

\$120.00 US

2017

Book Size
7.75"x10.5"

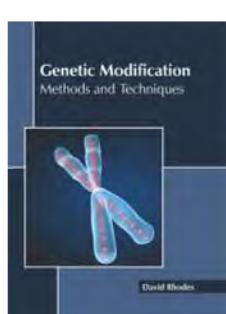
134pp.
Colored

Hardback

Genetics

Genetic Engineering: Techniques and Applications

Genetic engineering is the alteration of genome using biotechnology. It is a compilation of technologies used to modify the genetic makeup of cells, including the transfer of genes within and across species boundaries to produce improved or novel organisms. This book elucidates new techniques and their applications in a multidisciplinary approach keeping the focus on genetic engineering. Also included in this book is a detailed explanation of the various concepts and applications of this discipline in different fields like medicine, manufacturing, gene therapy, etc. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. Researchers and students in this field will be assisted by this book.



David Rhodes

ISBN
978-1-63239-860-4

\$140.00 US

2017

Book Size
8.5"x11"

240pp.
Colored

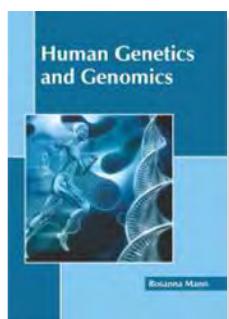
Hardback

Genetics

Genetic Modification: Methods and Techniques

This book provides comprehensive insights into the field of genetic modification. It elucidates the concepts and innovative models around prospective developments with respect to this subject. Genetic modification is the application of biotechnology to alter the genomes in order to enhance the characteristics of an alike organism. The main techniques used under this branch are gene transfer, molecular cloning, DNA synthesizing, gene targeting, etc. The aim of this field is to produce genetically modified organisms (GMOs), genetically modified food and most recently genetically modified crops. The objective of this text is to give a general view of the different areas of genetic modifications and its applications. Most of the topics introduced in the book cover new techniques and the applications of this field. Researchers and students in this subject will be greatly assisted by the text. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of genetic modification as easy as informative as possible, for the readers.

Biochemistry, Genetics, Biotechnology and Molecular Biology

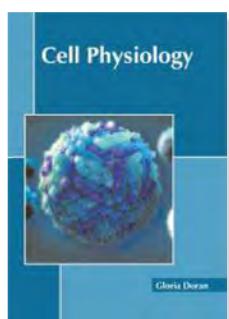


Genetics

Rosanna Mann	ISBN 978-1-63239-808-6	\$142.00 US	2017	Book Size 8.5" x 11"	241pp. Colored	Hardback
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Human Genetics and Genomics

Human genetics is study of heredity and inheritance as seen in human beings. It is interdependent on various other fields of science like genomics, molecular genetics, genetic counseling, population genetics, bio-chemical genetics, etc. This book unravels the recent studies in the field of human genetics and genomics. Also included in it is a detailed explanation of the various concepts and applications of this subject. The topics included in the text are of utmost significance and bound to provide incredible insights to readers. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of human genetics. This text will serve as a reference to a broad spectrum of readers, including biologists, genetic engineers, researchers, scientists and students involved with the field of human genetics across all levels.

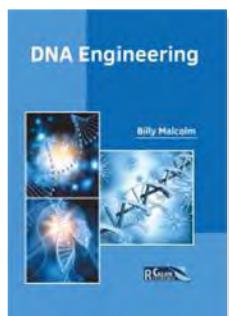


Cell Biology

Gloria Doran	ISBN 978-1-63239-815-4	\$142.00 US	2017	Book Size 8.5" x 11"	242pp. Colored	Hardback
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Cell Physiology

This book traces the progress of cell physiology and highlights some of its key concepts and applications. It elucidates new techniques and their applications in a multidisciplinary approach. Cell physiology is concerned with the study of cell functions and cell structure. It also examines the processes performed by cells to function. The topics included in this book are of utmost significance and bound to provide incredible insights to readers. It presents researches and studies performed by experts across the globe. This book will help the readers in keeping pace with the rapid changes in this field. Coherent flow of topics, student-friendly language and extensive use of examples make this text an invaluable source of knowledge.

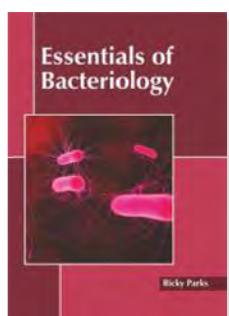


Cell Biology

Billy Malcolm	ISBN 978-1-63239-816-1	\$142.00 US	2017	Book Size 7.75" x 10.5"	242pp. Colored	Hardback
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DNA Engineering

DNA is a molecule which forms the very basics of life. DNA engineering is a constantly evolving field concerned with applying biotechnological techniques to alter the genes in order to achieve any set of desired characteristics. This book traces the progress of this field and highlights some of its key concepts and principles. It elucidates new and innovative techniques along with their applications in a multidisciplinary approach. This book studies, analyses and upholds the pillars of DNA engineering and its utmost significance in modern times. It is meant for students, researchers, experts and professionals who are looking for an elaborate reference text on this field.



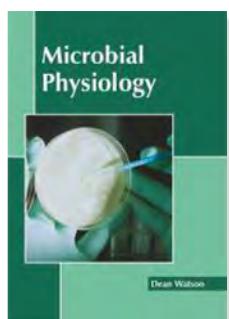
Molecular Biology

Ricky Parks	ISBN 978-1-63239-814-7	\$142.00 US	2017	Book Size 8.5" x 11"	244pp. Colored	Hardback
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Essentials of Bacteriology

An essential part of microbiology is bacteriology. It is concerned with the study of bacteria. It includes the examination of their structure, their classification, identification and characterization. Also included in bacteriology is the study of the relation between bacteria and its surroundings, like in agriculture and medicine, etc. This book elucidates the concepts and innovative models around prospective developments with respect to bacteriology. It includes some of the vital pieces of work being conducted across the world, on various topics related to this field. This book, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this area at various levels.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Molecular Biology

Dean Watson

ISBN
978-1-63239-809-3

\$135.00 US

2017

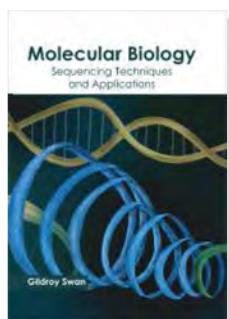
Book Size
8.5"×11"

236pp.
Colored

Hardback

Microbial Physiology

This book unravels the recent studies in the field of microbial physiology. It also provides interesting topics for research which readers can take up. Microbial physiology refers to the biochemical examination of the microbial cell functions. It also includes an in-depth study of microbial metabolism, microbial growth, microbial cell structure, etc. While understanding the long-term perspectives of these topics, the book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. It aims to shed light on some of the unexplored aspects and the recent researches in this area. Scientists and students actively engaged in the field of microbial physiology will find this book full of crucial and unexplored concepts.



Molecular Biology

Gildroy Swan

ISBN
978-1-63239-811-6

\$140.00 US

2017

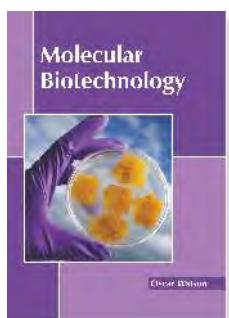
Book Size
8.5"×11"

236pp.
Colored

Hardback

Molecular Biology: Sequencing Techniques and Applications

Molecular biology studies the biological activity of cells that occurs between various forms of biomolecules. Some examples of biomolecules are carbohydrates, lipids, nucleic acids and peptides. This book on molecular biology seeks to enumerate the cellular function of biomolecules and its application to various fields. Most of the topics introduced in this book cover new techniques and applications of molecular biology. The various sub-fields of molecular biology along with technological progress that have future implications are also glanced at. It will provide comprehensive knowledge to the readers. This book would be helpful for students and researchers associated with molecular modeling, genomics and pharmaceuticals. For all those who are interested in molecular biology, this book can prove to be an essential guide.



Molecular Biology

Oscar Watson

ISBN
978-1-63239-812-3

\$142.00 US

2017

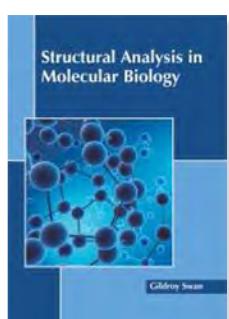
Book Size
8.5"×11"

243pp.
Colored

Hardback

Molecular Biotechnology

Molecular biotechnology is the science and practice of using laboratory methods, in order to examine nucleic acids and proteins. These practices are used in many fields like medicinal science, veterinary medicine, agricultural science and environment. Molecular biotechnology is the amalgamation of many fields like, genetics, cell biology, molecular biology, microbiology, biochemistry, etc. This book presents researches and studies performed by experts across the globe on the various fields related to molecular biotechnology. It picks up individual branches and explains their need and contribution in the context of the growth of this subject. Most of the topics introduced in the text cover new techniques and the applications of molecular biotechnology. It will help new researchers by foregrounding their knowledge in this branch. Students and scientists engaged in this field will find this book helpful as it compiles contributions made by experts from across the globe.



Molecular Biology

Gildroy Swan

ISBN
978-1-63239-813-0

\$140.00 US

2017

Book Size
8.5"×11"

236pp.
Colored

Hardback

Structural Analysis in Molecular Biology

Molecular biology provides the basis for understanding biological functions that occur at a molecular level. It covers a wide range of topics related to molecular and cell biology such as transcriptomics, bioinformatics, biomedicine, etc. This book paves way for a thorough understanding of molecular structures and their functions. Recent research in this field has accelerated with the aid of technological advances that provide accurate data for the analysis of newer and complex structures. Different approaches, evaluations, methodologies and advanced studies on molecular biology have been included in this book. It includes contributions of experts and scientists which will provide innovative insights into this discipline.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Gretchen Kenney

ISBN
978-1-63239-890-1

\$127.00 US

2017

Book Size
7"×10"

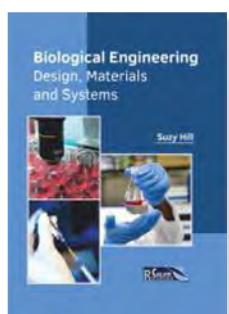
205pp.
Colored

Hardback

Biotechnology

Bioengineering: Tools, Methods and Applications

As bioengineering is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of this field. It also delves into the equipment used in bioengineering. Bioengineering is an inter-disciplinary field, with biology as the primary field and physics, chemistry, mathematics and computer sciences as its secondary contributors. This text attempts to understand the multiple branches that fall under this discipline and how much such concepts have practical applications. With its detailed analyses and data, this book will prove immensely beneficial to professionals and students involved in bioengineering at various levels.



Suzy Hill

ISBN
978-1-63239-858-1

\$142.00 US

2017

Book Size
7.75"×10.5"

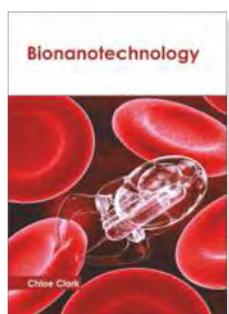
243pp.
Colored

Hardback

Biotechnology

Biological Engineering: Design, Materials and Systems

Biological engineering is a field of study that deals with the application of life sciences principles to fields that are conceptually separate such as engineering and biology. It seeks to create and develop machines, devices and drugs that can solve a host of problems that are prevalent in medicine and other practices with similar concerns. This book on biological engineering discusses subjects that fall broadly under pharmacology, biochemistry, microbiology and molecular biology. The various advancement in biological engineering are glanced at and their applications as well as ramifications are looked at in detail. Some of the diverse topics covered herein address the varied branches that fall under this category. Those in search of information to further their knowledge will be greatly assisted by this book. It will help the readers in keeping pace with the rapid changes in this field.



Chloe Clark

ISBN
978-1-63239-861-1

\$140.00 US

2017

Book Size
8.5"×11"

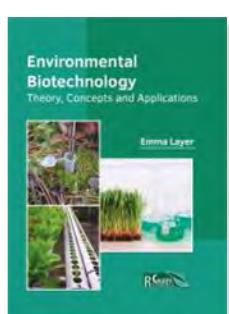
240pp.
Colored

Hardback

Biotechnology

Bionanotechnology

Since its emergence, bionanotechnology has been rapidly expanding. It is an interdisciplinary field, which unifies the principles of biology and nanotechnology. It primarily focuses on developing and applying nano-tools to solve diverse biological problems. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of bionanotechnology. There has been rapid progress in this field and its applications are finding their way across multiple industries. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts.



Emma Layer

ISBN
978-1-63239-862-8

\$142.00 US

2017

Book Size
7.75"×10.5"

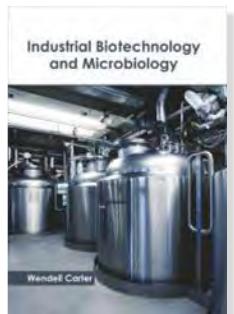
242pp.
Colored

Hardback

Biotechnology

Environmental Biotechnology: Theory, Concepts and Applications

The objective of this book is to give a general view of the different areas of environmental biotechnology and its applications. A field of study that is used for harnessing biological process for industrial purposes is known as environmental biotechnology. This book covers in detail some existent theories and innovative concepts revolving around this field of study. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this text. It is appropriate for students seeking detailed information in this area as well as for experts. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

**Wendell Carter**ISBN
978-1-63239-857-4

\$150.00 US

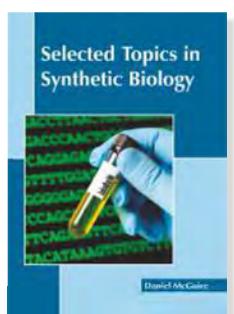
2017

Book Size
8.5"×11"260pp.
Colored

Hardback

Biotechnology**Industrial Biotechnology and Microbiology**

The study of microorganisms for their application in the industrial process is known as industrial biotechnology. Microbiology, the study of cellular and acellular cultures as they are found in nature, is a vital area of study for agriculture related practices. This book on industrial biotechnology and microbiology discusses topics related to food fermentation and food processing and the various techniques related to the culturing of microbiota. This book is a compilation of the latest researches and emerging trends that have been seen in these fields. It covers topics that are relevant for the theory as well as practice of industrial biotechnology and microbiology. This book elucidates new techniques and their applications in a multidisciplinary approach. It presents researches and studies performed by experts across the globe. This book aims to assist those with a good goal of delving into this field. It will serve as a vital source of reference to students and scholars alike.

**Daniel McGuire**ISBN
978-1-63239-859-8

\$140.00 US

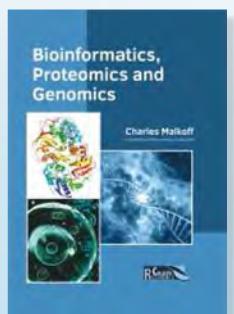
2017

Book Size
8.5"×11"240pp.
Colored

Hardback

Biotechnology**Selected Topics in Synthetic Biology**

This book outlines the processes and applications of synthetic biology in detail. It provides comprehensive insights into this field. Synthetic biology is the amalgamation of biology and engineering. It refers to the study of designing and producing biological systems and modules. It uses the elements of molecular biology, computer engineering, biophysics and genetic engineering, among other subjects. This text is compiled in such a manner that it will provide in-depth knowledge about this field to the readers. The various sub-fields of synthetic biology along with technological process that have future implications are glanced at. Most of the topics introduced in this book cover new techniques and applications of synthetic biology. All those who are interested in this subject area will benefit alike from it. It will serve as a resource guide for students and experts and contribute to the growth of the discipline.

**Charles Malkoff**ISBN
978-1-63239-804-8

\$142.00 US

2017

Book Size
7.75"×10.5"241pp.
Colored

Hardback

Bioinformatics**Bioinformatics, Proteomics and Genomics**

Proteins have been studied for many decades. However, the study of proteins was revolutionized in the late twentieth century. Technological advances in the field of computational modeling has paved way for the observation of protein behavior and the corresponding process of formation and transformation. This book on bioinformatics, proteomics and genomics discusses the recent developments that have taken place in these fields. The various sub-fields of bioinformatics, proteomics and genomics along with technological progress that have future implications are glanced at in this book. It brings forth some of the most innovative concepts and elucidates the unexplored aspects of these fields. This text includes contribution of experts and scientists which will provide innovative insights to readers. This book will be useful for students, experts and professionals in the fields of molecular biology, genetics and proteomics. The extensive content of this book provides the readers with a thorough understanding of the subject.

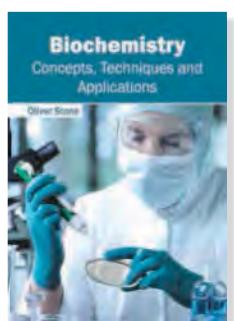
Biochemistry, Genetics, Biotechnology and Molecular Biology



Oliver Stone	ISBN 978-1-63239-691-4	\$155.00 US	2016	Book Size 8.5"x11"	281pp. Colored	Biochemistry Hardback
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Biochemistry: Advanced Researches

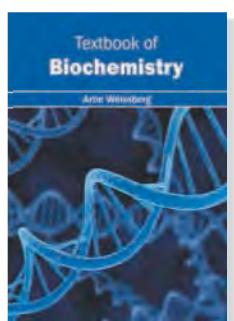
Biochemistry is the branch of chemistry that studies reactions occurring inside living organisms. These reactions are often catalyzed by biological substances referred to as enzymes. Biochemical reactions are complex procedures that require a carefully controlled environment like optimum pH levels, temperature and catalysts. This book covers the significant aspects of biochemistry like biocatalysis, biochemical immunology, biochemical methods, biochemical pharmacology and toxicology, carbohydrate biochemistry, computational biochemistry and biomolecular modeling, enzymology, inorganic biochemistry, etc. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Those in search of information to further their knowledge will be greatly assisted by this book.



Oliver Stone	ISBN 978-1-63239-680-8	\$155.00 US	2016	Book Size 8.5"x11"	291pp. Colored	Biochemistry Hardback
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Biochemistry: Concepts, Techniques and Applications

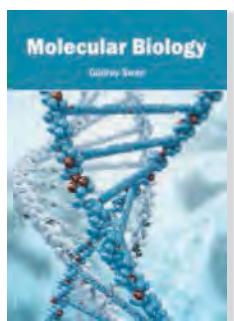
Biochemistry is the combination of two disciplines; biology and chemistry. It studies chemical reactions occurring within the living organisms or related to them. Applied biochemistry, biochemistry of cell metabolism and the endocrine system, bioenergetics, biochemical mechanisms, proteins, carbohydrates, lipids, nucleic acids and other biologically active molecules, protein synthesis, cell membrane transport and signal transduction, industrial applications of biochemistry like food and chemical toxicology and pharmacology are some of the crucial topics discussed herein, in the light of new findings and researches. Different approaches, evaluations, methodologies and advanced studies in the field of biochemistry have been included in this book. It will help the readers in keeping pace with the rapid changes in this field. This book collaborates researches of international experts to provide a truly global outlook on the subject.



Artie Weissberg	ISBN 978-1-63239-705-8	\$155.00 US	2016	Book Size 8.5"x11"	296pp. Colored	Biochemistry Hardback
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Textbook of Biochemistry

Biochemistry is the branch of science which deals with studying the chemical processes taking place in or related to living organisms. It incorporates studies regarding cells, examining components like proteins, lipids, organelles, etc. The scientists working in this field also study the interactions between cells and examine how it takes place, while fighting illness or during growth. This book outlines the processes and applications related to this area. It discusses the fundamentals as well as modern approaches of this field. It presents researches and studies performed by experts across the globe. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts. It will serve as beneficial source of reference for readers.

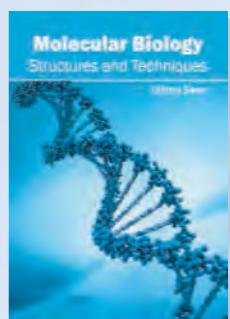


Gildroy Swan	ISBN 978-1-63239-673-0	\$150.00 US	2016	Book Size 8.5"x11"	275pp. Colored	Molecular Biology Hardback
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Molecular Biology

This book traces the progress in the field of molecular biology and highlights some of its key concepts and applications. Molecular biology refers to the study of cells and their attributes, interactions and biosynthesis. It lays special importance on the processes related to the growth, development and molecular monitoring of activities in the cells. Molecular biology has proved to be beneficial in understanding and studying the human body. This book contains some path-breaking studies in this subject. It provides vital topics for research which interested readers can take up. Some of the diverse topics covered in this book address the varied branches that fall under the umbrella of molecular biology. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts.

Biochemistry, Genetics, Biotechnology and Molecular Biology

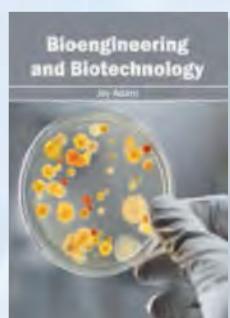


Molecular Biology

Gildroy Swan	ISBN 978-1-63239-668-6	\$155.00 US	2016	Book Size 8.5"x11"	281pp. Colored	Hardback
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Molecular Biology: Structures and Techniques

Molecular biology means the study of cells and their functions. It further explores the concepts of cell formation and their various categories. It deals with the understanding of concepts and usefulness of cells in order to learn the functioning of human body. Molecular biology has enabled scientists to form new drugs and has helped doctors to treat many cell related disorders. Different approaches, evaluations, methodologies and advanced studies in this area have been included in this book. It includes contributions from experts and scientists which will provide innovative insights into the field of molecular biology. For someone with an interest and eye for detail, this book will provide the most significant topics related to this field.

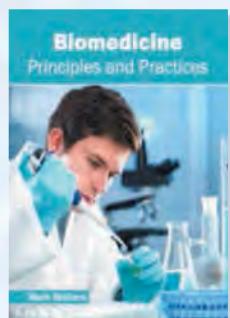


Biotechnology

Joy Adam	ISBN 978-1-63239-749-2	\$150.00 US	2016	Book Size 8.5"x11"	280pp. Colored	Hardback
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Bioengineering and Biotechnology

Bioengineering is mainly concerned with developing cost effective diagnostic and curative technologies for problems related to human health. It combines the expertise of engineering with the rapidly advancing field of biology to provide innovative solutions. On the other hand biotechnology primarily focuses on making improvements in the living organisms by the means of genetic engineering, hybridization, tissue culture technologies, etc. They join hands to provide the best possible alterations in relation to living organisms. This book outlines the processes and applications of these disciplines in detail. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study. This book attempts to understand the multiple branches that fall under these disciplines and how such concepts have practical applications. It will serve as a complete source of knowledge for researchers and students alike.

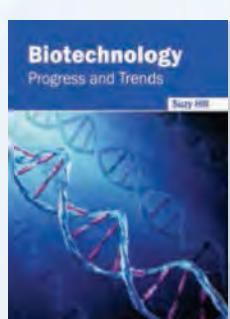


Biotechnology

Mark Walters	ISBN 978-1-63239-747-8	\$150.00 US	2016	Book Size 8.5"x11"	274pp. Colored	Hardback
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Biomedicine: Principles and Practices

Biomedicine is a branch of science which refers to the practice of using biological and natural-science principles to diagnose and treat diseases. It aims to cure the disorders of heart, lungs, brain, nerves, etc. by learning the anatomy and physiology of the body. It combines many branches like molecular biology, nanobiotechnology, genetics, virology, physiology, toxicology, neurosciences, pathology, etc. This book elucidates new techniques and their applications in a multidisciplinary approach. It presents researches and studies performed by experts across the globe. Most of the topics introduced in this book cover new concepts and methods of biomedicine. Scientists and students actively engaged in this field will find this text full of crucial and unexplored concepts.

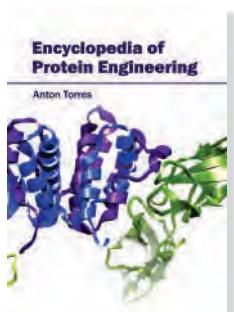


Biotechnology

Suzy Hill	ISBN 978-1-63239-681-5	\$155.00 US	2016	Book Size 8.5"x11"	290pp. Colored	Hardback
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Biotechnology: Progress and Trends

Biotechnology is an umbrella discipline that often overlaps with biomedicine, bioengineering and bio manufacturing. It is used in diverse spheres such as preparing medicines, agriculture, food production and preservation, etc. It has been progressing at a rapid pace. There are several different branches of this discipline such as bioinformatics, blue biotechnology, white biotechnology, green biotechnology and red biotechnology. Some of the diverse topics covered in this book address the varied branches that fall under this category. It is a valuable compilation of topics, ranging from the basic to the most complex advancements and emerging trends in this subject. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of biotechnology.

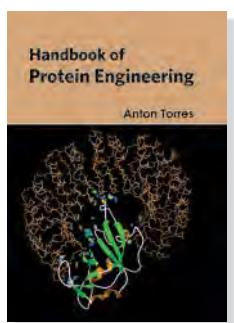


Biochemistry, Genetics, Biotechnology and Molecular Biology

Anton Torres | ISBN 978-1-63239-286-2 | \$150.00 US | 2015 | Book Size 6"x9" | 356pp. Colored | Hardback

Encyclopedia of Protein Engineering

In this book, a wide variety of data is enclosed by presenting a solid base in protein engineering. It provides readers with information crucial to the design and fabrication of proteins. This book provides debates on a range of techniques for protein engineering, featuring researches from experts practicing around the globe. A wide range of topics analyzing important features of techniques and applications in the composition of new proteins are presented. These comprise the use of unnatural amino acids, molecular progression and protein folding to construct helpful proteins with better properties.

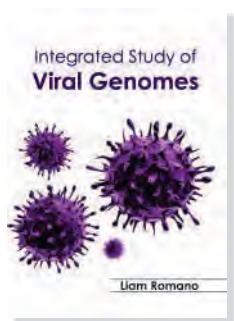


Biochemistry, Genetics, Biotechnology and Molecular Biology

Anton Torres | ISBN 978-1-63239-410-1 | \$90.00 US | 2015 | Book Size 6"x9" | 195pp. Colored | Hardback

Handbook of Protein Engineering

The field of protein engineering has been comprehensively illustrated in this book. The aim of this book is to provide state-of-the-art information regarding the field of protein engineering and elucidate its applications as well as technology. It covers a broad spectrum of significant topics like chromatography methodology, protein-protein and protein-ligand docking, protein engineering of enzymes involved in bio-plastic metabolism, etc. The book will appeal to a wide range of readers including researchers, scientists, and even students who wish to gain knowledge about the principles and practices of protein engineering.

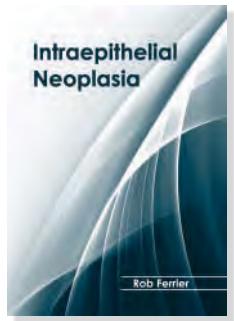


Biochemistry, Genetics, Biotechnology and Molecular Biology

Liam Romano | ISBN 978-1-63239-434-7 | \$140.00 US | 2015 | Book Size 6"x9" | 314pp. Colored | Hardback

Integrated Study of Viral Genomes

This book provides an overview of viral genomes. It is an all-inclusive book on the vast subject of viral genomes. Viruses are small agents which cause infection within the host by multiplying inside the functioning cells of the host. The comprehension of the molecular incidents underlying the infectious procedure has been of particular significance to advance strategies intended to combat viral disorders of medicinal, veterinary and agricultural significance. Few viruses cause horrible diseases, while others are also of interest due to various reasons. The writers of this book present the readers with a viewpoint on the broad range of virus-host systems. This book deals with a wide variety of topics such as genome diversity and development, virus-host interactions, counting technically significant features, regulation of replication and gene expression. This book also covers a huge range of scientific approaches to assess genome deviation or stability. It intends to provide useful data regarding many features related to viral genomes for both students and experts.

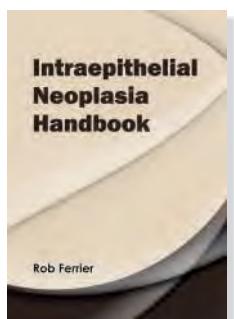


Biochemistry, Genetics, Biotechnology and Molecular Biology

Rob Ferrier | ISBN 978-1-63239-435-4 | \$110.00 US | 2015 | Book Size 6"x9" | 226pp. Colored | Hardback

Intraepithelial Neoplasia

Written with the aim of serving experts to not only diagnose, but also understand the etiopathogenesis of precursor lesions, the book endeavors to identify its molecular and genetic techniques. This is a wide-ranging book devoted to preinvasive lesions of the human body. Chapters in this book consist of a significant quantity of novel information with an efficient catalogue list as well as the most recent WHO categorization of intraepithelial lesion such as intraepithelial neoplasia of the oral cavity, the eye, the breast and the uterus. This book has been modernized according to the most recent technological developments and can be described as brief, educational and practical text at all levels, discussing the important role of the molecular analysis of intraepithelial lesions.

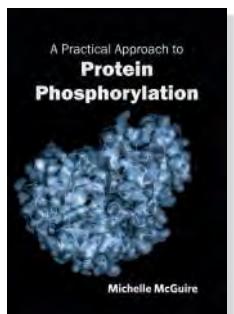


Biochemistry, Genetics, Biotechnology and Molecular Biology

Rob Ferrier	ISBN 978-1-63239-436-1	\$110.00 US	2015	Book Size 6"x9"	252pp. Colored	Hardback
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Intraepithelial Neoplasia Handbook

This is a wide-ranging book devoted to preinvasive lesions of the human body. Written with the aim of serving experts to not only diagnose but also understand the etiopathogenesis of precursor lesions, the book also endeavors to identify its molecular and genetic techniques. Chapters in this book consist of a significant quantity of novel information with an efficient categorization of intraepithelial lesions of the cervix and the vulva. This book has been modernized according to the most recent technological developments and can be described as a brief, educational and practical text at all levels, discussing the important role of the molecular analysis of intraepithelial lesions.

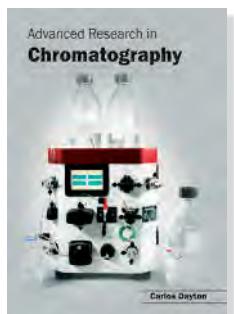


Biochemistry

Michelle McGuire	ISBN 978-1-63239-010-3	\$120.00 US	2015	Book Size 6"x9"	273pp. Colored	Hardback
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A Practical Approach to Protein Phosphorylation

Extensive information regarding protein phosphorylation and human health has been contributed by veteran scientists in this book. The book elucidates the most significant research hot points grouped under two broad sections namely, "AMPK, mTOR, and Akt in cancer & metabolic disorders" and "protein phosphorylation in transcription, pre-mRNA splicing & DNA damage". It connects the basic protein phosphorylation channels with human health and diseases. This book also includes excellent figure illustrations and will be a valuable reference.

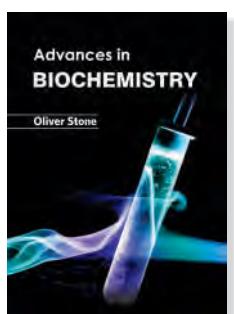


Biochemistry

Carlos Dayton	ISBN 978-1-63239-023-3	\$150.00 US	2015	Book Size 8.5"x11"	223pp. Colored	Hardback
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Advanced Research in Chromatography

The authors of this book have contributed some innovative concepts revolving around chromatography and their different applications in biotechnology, ecology, environment, food and toxicology. This book is enriched with practical applications of chromatography, concepts about performing chromatography and other related technical issues. It is a complete work to understand the advanced aspects of this discipline.



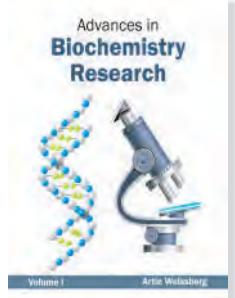
Biochemistry

Oliver Stone	ISBN 978-1-63239-037-0	\$110.00 US	2015	Book Size 6"x9"	240pp. Colored	Hardback
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Advances in Biochemistry

Over the years, biochemistry has become significant in classifying living processes so much so that many scientists in the field of life sciences are involved in biochemical research. This book presents an analysis of the research area of proteins, enzymes, cellular mechanisms and chemical compounds that are used in relevant methods. It includes the basic issues and some of the current advancements in biochemistry. This book caters to students, researchers, biologists, chemists, chemical engineers and professionals who are keen to know more about biochemistry, molecular biology and other related fields. The chapters within the book have been contributed by renowned international scientists with expertise in protein biochemistry, enzymology, molecular biology and genetics; many of whom are active in biochemical and biomedical research. It will provide information for scientists about the complexities of some biochemical procedures; and will stimulate both professionals and students to devote a part of their future research in understanding related mechanisms and methods of biochemistry.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Artie Weissberg

ISBN
978-1-63239-038-7

\$150.00 US

2015

Book Size
8.5"x11"

221pp.
Colored

Hardback

Biochemistry

Advances in Biochemistry Research: Volume I

The book talks about the latest developments and researches in the field of biochemistry. It attempts to bring to its readers a platform where they can understand, think and broaden their bank of knowledge about biochemistry. A number of texts, researches and techniques have been discussed in this book. It also highlights the importance of biochemistry in today's world and how it is going to affect or assist mankind in innumerable ways.



Artie Weissberg

ISBN
978-1-63239-039-4

\$150.00 US

2015

Book Size
8.5"x11"

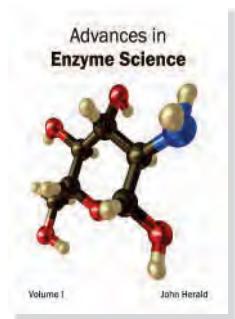
223pp.
Colored

Hardback

Biochemistry

Advances in Biochemistry Research: Volume II

The book talks about the latest developments and researches in the field of biochemistry. It attempts to bring to its readers a platform where they can understand, think and broaden their bank of knowledge about biochemistry. A number of texts, researches and techniques have been discussed in this book. It also highlights the importance of biochemistry in today's world and how it is going to affect or assist mankind in innumerable ways.



John Herald

ISBN
978-1-63239-040-0

\$150.00 US

2015

Book Size
8.5"x11"

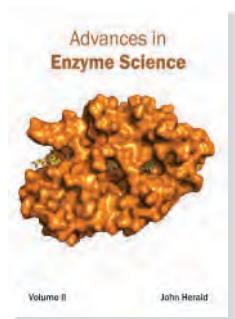
219pp.
Colored

Hardback

Biochemistry

Advances in Enzyme Science: Volume I

This book is an in-depth study of enzymes. A world so diverse and dynamic that it continues to confound yet impress the great minds studying it. This book aims to study the vast applications of enzymes in various industries, its extent and contribution to the society. By studying the various effects of different trans-esterification variables, namely, molarity of alcohol, reaction time, temperature, agitation, addition of water, and enzyme amount on molar conversion, many industries are going to witness remarkable changes. This book encapsulates such data and researches which will benefit experts and students alike.



John Herald

ISBN
978-1-63239-041-7

\$150.00 US

2015

Book Size
8.5"x11"

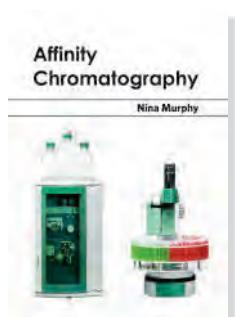
210pp.
Colored

Hardback

Biochemistry

Advances in Enzyme Science: Volume II

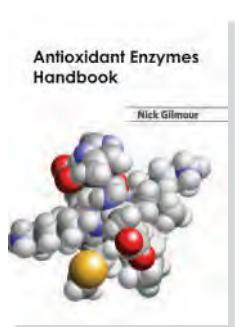
This book is an in-depth study of enzymes. A world so diverse and dynamic that it continues to confound yet impress the great minds studying it. This book aims to study the vast applications of enzymes in various industries, its extent and contribution to the society. By studying the various effects of different trans-esterification variables, namely, molarity of alcohol, reaction time, temperature, agitation, addition of water, and enzyme amount on molar conversion, many industries are going to witness remarkable changes. This book encapsulates such data and researches which will benefit experts and students alike.



Nina Murphy	ISBN 978-1-63239-055-4	\$150.00 US	2015	Book Size 6"x9"	360pp. Colored	Biochemistry	Hardback
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Affinity Chromatography

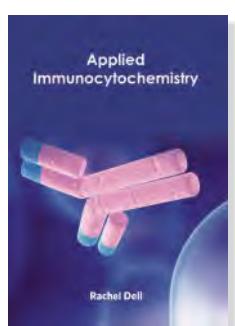
The book offers a broad perspective, encompassing lucid descriptions of the process of affinity chromatography. Affinity chromatography covers a plethora of separation approaches that depend primarily on the use of biospecific interactions on the ligand for reversible adsorption of biomolecules and is one of the leading breakthroughs in the domain of bio-separation techniques. In this book, experts have attempted to present simplified fundamentals of this field, along with some remarkable applications of this diverse technique. There has been special focus on keeping the content concise and lucid. This work will garner significant attention along with delivering benefits and valuable data to the readers.



Nick Gilmour	ISBN 978-1-63239-072-1	\$160.00 US	2015	Book Size 6"x9"	412pp. Colored	Biochemistry	Hardback
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Antioxidant Enzymes Handbook

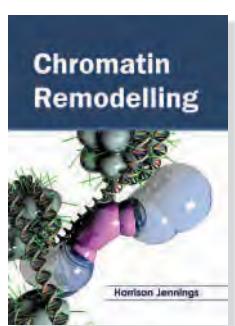
This book provides an elucidative account on the functioning and mechanism of antioxidant enzymes. Free radicals are continually generated in living cells and discarded by antioxidant defenses. Antioxidant enzymes are the primary defense against free radicals in animal and plant cells. Uncontrolled generation of reactive oxygen species (ROS) is responsible for causing several human diseases, including diabetes and cancer, because of disturbance in cellular and molecular processes including cell growth, differentiation and proliferation. When cells are introduced to oxidative stress, a defense system supports the expression and regulation of number of antioxidant enzymes as a defense mechanism to secure them from the damage inflicted by free radicals. On the basis of this information, this book has been compiled to overview the significance of antioxidant enzymes in human and plant cells against toxic free radicals, their relationship with various pathophysiological processes and their probable therapeutic applications.



Rachel Dell	ISBN 978-1-63239-076-9	\$140.00 US	2015	Book Size 6"x9"	335pp. Colored	Biochemistry	Hardback
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Applied Immunocytochemistry

This book is a concise and sophisticated introduction to applied immunocytochemistry. Traditionally, immunocytochemistry is described as a process to investigate antigens in cellular contexts through antibodies. But over time, various attributes of the process have emerged from a vast spectrum of experimental conditions. There are various methods to develop a given sample, various kinds of antibodies for applications, multiple techniques for imaging and various procedures of analyzing the information. In this book, multiple methods for carrying out every individual step of immunocytochemistry in diverse cellular contexts have been illustrated. This book provides practical and background data on various levels of immunocytochemistry and the utilization of this technology and its manifestations in relevant fields.

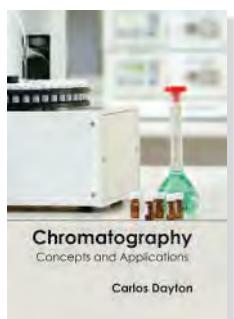


Harrison Jennings	ISBN 978-1-63239-111-7	\$110.00 US	2015	Book Size 6"x9"	232pp. Colored	Biochemistry	Hardback
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Chromatin Remodelling

The book provides an introduction and comprehensive information regarding chromatin remodelling. Chromatin remodelling is used to describe the dynamic modification of chromatin architecture governed by histone-modifying enzymes, non-histone DNA-binding proteins, chromatin remodelling complexes and noncoding RNAs. Various diseases and disorders such as cancer, autism etc. have been related to the breakdown of these control mechanisms by genetic, environmental or microbial factors. The mechanisms through which these factors work are evolving as a new and interesting genre of research and would help in discovering new ways of treatments of these diseases. This book covers recent developments in the domain of biology dealing with gene regulation, chromatin structure, DNA recovery and human diseases.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Carlos Dayton

ISBN
978-1-63239-112-4

\$110.00 US

2015

Book Size
6"x9"

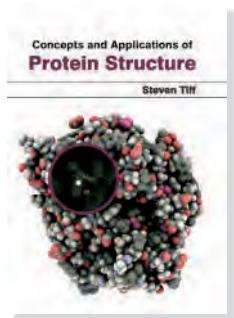
236pp.
Colored

Hardback

Biochemistry

Chromatography: Concepts and Applications

The term chromatography was introduced in 1906 by a Russian botanist Mikhail Tswett. This technique is an effective separation device that is used in all branches of science. It is usually the only means of separating elements from complicated mixtures. The first systematic use of chromatography was explained by James and Martin in the year 1952, for the use of gas chromatography in the analysis of fatty acid mixtures. Vast areas of chromatographic procedures make use of differences in size, charge and other properties. There are several types of chromatography that have been introduced in the book. Some of them are column chromatography, high performance liquid chromatography (HPLC), gas chromatography, size exclusion chromatography, ion exchange chromatography etc. This book includes detailed descriptions about the applications of chromatography by different research findings. Every issue discussed in this book has lists of references tagged at the bottom to provide students and researchers with opening pointers for independent chromatography investigations.



Steven Tiff

ISBN
978-1-63239-122-3

\$160.00 US

2015

Book Size
6"x9"

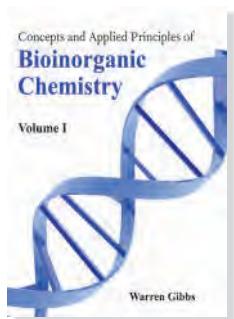
411pp.
Colored

Hardback

Biochemistry

Concepts and Applications of Protein Structure

This book compiles the latest studies and advancements in understanding protein structure. Due to several advancements in the field of science and technology, experts today are able to explain various protein structures thoroughly. This book is a collection of several aspects and researches related to protein structures. Several experts have given their contribution in the compilation of data enclosed in this book. This book is a useful reference of knowledge for both students and experts dealing with protein structure.



Warren Gibbs

ISBN
978-1-63239-123-0

\$150.00 US

2015

Book Size
8.5"x11"

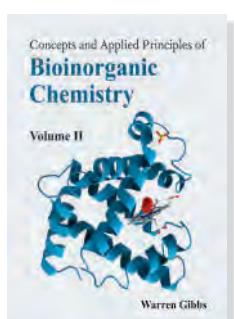
219pp.
Colored

Hardback

Biochemistry

Concepts and Applied Principles of Bioinorganic Chemistry: Volume I

Bioinorganic chemistry is an ever evolving field of science. This discipline serves as the binding factor of biochemistry and inorganic chemistry, thus, the research in this field is constantly rising. This book is an attempt to understand the various fields and concepts that come under the umbrella of bioinorganic chemistry and how research in this field is beneficial to us in our day to day lives as well as in the industrial sector. The various researches and factors that are constantly contributing towards developing technologies and the advancement of this field are examined in detail.



Warren Gibbs

ISBN
978-1-63239-124-7

\$150.00 US

2015

Book Size
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218pp.
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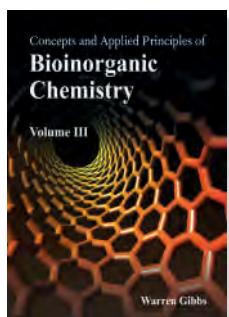
Hardback

Biochemistry

Concepts and Applied Principles of Bioinorganic Chemistry: Volume II

Bioinorganic chemistry is an ever evolving field of science. This discipline serves as the binding factor of biochemistry and inorganic chemistry, thus, the research in this field is constantly rising. This book is an attempt to understand the various fields and concepts that come under the umbrella of bioinorganic chemistry and how research in this field is beneficial to us in our day to day lives as well as in the industrial sector. The various researches and factors that are constantly contributing towards developing technologies and the advancement of this field are examined in detail.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Warren Gibbs

ISBN
978-1-63239-125-4

\$150.00 US

2015

Book Size
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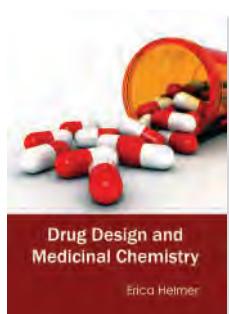
200pp.
Colored

Hardback

Biochemistry

Concepts and Applied Principles of Bioinorganic Chemistry: Volume III

Bioinorganic chemistry is an ever evolving field of science. This discipline serves as the binding factor of biochemistry and inorganic chemistry, thus, the research in this field is constantly rising. This book is an attempt to understand the various fields and concepts that come under the umbrella of bioinorganic chemistry and how research in this field is beneficial to us in our day to day lives as well as in the industrial sector. The various researches and factors that are constantly contributing towards developing technologies and the advancement of this field are examined in detail.



Erica Helmer

ISBN
978-1-63239-154-4

\$160.00 US

2015

Book Size
6"x9"

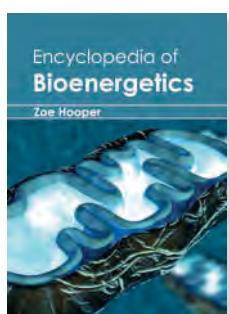
419pp.
Colored

Hardback

Biochemistry

Drug Design and Medicinal Chemistry

This book covers the different aspects of drug design and medicinal chemistry. Recently, medicinal chemistry has become accountable for clarifying interactions of chemical molecules procedures, such that many experts in life sciences, from agronomy to medication, are occupied in medicinal study. This book comprises of researches centering on molecular features of drug metabolism, pro-drug production, in silico and chemical compounds used in applicable methods. It even deals with fundamental issues and developments in medicinal chemistry and drug design. Particular significance is given to both conjectural and investigational features of contemporary drug design. This book intends to provide some useful knowledge to students and even experts working on the above stated topic. This book is a compilation of data provided by some of the renowned experts working in this field of science for years.



Zoe Hooper

ISBN
978-1-63239-215-2

\$120.00 US

2015

Book Size
6"x9"

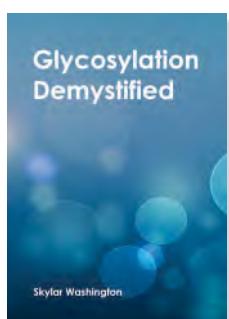
284pp.
Colored

Hardback

Biochemistry

Encyclopedia of Bioenergetics

In order to function properly and to avoid death, a cell's life relies upon energy deposits, conversion, utilization and exchange. Over 200 years of study tells us how cells convert biological fuels into usable energy. This process is broadly known as bioenergetics which has generated traditions in describing origins of life, metabolism, ecological adaptation, homeostasis, aging and various other life processes. This book discusses some of these traditions via chapters contributed by international experts. Both beginners and professionals will find this book benefiting in linking scientific revolutions in the fields of organism biology, membrane physiology and molecular biology to enhance the subject of bioenergetics towards solving contemporary and future difficulties in metabolic diseases, life transitions and longevity, and performance optimization.



Skylar Washington

ISBN
978-1-63239-365-4

\$160.00 US

2015

Book Size
6"x9"

451pp.
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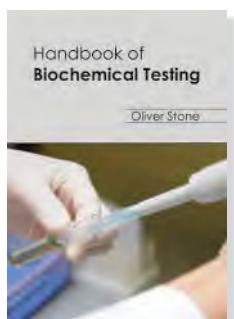
Hardback

Biochemistry

Glycosylation Demystified

Glycosylation is generally described as a form of co-translational and post-translational modification. This book emphasizes on the concepts of glycobiology, and is a collective effort of a group of recognized researchers. It addresses some of the crucial topics in this domain, presenting a broad range of theoretical and practical topics in the subject of glycobiology. This book will be of great significance for scholars and researchers involved in drug glycoengineering and biomedical research.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Oliver Stone

ISBN
978-1-63239-370-8

\$110.00 US

2015

Book Size
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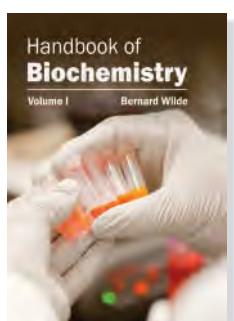
228pp.
Colored

Hardback

Biochemistry

Handbook of Biochemical Testing

Biochemical testing requires the determination of various parameters and the recognition of the main biological chemical compounds, by the usage of biochemical and molecular devices. The objective of this book is to present various processes and procedures to confine and classify unknown bacteria through the molecular, biochemical differences. This can be done depending upon the characteristic gene sequences. Furthermore, molecular tools involving DNA sequencing and biochemical tools based in enzymatic reactions and proteins reactivity will aid to recognize genetically modified organisms in agriculture, as well as for food preservation and healthcare, and improvement through natural products utilization, vaccination and prophylactic treatments, and drugs testing in medical trials.



Bernard Wilde

ISBN
978-1-63239-371-5

\$150.00 US

2015

Book Size
8.5"x11"

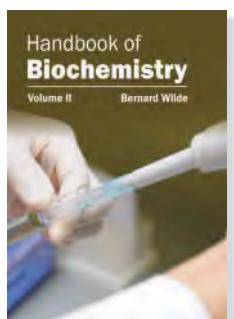
214pp.
Colored

Hardback

Biochemistry

Handbook of Biochemistry: Volume I

This book is a sincere attempt to delve into the vast subject of biochemistry and presents a complete picture of the same. It details out those different branches where biochemistry has and continues to make giant strides. It also focuses on the industrial uses of the subject. Moreover, lucid flow of topics, easy to understand language, and diagrammatic representation through figures and charts makes it a comprehensive book.



Bernard Wilde

ISBN
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\$150.00 US

2015

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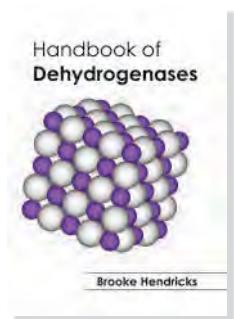
222pp.
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Hardback

Biochemistry

Handbook of Biochemistry: Volume II

This book is a sincere attempt to delve into the vast subject of biochemistry and presents a complete picture of the same. It details out those different branches where biochemistry has and continues to make giant strides. It also focuses on the industrial uses of the subject. Moreover, lucid flow of topics, easy to understand language, and diagrammatic representation through figures and charts makes it a comprehensive book.



Brooke Hendricks

ISBN
978-1-63239-383-8

\$150.00 US

2015

Book Size
6"x9"

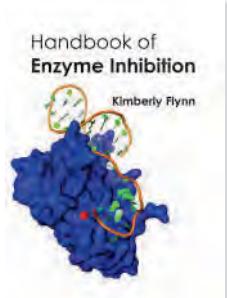
366pp.
Colored

Hardback

Biochemistry

Handbook of Dehydrogenases

This book elaborates on the theme of dehydrogenases. It considers dehydrogenases as enzymes with distinct functions in the cells with the help of various substrates, like aldehyde dehydrogenases, pyruvate dehydrogenase complex, succinate dehydrogenase, hydroxysteroid dehydrogenases, glucose-6-phosphate dehydrogenase, and glutamate dehydrogenase. They are evaluated from various viewpoints like physiological functions, biochemistry, and role in few diseases as well as in the development of tumors. The book encompasses several topics organized under sections such as dehydrogenases and cancer; dehydrogenases and some other diseases; and its physiological role. It will serve as an important source of reference to those interested in the field.



Kimberly Flynn

ISBN
978-1-63239-392-0

\$140.00 US

2015

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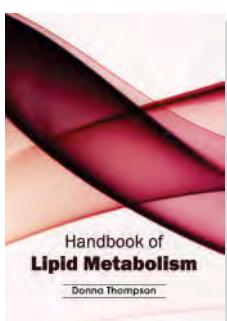
326pp.
Colored

Hardback

Biochemistry

Handbook of Enzyme Inhibition

Enzyme inhibition is basically described as a reduction in enzyme-related processes. This book deals with practical techniques of enzymes used in drug experimentation. It will serve the function of both; providing applied drug assessment methods in research projects as well as helping reasonably qualified enzyme experts who wish to expand their researches further. The content has been set in a manner where fundamental aspects of enzyme obstructions of cytochromes have been followed by latest features of functional medicine treatment; reliability evaluation; and new enzyme applications from mechanistic point of view.



Donna Thompson

ISBN
978-1-63239-401-9

\$120.00 US

2015

Book Size
6"x9"

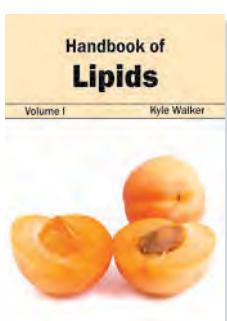
290pp.
Colored

Hardback

Biochemistry

Handbook of Lipid Metabolism

Lipids are essential components of our diet because of their important contribution in energy, representing 9 kcal/g (or 37.7 kJ/g), and by some components relevant to the metabolism, such as essential fatty acids, fat soluble vitamins and sterols (cholesterol and phytosterols). Lipids (fats and oils) are an extensive range of organic molecules that activate several functions in organisms. Besides this, lipids have vital roles in human growth and development, along with prevention and treatment of various diseases. This book emphasizes on the importance of these molecules in the body and examines lipid metabolism in health and disease and also in plants.



Kyle Walker

ISBN
978-1-63239-402-6

\$150.00 US

2015

Book Size
8.5"x11"

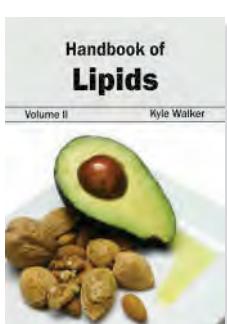
213pp.
Colored

Hardback

Biochemistry

Handbook of Lipids: Volume I

This book on lipids is a compilation of topics that will introduce the readers to a thorough study of lipids, covering the characteristics of lipids, their occurrence in natural and artificial state among others. Lipids are one of the most widely used compounds in the daily life of humans. They are also utilized in some of the most complex chemical experiments, which can for instance, lead to advancement in the biological field of dietary supplementation. It is the aim of this book to provide incredible insights about lipids.



Kyle Walker

ISBN
978-1-63239-403-3

\$150.00 US

2015

Book Size
8.5"x11"

213pp.
Colored

Hardback

Biochemistry

Handbook of Lipids: Volume II

This book on lipids is a compilation of topics that will introduce the readers to a thorough study of lipids, covering the characteristics of lipids, their occurrence in natural and artificial state among others. Lipids are one of the most widely used compounds in the daily life of humans. They are also utilized in some of the most complex chemical experiments, which can for instance, lead to advancement in the biological field of dietary supplementation. It is the aim of this book to provide incredible insights about lipids.

Biochemistry

Handbook of Milk Proteins

Caroline Gardner



Caroline Gardner

ISBN

978-1-63239-404-0

\$150.00 US

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Book Size
6"x9"

352pp.
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Hardback

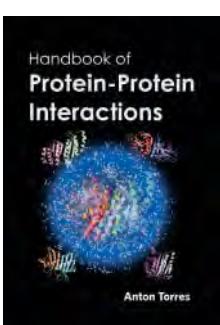
Handbook of Milk Proteins

A detailed account based on milk proteins has been highlighted in this profound book. It provides comprehensive information on a wide range of topics related to milk proteins. The content provided within will prove to be valuable to those interested in dairy foods, milk chemistry, human health, neonatal growth, lactation and mammary gland biology, milk proteins production and other related topics. This book delivers an insight into a range of topics related to milk proteins, including bioactivities of milk proteins and the peptides generated from those proteins, new functions assigned to some milk proteins, impact of processing of milk on milk proteins, allergies associated with consumption of milk, genetic variation of milk proteins, application of genomic technologies for exploring expression of proteins during milk synthesis and production of milk and milk proteins as affected by environmental factors.

Biochemistry

Handbook of Protein-Protein Interactions

Anton Torres



Anton Torres

ISBN

978-1-63239-411-8

\$110.00 US

2015

Book Size
6"x9"

200pp.
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Hardback

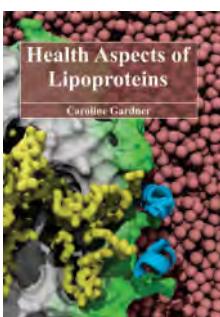
Handbook of Protein-Protein Interactions

This book provides an in-depth understanding of proteins and their interactions with each other. Proteins are vital in almost all biological procedures. The functions of proteins are synchronized through complex regulatory networks of transient protein-protein interactions (PPIs). To study PPIs, a broad range of methods have been developed over the past few decades. Several *in vitro* and *in vivo* attempts have been implemented to discover the mechanism of these pervasive interactions. Despite noteworthy developments in these investigational approaches, many issues exist such as false-positives/false-negatives, difficulty in obtaining crystal structures of proteins, etc. In order to overcome these challenges, various technical methods have been created, that are becoming more broadly used to examine PPIs. This book discusses various experimental approaches used to observe these interactions. It also looks at other important issues related to PPIs. The objective of this book is to bring together several researches accomplished by experts around the globe.

Biochemistry

Health Aspects of Lipoproteins

Caroline Gardner



Caroline Gardner

ISBN

978-1-63239-418-7

\$150.00 US

2015

Book Size
6"x9"

395pp.
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Hardback

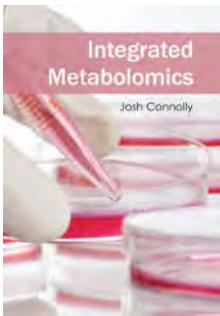
Health Aspects of Lipoproteins

Searching for the word "lipoprotein" in the databases of Medline or PubMed, one gets more than 100, 000 results, this shows the prevailing interest in the topic. This book will be valuable to new investigators in the field to get familiar with the general topic of lipoprotein research and will guide scientists interested in this domain. The sections cover topics like important issues of lipoprotein structure, clinical chemical methods, characterization of dys- and hyperlipoproteinemias and endoscopic treatments on lipoprotein.

Biochemistry

Integrated Metabolomics

Josh Connolly



Josh Connolly

ISBN

978-1-63239-430-9

\$150.00 US

2015

Book Size
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379pp.
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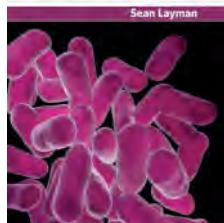
Hardback

Integrated Metabolomics

This book is a well-structured resource for a comprehensive understanding of metabolomics. It is a speedily rising field in life sciences, which plans to recognize and enumerate metabolites in a natural system. Methodical chemistry is combined with complicated informatics and information tools to establish and comprehend metabolic modification upon ecological perturbations. Jointly with added omics study such as genomics and proteomics, metabolomics plays a significant part in practical genomics. This book will offer the reader complete modern knowledge and techniques, particularly in the data examination approaches. It even deals with functions of metabolomics in human physical condition research, protection assessments and plant research.

Biochemistry

Integrated Researches in Lactic Acid Bacteria



Sean Layman

ISBN
978-1-63239-432-3

\$140.00 US

2015

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348pp.
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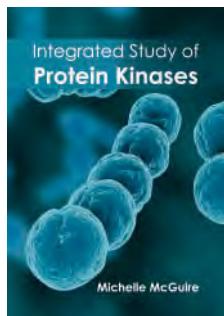
Hardback

Integrated Researches in Lactic Acid Bacteria

This book collates the researches on Lactic Acid Bacteria (LAB). Continuing scientific research in several parts of the globe on the proteomics, genomics and genetic engineering of lactic acid bacteria is enhancing our knowledge of their physiology, pushing further the boundaries for their potential applications. This book represents a collection of the excellent scientific research activities regarding the future applications of LAB. The book has been organized under four sections: Dairy Food Products, Meat Products, Vegetable & Cereal Products, and Health Applications Purposes. It is intended for a great spectrum of readers including researchers, students, corporate R&D and academicians interested in this subject.

Biochemistry

Integrated Study of Protein Kinases



Michelle McGuire

ISBN
978-1-63239-433-0

\$110.00 US

2015

Book Size
6"x9"

260pp.
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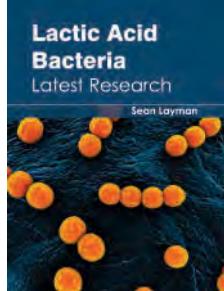
Hardback

Integrated Study of Protein Kinases

This book provides an in-depth knowledge of protein kinases. The aim of this book is to educate readers regarding protein kinases. As regulators of protein function, protein kinases are concerned with the control of cellular functions through complicated signaling pathways, enabling fine tuning of physiological functions. This book is an integrated effort, with contributions from experts in modern science from across the globe. Existing literature is reviewed in this book, and occasionally, new data on the function of protein kinases in different systems is also provided. The implications of these findings in the light of activated protein kinases in genes and biological role, and the role of kinases and phosphatases in host-pathogen interactions are discussed.

Biochemistry

Lactic Acid Bacteria
Latest Research



Sean Layman

ISBN
978-1-63239-442-2

\$140.00 US

2015

Book Size
6"x9"

338pp.
Colored

Hardback

Lactic Acid Bacteria: Latest Research

This book is a compilation of latest research on Lactic Acid Bacteria (LAB). The ongoing scientific research in several parts of the globe on the proteomics, genomics and genetic engineering of lactic acid bacteria is enhancing our knowledge of their physiology, pushing further the boundaries for their potential applications. This book represents a collection of the excellent scientific research activities regarding the future applications of LAB. It is organized under three sections namely, Livestock Feed, Fish & Seafood Products, and New Fields of Application. It is intended for a great spectrum of readers including researchers, students, corporate R&D and academicians interested in this subject.

Biochemistry

Lipid Metabolism



Donna Thompson

ISBN
978-1-63239-448-4

\$90.00 US

2015

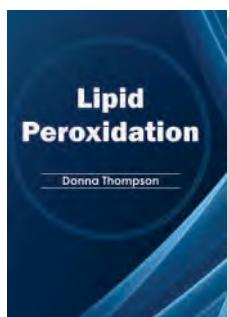
Book Size
6"x9"

194pp.
Colored

Hardback

Lipid Metabolism

Lipids (fats and oils) are an extensive range of organic molecules that activate several functions in organisms. Lipids are essential components of our diet, focusing on their important contribution in energy, representing 9 kcal/g (or 37.7 kJ/g), and by some components relevant to the metabolism, such as essential fatty acids, fat soluble vitamins and sterols (cholesterol and phytosterols). Besides this, lipids have vital roles in human growth and development, along with promoting, preventing and/or participating in the pathogenesis or eventually in the treatment of various diseases. This book demonstrates a comprehensive analysis of the structure and metabolism of lipids.



Donna Thompson

ISBN
978-1-63239-449-1

\$120.00 US

2015

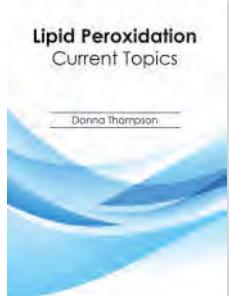
Book Size
6"x9"270pp.
Colored

Hardback

Biochemistry

Lipid Peroxidation

Lipid peroxidation has been an area of interest for scientists across the globe. This book focuses on current advances made in lipid peroxidation. The data compiled in this book has been contributed by researchers with extensive experience in various fields of study. We hope that the matter provided here is comprehensible to a wide audience, not only experts but also students interested in the above stated topics. This book includes topics related to the chemical mechanisms of lipid peroxidation and their biological implications. It also includes an analysis of the processes of lipid peroxidation. Furthermore, the book elucidates lipid peroxidation in vegetables, oils, plants and meats.



Donna Thompson

ISBN
978-1-63239-450-7

\$120.00 US

2015

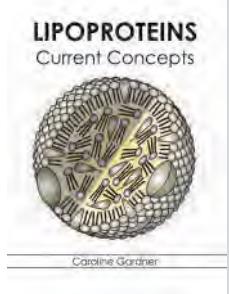
Book Size
6"x9"290pp.
Colored

Hardback

Biochemistry

Lipid Peroxidation: Current Topics

Lipid peroxidation is essentially the oxidative degradation of lipids. This book focuses on current advances made in lipid peroxidation. The data compiled in this book has been contributed by researchers with extensive experience in various fields of study. We hope that the matter provided here is comprehensible to a wide audience, not only experts but also students interested in the above stated topics. This book presents modern professional views on the subject of lipid peroxidation. It discusses various topics related to lipid peroxidation in health and diseases.



Caroline Gardner

ISBN
978-1-63239-451-4

\$150.00 US

2015

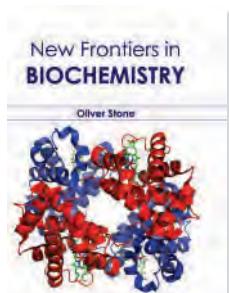
Book Size
6"x9"393pp.
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Hardback

Biochemistry

Lipoproteins: Current Concepts

This book elucidates the current concepts evolving in the area of lipoproteins. Searching for the word "lipoprotein" in the databases of Medline or PubMed, one gets more than 100, 000 results which show the prevailing interest in the topic. This book will be valuable to new investigators in the field to get familiar with the general topic of lipoprotein research and will guide scientists interested in this domain. The sections highlight the important issue of lipid oxidation, role of lipoproteins in the development of atherosclerotic diseases, involvement of lipids and lipoproteins in the development of cancer.



Oliver Stone

ISBN
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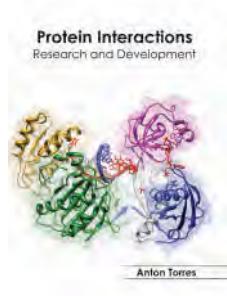
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Biochemistry

New Frontiers in Biochemistry

Over the years, biochemistry has become significant in classifying living processes, so much so that many scientists in the field of life sciences are involved in biochemical research. This book presents an analysis of the research area of proteins, enzymes, cellular mechanisms and chemical compounds that are used in appropriate methods. It includes the basic issues and some of the current advancements in biochemistry. Emphasis is given on both theoretical and experimental facets of modern biochemistry. This book caters to students, researchers, biologists, chemists, chemical engineers and professionals who are keen to know more about biochemistry, molecular biology and other related fields. The chapters within the book have been contributed by renowned international scientists with expertise in protein biochemistry, enzymology, molecular biology and genetics; many of whom are active in biochemical and biomedical research. It will provide information for scientists about the complexities of some biochemical procedures; and will stimulate both professionals and students to devote a part of their future research in understanding related mechanisms and methods of biochemistry.



Anton Torres

ISBN
978-1-63239-520-7

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2015

Book Size
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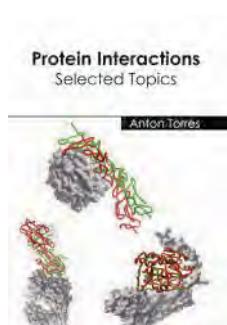
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Biochemistry

Protein Interactions: Research and Development

This book, written by renowned experts, provides advanced researches and concepts in the field of protein interactions. The book presents the interaction between proteins and other biomolecules, which is crucial to all features of biological procedures such as cell growth and differentiation. Hence, examination and modulation of protein interactions are of vital importance, as it not only discloses the mechanism governing cellular movement, but also leads to possible agents for the treatment of a broad range of disorders. The purpose of this book is to emphasize some of the most recent advances in the study of protein interactions, along with modulation of protein interactions, improvements in systematic methods, etc. It provides various examples of protein interaction as the book demonstrates the significance and the opportunities for further exploration of protein interactions.



Anton Torres

ISBN
978-1-63239-521-4

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2015

Book Size
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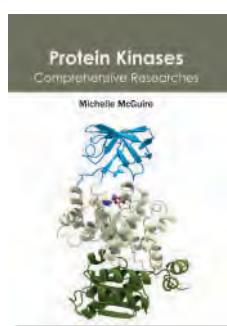
226pp.
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Hardback

Biochemistry

Protein Interactions: Selected Topics

Protein interactions are being studied by researchers across the globe. This book presents the interaction between proteins and other biomolecules, which is crucial to all features of biological procedures such as cell growth and differentiation. Hence, examination and modulation of protein interactions are of vital importance, as it not only discloses the mechanism governing cellular movement, but also leads to possible agents for the treatment of a broad range of disorders. The purpose of this book is to emphasize on some of the most recent advances in the study of protein interactions, along with modulation of protein interactions, improvements in systematic methods, etc. It presents diverse approaches for the study of vital protein interactions. This book demonstrates the significance and the opportunities for further exploration of protein interactions.



Michelle McGuire

ISBN
978-1-63239-522-1

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Book Size
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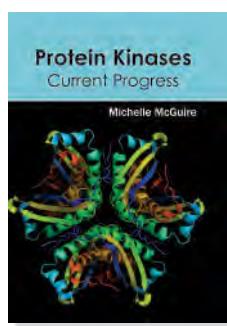
248pp.
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Hardback

Biochemistry

Protein Kinases: Comprehensive Researches

This book of advanced researches aims to serve as a resource guide in the field of protein kinases. The aim of this book is to educate readers on protein kinases. As regulators of protein function, protein kinases are concerned with the control of cellular functions through complicated signaling pathways, enabling fine tuning of physiological functions. This book is an integrated effort, with contributions from experts in modern science from across the globe. Existing literature is reviewed in this book, and occasionally, new data on the function of protein kinases in different systems is also provided. The book discusses broad topics related to the role of c-Src tyrosine kinase in bone metabolism, protein kinases and pancreatic islet function, kinases in spinal plasticity etc.



Michelle McGuire

ISBN
978-1-63239-523-8

\$150.00 US

2015

Book Size
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386pp.
Colored

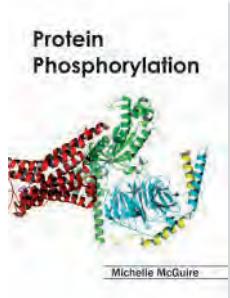
Hardback

Biochemistry

Protein Kinases: Current Progress

This extensive book provides information regarding the current progress in protein kinases. Proteins are the hardest working part of a cell. As controllers of protein function, protein kinases are concerned with the regulation of cellular activities through complex signaling corridors, permitting fine tuning of physiological tasks. This book is a contributive effort, with inputs from experts in their respective spheres, showcasing the spirit of collaborative efforts across fields and boundaries which exist in contemporary science. In this book, light has been shed on existing works and on recent information on the purpose of protein kinases in different systems. Also discussed are the consequences of these discoveries pertaining to disease, treatment, and medicinal development.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Michelle McGuire

ISBN
978-1-63239-524-5

\$110.00 US

2015

Book Size
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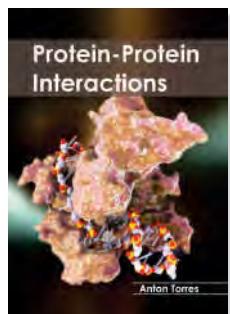
215pp.
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Hardback

Biochemistry

Protein Phosphorylation

This book compiles important information regarding protein phosphorylation and human health contributed by veteran scientists. The book elucidates the most significant research topics grouped under three sections: tyrosine kinases in receptor signaling and human diseases; protein kinases and phosphates in cell cycle regulation; and histidine kinases in two-component systems. It connects the basic protein phosphorylation channels with human health and diseases. This book also comprises of excellent figure illustrations and will be a valuable read for a broad spectrum of readers.



Anton Torres

ISBN
978-1-63239-525-2

\$110.00 US

2015

Book Size
6"x9"

296pp.
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Hardback

Biochemistry

Protein-Protein Interactions

Proteins have been the focus of researches for decades. Proteins are vital in almost all biological procedures. The functions of proteins are synchronized through complex regulatory networks of transient protein-protein interactions (PPIs). To study PPIs, a broad range of methods have been developed over the past few decades. Several *in vitro* and *in vivo* attempts have been implemented to discover the mechanism of these pervasive interactions. Despite noteworthy developments in these investigational approaches, many issues exist such as false-positives/false-negatives, difficulty in obtaining crystal structures of proteins, etc. In order to overcome these challenges, various technical methods have been created, that are becoming more broadly used to examine PPIs. This book primarily demonstrates various computational approaches utilized to study these interactions. The objective of this book is to bring together several researches accomplished by experts around the globe.



Leonard Roosevelt

ISBN
978-1-63239-534-4

\$120.00 US

2015

Book Size
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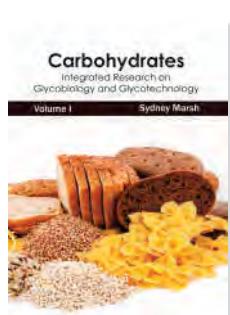
260pp.
Colored

Hardback

Biochemistry

Recent Developments in Embryo Transfer

Embryo transfer is one of the steps in the entire procedure of assisted reproduction. One of the most prolific high-end enterprises today is the embryo transfer domain. This book documents the recent advances and outlooks on newly postulated theories and technological advances related to the transfer of human embryo. The areas of special emphasis discuss challenges faced during the procedure. A few instances of how to improve pregnancy rate by novel techniques have been listed in this book, to give interested readers like embryologists and human IVF specialists, current and useful knowledge, including some critical practice techniques. Detailed contents shed light on the optimal stimulus systems for ovaries, advancements in insemination procedures, advanced embryo transfer technologies and endometrial receptivity, and embryo implantation mechanism. Hence, this book will vastly add to the current knowledge of readers on improving human embryo transfer pregnancy rate.



Sydney Marsh

ISBN
978-1-63239-107-0

\$120.00 US

2015

Book Size
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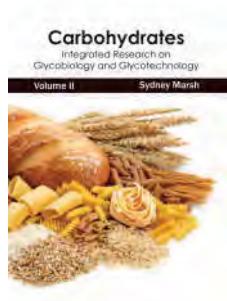
270pp.
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Hardback

Carbohydrate Chemistry

Carbohydrates: Integrated Research on Glycobiology and Glycotechnology Volume I

This book has been compiled for those interested in the study of carbohydrates. This book has many topics which have been addressed by experts from diverse disciplines of microbiology, chemistry, botany, zoology and biotechnology. It encompasses the fundamentals of carbohydrates along with the tools, technologies and experiences for those who are involved in glycobiology and related fields. The book covers organic reactions of carbohydrates, analysis of carbohydrate derivatives, studies of DC-SIGN antagonists and the biosynthesis of carbohydrates in a microorganism. This is a comprehensive book which would cater to the needs of different kinds of readers.



Sydney Marsh

ISBN
978-1-63239-108-7

\$120.00 US

2015

Book Size
6"x9"

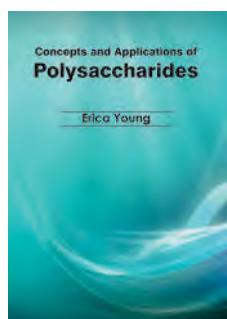
Carbohydrate Chemistry

312pp.
Colored

Hardback

Carbohydrates: Integrated Research on Glycobiology and Glycotechnology Volume II

This book has been compiled for those interested in the study of carbohydrates. The book has many topics for those who are involved in glycobiology and related fields, as it encompasses the fundamentals of carbohydrates in metabolism, the influences of environment and fungi in plant carbohydrates and application of carbohydrates in microbes. This comprehensive book can serve well as an uncomplicated introduction to different disciplines of carbohydrate investigators and glycobiologists.



Erica Young

ISBN
978-1-63239-121-6

\$110.00 US

2015

Book Size
6"x9"

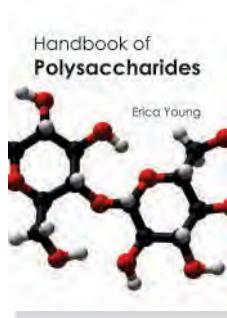
Carbohydrate Chemistry

253pp.
Colored

Hardback

Concepts and Applications of Polysaccharides

This book is a collection of the varied aspects of polysaccharides in microorganisms, plants and animals. The diversity of these polysaccharides emerges from the structural alterations and the monosaccharide content which is under genetic control. Their physical as well as chemical properties have made them useful in a variety of food, pharmaceutical and industrial applications. These properties determine their biological activity and their functions in different applications. The use of polysaccharides as therapeutics, the role played by them in protection and preservation of food, as carriers of drugs, nutrients and their ability to communicate with molecules for improving textures of food colloids, as well as for efficient delivery are a few important functions. The book is organized under two sections: Applications in Food Industry and Applications in Pharmaceutical Industry.



Erica Young

ISBN
978-1-63239-409-5

\$160.00 US

2015

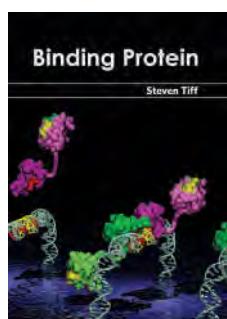
Book Size
6"x9"

404pp.
Colored

Hardback

Handbook of Polysaccharides

This book compiles the various aspects of polysaccharides in microorganisms, plants and animals. The diversity of these polysaccharides emerges from the structural alterations and the monosaccharide content which is under genetic control. Their physical as well as chemical properties have made them useful in a variety of food, pharmaceutical and industrial applications. These properties determine their biological activity and their functions in different applications. The use of polysaccharides as therapeutics, the role played by them in protection and preservation of food, as carriers of drugs, nutrients and their ability to communicate with molecules for improving textures of food colloids, as well as for efficient delivery are a few important functions. The book covers two broad sections namely, Sources & Biological Properties of Polysaccharides and Physical & Chemical Characteristics of Polysaccharides.



Steven Tiff

ISBN
978-1-63239-087-5

\$110.00 US

2015

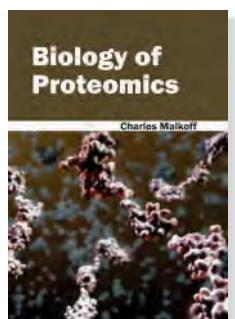
Book Size
6"x9"

Proteins
217pp.
Colored

Hardback

Binding Protein

Information regarding binding proteins has been comprehensively illustrated in this book. Proteins are important drivers of cellular activities. Different types of proteins along with other agents like DNA, RNA and peptides exercise their functions. The proteins and their binding allies must be known in order to comprehend the mechanism through which they work in the cell and the organism. These protein interactions are important in balancing the cell fates and in the production of various drugs. Stability and translations are monitored when proteins bind with mRNA. Also, they participate in processes like cell survival and apoptosis. Proteolysis or protein breakdown is also a result of their interaction with other proteins. This book is the collection of articles by various experts addressing protein interaction with above mentioned agents. This book caters to the interest of the people who are involved in the study of protein interactions and their consequences.



Charles Malkoff

ISBN
978-1-63239-101-8

\$120.00 US

2015

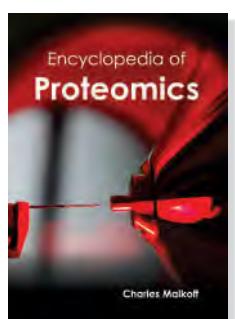
Book Size
6"x9"276pp.
Colored

Hardback

Proteomics

Biology of Proteomics

Proteomics has been at the center of many researches being conducted recently. In the past few years, proteomics have expanded from an exceptionally scientific attempt to an extensively used method. The purpose of this book is to emphasize the methods in which proteomics is presently being employed to address issues in the biological sciences. Although there have been major advances in methods involving the utilization of proteomics in biology, elementary approaches concerning essential sample visualization and protein recognition still represent the principle techniques used by the vast majority of researchers to resolve problems in biology. The data provided in this book extends from the functions of proteomics in specific biological fields to novel researches that have employed a proteomics-based method. Together, they show the power of recognized and rising proteomic methods to exemplify compound biological systems.



Charles Malkoff

ISBN
978-1-63239-287-9

\$110.00 US

2015

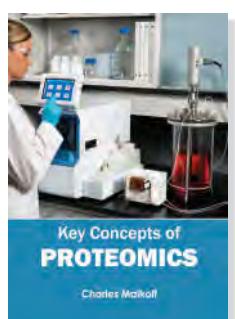
Book Size
6"x9"248pp.
Colored

Hardback

Proteomics

Encyclopedia of Proteomics

Proteomics is fundamentally defined as the extensive study of proteins, their structure as well as functions. It was considered to be an obvious next step in research once the field of genomics had deposited vital magnitude of information. However, plainly taking an instantly verbatim move towards collecting all proteins in all tissues of dissimilar organisms is not practically easy. Experts may need to focus on the aspects of proteomics that are necessary to the functional outcome of the cells. In this book, experts have added viewpoints and fresh improvements in Subproteomes Analyses. Structural proteomics connected to pharmaceutics growth is also an aspect noteworthy of consideration. This book covers both ups and downs of proteomics. It is an ideal reference for students and even experts.



Charles Malkoff

ISBN
978-1-63239-441-5

\$110.00 US

2015

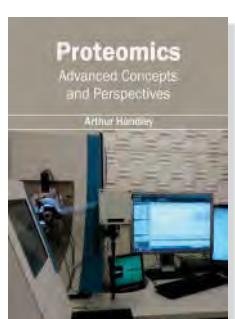
Book Size
6"x9"218pp.
Colored

Hardback

Proteomics

Key Concepts of Proteomics

Proteomics is fundamentally defined as the extensive study of proteins, their structure as well as functions. It was considered to be an obvious next step in research once the field of genomics had deposited vital magnitude of information. However, taking an instantly verbatim move towards cataloging all proteins in all tissues of dissimilar organisms is not practically easy. Experts may need to focus on the aspects of proteomics that are necessary to the functional outcome of the cells. In this book, experts have presented the historical reviews of proteomics, as well as added viewpoints and fresh improvements in gel and non-gel-based protein partition and recognition by mass spectrometry. Extensive accounts have unfolded researches on sub-proteomes such as phosphoproteomes or glycoproteomes which are straightforwardly linked to functional outcomes of the cells. Structural proteomics connected to pharmaceutics growth is also an aspect noteworthy of consideration. Bioinformatics instruments that can extract proteomics information are also examined. This book is an ideal reference for students and experts.



Arthur Handley

ISBN
978-1-63239-526-9

\$150.00 US

2015

Book Size
8.5"x11"217pp.
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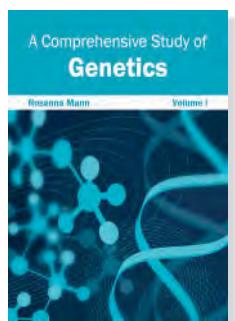
Hardback

Proteomics

Proteomics: Advanced Concepts and Perspectives

The aim of this book on proteomics is to provide readers an overview of the advancements in this subject. It carries descriptions of problems and conceptual challenges which are yet to be solved. This book gives insights to the reader on the concepts of proteomics through different chapters, which have been arranged in a simplified manner. This book will prove helpful to scientists and students who are involved in protein research from a basic, translational, or clinical perspective.

Biochemistry, Genetics, Biotechnology and Molecular Biology

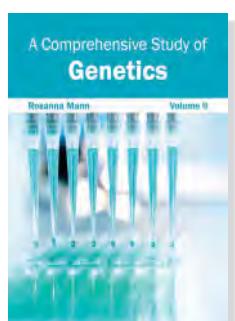


Genetics

Rosanna Mann	ISBN 978-1-63239-007-3	\$150.00 US	2015	Book Size 8.5"x11"	214pp. Colored	Hardback
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A Comprehensive Study of Genetics: Volume I

Genetics refers to the in-depth study of human genes. Genetics has revolutionized the existence of living beings. This book delves into heredity and variations in living organisms, human and otherwise. Numerous researches from across the globe in this discipline have been incorporated in this book. It aims to serve as a resource guide to students as well as researchers.

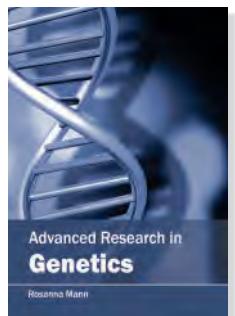


Genetics

Rosanna Mann	ISBN 978-1-63239-008-0	\$150.00 US	2015	Book Size 8.5"x11"	204pp. Colored	Hardback
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A Comprehensive Study of Genetics: Volume II

Genetics refers to the in-depth study of human genes. Genetics has revolutionized the existence of living beings. This book delves into heredity and variations in living organisms, human and otherwise. Numerous researches from across the globe in this discipline have been incorporated in this book. It aims to serve as a resource guide to students as well as researchers.

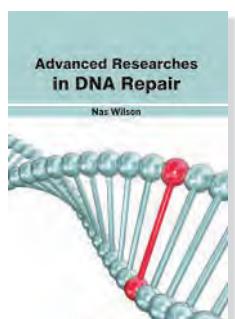


Genetics

Rosanna Mann	ISBN 978-1-63239-024-0	\$150.00 US	2015	Book Size 8.5"x11"	212pp. Colored	Hardback
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Advanced Research in Genetics

Genetics is an ever expanding and advancing field of study. Genetics not only studies the human DNA, but also the genes of plants and animals. This field has a wide scope of research. This book is an attempt to compile and collate all available research on genetics under one umbrella. It brings forth revolutionary researches and innovative concepts in the discipline from across the globe. Those in search of information to further their knowledge of this field will be assisted by this book.



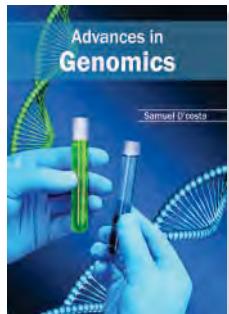
Genetics

Nas Wilson	ISBN 978-1-63239-025-7	\$150.00 US	2015	Book Size 6"x9"	378pp. Colored	Hardback
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Advanced Researches in DNA Repair

This book is designed to serve as a useful resource for scientists as well as students associated with the field of DNA repair. Selected topics are described in this book for the illustration of latest concepts in DNA repair and the cross-talks between DNA repair and other basic cellular processes. The aim of this book is to serve as a valuable source of reference in seminars as well as courses and for biologists interested in the field of DNA repair.

Genetics



Samuel D'costa

ISBN
978-1-63239-045-5

\$150.00 US

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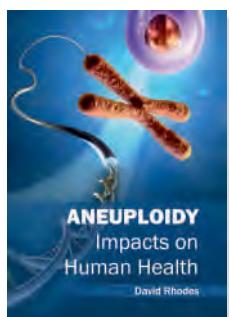
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220pp.
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Hardback

Advances in Genomics

Genomics is the branch of genetics that deals with the function and structure of genome. With the advent of new technologies, the scope and speed of completion of genome sequencing projects has further intensified. This book sheds light on crucial aspects of understanding and developing genomes. With inputs from people who have spent decades in the field, this book will serve as an advanced text for researchers and students alike.



David Rhodes

ISBN
978-1-63239-071-4

\$120.00 US

2015

Book Size
6"x9"

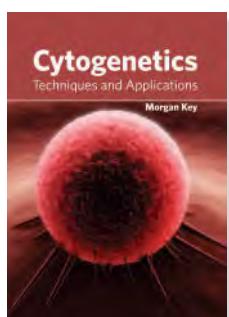
256pp.
Colored

Genetics

Hardback

Aneuploidy: Impacts on Human Health

Aneuploidy is one of the most common chromosome abnormalities in human beings. The term 'aneuploidy' refers to any karyotype that does not hold the characteristics of any euploid. Nevertheless, two distinguished traits make the study of aneuploidy very difficult. Firstly, quite frequently it is difficult to identify its causes and consequences. Next, aneuploidy is often connected with a continual deficit in upholding genome stability. Hence, studying aneuploid, unbalanced cells pertains to analyzing a perennially dynamic creature and cataloguing the features that persist. In this book, an overview on the current advancements in comprehending the sources and outcomes of aneuploidy and its link to human pathologies has been presented.



Morgan Key

ISBN
978-1-63239-144-5

\$90.00 US

2015

Book Size
6"x9"

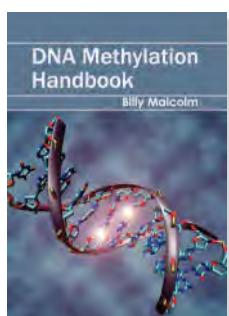
158pp.
Colored

Genetics

Hardback

Cytogenetics: Techniques and Applications

This book discusses the current trends in the field of cytogenetics. It involves the specifics and particulars of the methodologies that can be accepted and used in clinical laboratories. The book discusses the basic methods of cell lines, primary cultures and their usage; array CGH for diagnosis of fetal conditions; micro technologies and automations; use of chromosomes as tools to find biodiversity and usage of digital image technology. It also includes methods to deal with acute lymphoblastic and myeloblastic leukemia in patients and survivors of atomic bomb exposure. While focusing on the advanced practices used in this field and its applications, this book demonstrates the urgency to establish cytogenetic labs with modern and latest equipment. This book will aid in accurate and effective diagnosis which will further benefit patients.



Billy Malcolm

ISBN
978-1-63239-148-3

\$150.00 US

2015

Book Size
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399pp.
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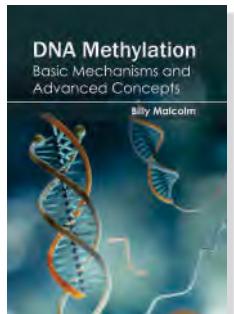
Genetics

Hardback

DNA Methylation Handbook

This book aims to educate readers about the concepts of DNA methylation. Epigenetics is one of the most thrilling and speedily increasing areas of modern genetics with functions in many disciplines from medication to cultivation. The most frequent form of epigenetic alteration is DNA methylation, which plays a key role in primary developmental procedures such as embryogenesis and also in the response of organisms to a broad variety of ecological stimuli. Certainly epigenetics is being fast regarded as one of the main mechanisms used by animals and plants to alter their genome and its appearance to adapt to a diverse number of ecological factors. This book is a compilation of research into DNA methylation and highlights recent advances in methodology and information of underlying mechanisms of this most significant of genetic procedures.

Genetics



Billy Malcolm

ISBN
978-1-63239-149-0

\$140.00 US

2015

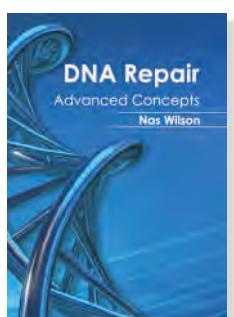
Book Size
6"x9"

309pp.
Colored

Hardback

DNA Methylation: Basic Mechanisms and Advanced Concepts

This book presents an elucidative account on the mechanisms and fundamental concepts of DNA Methylation. Alterations in the normal DNA methylation processes can inflict serious results on embryonic growth and are related with congenital flaws, autoimmunity, aging and malignant transformation. The prime objective of this book is to deliver information about the significance of methylation process in human health and disease. This book encompasses the elementary mechanism of DNA and protein methylation, with emphasis on undergraduate and graduate biomedical students and researchers working in the field of epigenetics. It provides an account on background and latest information in the field of methylation. It also provides readers with both traditional and relevant recent developments in this field, indicating new pathways where questions remain unanswered.



Nas Wilson

ISBN
978-1-63239-150-6

\$110.00 US

2015

Book Size
6"x9"

250pp.
Colored

Hardback

DNA Repair: Advanced Concepts

The procedure of regeneration of damaged DNA molecule by the identification of its genome by the cell is referred to as DNA repair. This book is a collection of several chapters divided into various distinct categories. Each chapter has been researched by leading experts in their respective fields. The range of the book varies from the DNA damage response and DNA repair methods to transformational characteristics of DNA repair, providing a picture of present perceptions of the DNA repair procedure and the function of microRNA in DNA damage response. This book consists of several case studies and also examines the evolution of DNA repair in plants and meiosis as an evolutionary adaptation for DNA Repair.



Nas Wilson

ISBN
978-1-63239-151-3

\$120.00 US

2015

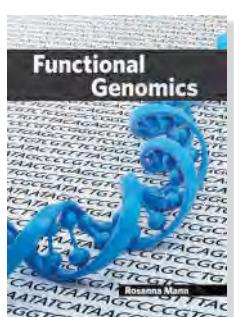
Book Size
6"x9"

294pp.
Colored

Hardback

DNA Repair: Novel Insights

This book provides novel insights into DNA and is designed to serve as a useful resource for scientists as well as students associated with the field of DNA repair. Topics described in this book for the illustration of clinical translational efforts based on paradigms established in DNA repair such as diagnostic, therapeutic and analytical. The aim of this book is to serve as a valuable source of reference in seminars as well as courses and for biologists interested in the field of DNA repair.



Rosanna Mann

ISBN
978-1-63239-347-0

\$110.00 US

2015

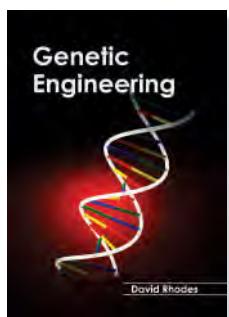
Book Size
6"x9"

211pp.
Colored

Hardback

Functional Genomics

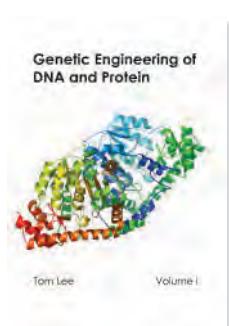
Functional genomics is a field of molecular biology that allows the exploration of genes, interactions and protein functions on a universal level. This book highlights important matters in the branch of functional genomics, ranging from evaluation of the genetic codes, to understanding of the role of varied genes and proteomic ramifications. This book gives a perspective on primary problems and latest progresses in science and technology in the field of genomics medicine. Due to the vastness of the subject of functional genomics and further important sub-divisions like its applications, it is not possible to cover it all in one single book. Therefore, this book provides a short preface to various topics, dealing mainly with their relation to functional genomics and stresses on its particular uses in bio-medicine, agro-food technologies and zootechniques.



David Rhodes	ISBN 978-1-63239-350-0	\$80.00 US	2015	Book Size 6"x9"	137pp. Colored	Hardback
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Genetic Engineering

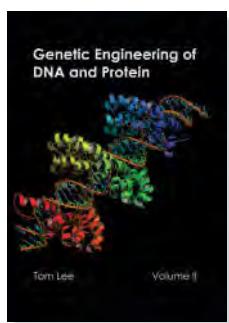
Genetic engineering, also known as genetic modification, is a highly complicated and advanced branch of science. This book provides an insight into various matters related to genetic engineering of microorganisms, plants and animals. It particularly includes natural and social sciences. In context of natural science, this book covers topics ranging from the genetic engineering of microorganisms to production of antibiotics, the gene focusing and transformation in plants, the era of marker-free plants in answer to biosafety issues, and also the generation of transgenic animals and those made by cloning are covered. In context of social science, it discusses the problems related to ethics and morals in biotechnology and the role of media in reporting around the cloned sheep, Dolly.



Tom Lee	ISBN 978-1-63239-351-7	\$110.00 US	2015	Book Size 6"x9"	212pp. Colored	Hardback
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Genetic Engineering of DNA and Protein: Volume I

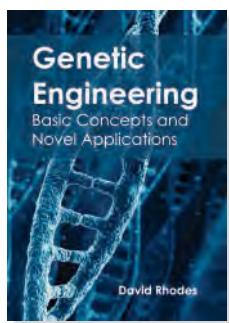
This book provides readers with research works on worldwide discussions on the topic of latest molecular genetics. There are two approaches of every research work published in this book; first, to make the research chapters understandable to majority of readers and second, to describe the genetic tools and pathways used in research. The one fact mostly highlighted is the necessity of genetic insight in solving an issue. This book will prove to be an interesting read to those interested in genetic discoveries because of its structure, which has been made with a view point of attracting readers and familiarizing them with genetic approaches.



Tom Lee	ISBN 978-1-63239-352-4	\$110.00 US	2015	Book Size 6"x9"	262pp. Colored	Hardback
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Genetic Engineering of DNA and Protein: Volume II

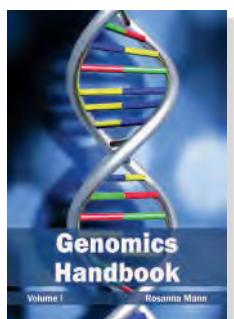
This book provides readers with research works in discussion worldwide on the topic of latest molecular genetics. There are two approaches of every research work published in this book; first, to make the research chapters understandable to majority of readers and second, to describe the genetic tools and pathways used in research. The one fact mostly highlighted is the necessity of genetic insight in solving an issue. This book will prove to be an interesting read to those interested in genetic discoveries because of its structure, which has been made with a point of view for attracting readers and familiarizing them with genetic approaches in disease - related research, applied research and new tools for molecular genetics.



David Rhodes	ISBN 978-1-63239-353-1	\$120.00 US	2015	Book Size 6"x9"	268pp. Colored	Hardback
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Genetic Engineering: Basic Concepts and Novel Applications

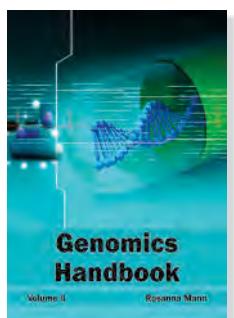
The basic concepts and novel applications in the field of genetic engineering are described in this book. Leading experts from diverse nations around the globe have made important contributions on the fundamental applications and responsibilities of the powerful genetic engineering tools now accessible for adjusting the molecules, characteristics and pathways of species of industrial and medicinal significance. After several years of researching on such instruments, we now see a better technology and developed guidelines to keep away accidental damage to our and other species and environment, while trying to resolve the organic, medicinal and technological challenges of society and engineering. Data on thermo-stabilization of luciferase and engineering of the phenylpropanoid path in various organisms has been analyzed in this book thoroughly. Additional capable revitalization of transgenic soybean, viral defiant plants and a fresh advance for speedily showing features of recently discovered animal development hormones exemplify the modern expertise of genetic engineering. This book thoroughly explains certain aspects of genetic engineering to help our readers in gaining more knowledge regarding this science.



Rosanna Mann	ISBN 978-1-63239-354-8	\$150.00 US	2015	Book Size 8.5"x11"	214pp. Colored	Hardback
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Genomics Handbook: Volume I

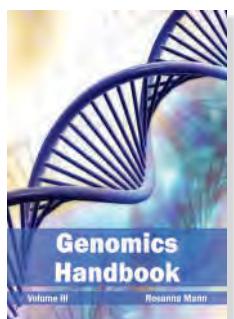
This book attempts to understand the intricacies of genomics and how such research is relevant to our lives along with its ramifications in real world applications. The various studies that are constantly contributing towards advancing technologies and the evolution of this field are examined in detail. Those in search of information to further their knowledge of this field will be greatly assisted by this book.



Rosanna Mann	ISBN 978-1-63239-355-5	\$150.00 US	2015	Book Size 8.5"x11"	216pp. Colored	Hardback
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Genomics Handbook: Volume II

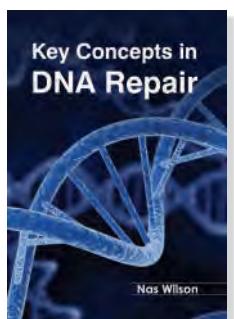
This book attempts to understand the intricacies of genomics and how such research is relevant to our lives along with its ramifications in real world applications. The various studies that are constantly contributing towards advancing technologies and the evolution of this field are examined in detail. Those in search of information to further their knowledge of this field will be greatly assisted by this book.



Rosanna Mann	ISBN 978-1-63239-356-2	\$150.00 US	2015	Book Size 8.5"x11"	215pp. Colored	Hardback
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Genomics Handbook: Volume III

This book attempts to understand the intricacies of genomics and how such research is relevant to our lives along with its ramifications in real world applications. The various studies that are constantly contributing towards advancing technologies and the evolution of this field are examined in detail. Those in search of information to further their knowledge of this field will be greatly assisted by this book.

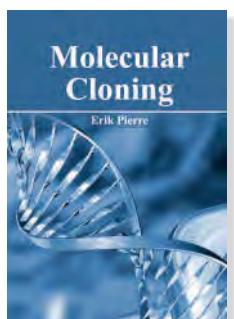


Nas Wilson	ISBN 978-1-63239-439-2	\$150.00 US	2015	Book Size 6"x9"	411pp. Colored	Hardback
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Key Concepts in DNA Repair

The book provides an overview of current knowledge and discusses some of the unanswered questions at the forefront of research on the key concepts in DNA Repair. This book is a collection of several chapters divided into various distinct sections. Each chapter has been researched by leading experts in their respective fields. The range of the book varies from the DNA damage response and DNA repair methods to transformational characteristics of DNA repair, providing a picture of present perceptions of the DNA repair procedure to roles of DNA repair gene mutations in carcinogenesis and neurodegeneration. This book is a collection of contemporary works on DNA injury and the associated cellular response.

Genetics



Erik Pierre

ISBN
978-1-63239-468-2

\$140.00 US

2015

Book Size
6"x9"

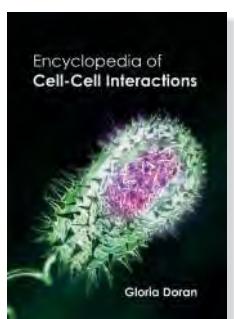
339pp.
Colored

Hardback

Molecular Cloning

Technology is the boon of modern times. The expansion of molecular cloning technology in the late 20th century created an uprising in the biological and biomedical sciences that extends till today. This book supplies the reader with a viewpoint on how extensive the functions of molecular cloning have become. The data in this book is arranged in sections based on functions, and range from cancer biology and immunology to plant and evolutionary biology. This book even covers a broad variety of technological techniques such as situational cloning and exceptional tools for recombinant protein appearance. This book intends to provide some useful information for students and experts.

Cell Biology



Gloria Doran

ISBN
978-1-63239-220-6

\$140.00 US

2015

Book Size
6"x9"

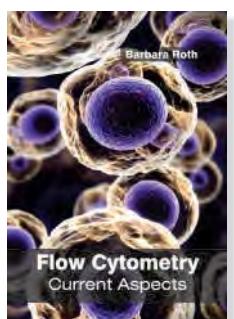
334pp.
Colored

Hardback

Encyclopedia of Cell-Cell Interactions

This book is a detailed and comprehensive medium helping students and researchers to understand cell-cell interactions. It describes various cell activities occurring within and outside the cells. Cell interactions are essential for the proper working of various organ systems. Cell adhesion, tissue regeneration, cellular interactions, metastatic cancer etc. are some of the activities and interactions occurring in human body. Some important features such as developmental, immune and neural cell interactions in both healthy as well as diseased states and state-of-the-art cell interactions assessment methods have also been discussed. This book will serve as a great resource to the scientists and professionals working in this domain.

Cell Biology



Barbara Roth

ISBN
978-1-63239-335-7

\$120.00 US

2015

Book Size
6"x9"

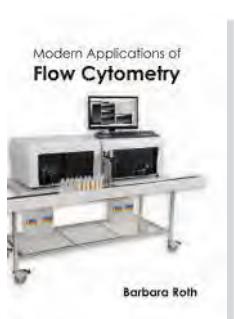
272pp.
Colored

Hardback

Flow Cytometry: Current Aspects

The current aspects related to the technology of flow cytometry are discussed in this book. It is a compilation of complete reviews and unique technical researches. The data demonstrates the continuously developing application of flow cytometry in a varied number of technical fields as well as its wide-scale utilization evident from the global composition of the group of contributing authors. The book deals with the employment of cytometry methodology in fundamental sciences and covers many diverse fields of aquatic and plant ecology. This book intends to present some useful information to students and experts dealing with flow cytometry.

Cell Biology



Barbara Roth

ISBN
978-1-63239-462-0

\$110.00 US

2015

Book Size
6"x9"

216pp.
Colored

Hardback

Modern Applications of Flow Cytometry

This book consists of a collection of reviews and original researches that depicts the purpose and importance of this field for the study of specific diseases and evaluations. It presents inputs given by authors from various countries discussing the broad application and importance of clinical flow technology in medicine. Some of the topics discussed are autoimmune disease, cancer and the evaluation of new drugs. The book intends to give beginners a helpful introduction, but it also caters to the experienced flow cytometrists with new insights and a better knowledge of clinical cytometry.

Cell Biology

Modern Concepts of
FLOW CYTOMETRY



Barbara Roth

ISBN
978-1-63239-463-7

\$110.00 US

2015

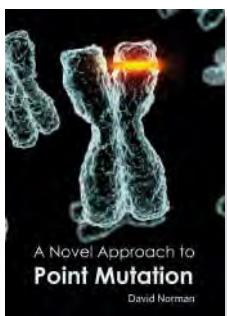
Book Size
6"x9"

252pp.
Colored

Hardback

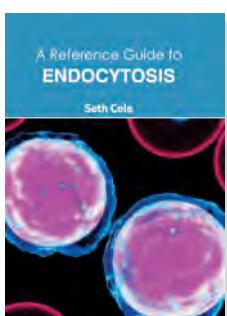
Modern Concepts of Flow Cytometry

This book is a compilation of complete reviews and unique technical researches in modern concepts of flow cytometry. The data demonstrates the continuously developing application of flow cytometry in a varied number of technical fields as well as its wide-scale utilization evident from the global composition of the group of contributing authors. The book deals with the employment of the flow cytometry methodology in fundamental sciences and covers many diverse fields of microbiology, biotechnology etc. This book offers useful information to students and experts dealing with flow cytometry.



A Novel Approach to Point Mutation

A mutation resulting in a single base nucleotide being replaced by a genetic nucleotide is referred to as point mutation. This text sheds light on the marks left behind in chromosomes by the influencers that propel the DNA code evolution in the form of DNA nucleotide replacements. Since the genetic code is crucial in prior determination of the molecular foundation of existence, it can affect any facet of biology. Incidentally, it is concerned primarily with the evolution of germs and their human hosts. The unique distinction of this text is the rapid pace at which DNA information has been gathered over the past few years and how advancements in this exciting field of study are currently being applied in the medical world.



Seth Cole

ISBN
978-1-63239-011-0

\$160.00 US

2015

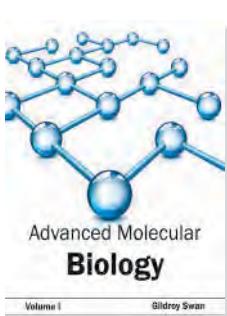
Book Size
6"x9"

470pp.
Colored

Hardback

A Reference Guide to Endocytosis

This book is a valuable resource which provides essential information on endocytosis. It is a collection of systematic theories and researches regarding the entrance of exterior substances into cells. As discussed in this book, endocytosis adjusts various procedures such as homeostasis of the cell, sign transduction, and entrance of viruses. In addition to the investigational methods analyzed in every chapter, the complete book is devoted to investigational approaches that will be useful for all the researchers dealing with this subject. For those more technically oriented, certain chapters look at the potential and utilization of endocytic pathways for therapeutic principles.



Gildroy Swan

ISBN
978-1-63239-019-6

\$150.00 US

2015

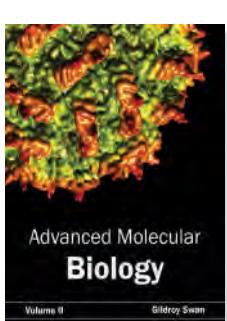
Book Size
8.5"x11"

221pp.
Colored

Hardback

Advanced Molecular Biology: Volume I

This book presents the complex subject of molecular biology in the simplest way possible. Capturing its progress from the initial days to modern times, the book strives to cover all the aspects possible. Coherent flow of topics, student friendly language, and extensive use of diagrams make it a must read. It aims to serve as a resource guide for students and experts alike and also contribute to the growth of this discipline.



Gildroy Swan

ISBN
978-1-63239-020-2

\$150.00 US

2015

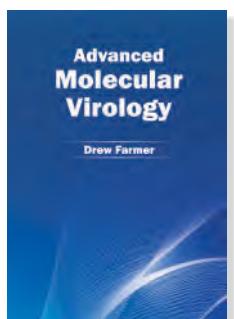
Book Size
8.5"x11"

203pp.
Colored

Hardback

Advanced Molecular Biology: Volume II

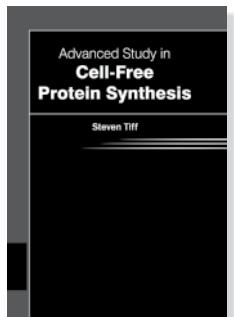
This book presents the complex subject of molecular biology in the simplest way possible. Capturing its progress from the initial days to modern times, the book strives to cover all the aspects possible. Coherent flow of topics, student friendly language, and extensive use of diagrams make it a must read. It aims to serve as a resource guide for students and experts alike and also contribute to the growth of this discipline.



Drew Farmer	ISBN 978-1-63239-021-9	\$90.00 US	2015	Book Size 6"x9"	180pp. Colored	Hardback
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Advanced Molecular Virology

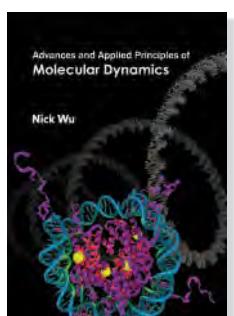
This book aims to serve as a sourcebook for molecular virology. This text deals with diverse features of molecular virology. The book analyses HIV-1 virus and its latency and how these twin phenomena have remained a dispute to abolition. Features concerning the molecular evolution of hepatitis viruses, including their genetic variety, with suggestions for vaccine improvement are discussed within this book. Metabolic diseases that are a result of the hepatitis C virus are analyzed. This book even deals with influenza C virus and the functions of viral vectors in beneficial study. Avian influenza and the healing prospective of belladonna-200 against Japanese encephalitis virus disease are, also, researched within this book. Baculoviruses and its relations with polydnnaviruses are thoroughly revised in this text. This book intends to help students and experts in gaining more knowledge regarding the above stated topics.



Steven Tiff	ISBN 978-1-63239-028-8	\$80.00 US	2015	Book Size 6"x9"	146pp. Colored	Hardback
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Advanced Study in Cell-Free Protein Synthesis

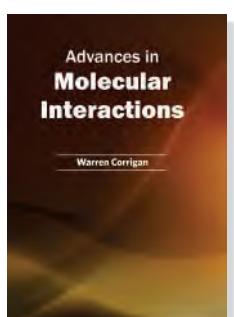
An advanced study in cell-free protein synthesis has been described in this up-to-date book. The Nobel Prize in Medicine, 1968 was given for interpretation of the genetic code and its function in protein synthesis and in Chemistry, 2009 for studies of the structure and function of the ribosome. These have highlighted the ground-breaking experiment of the first elucidation of a codon performed by Marshall Nirenberg and Heinrich J. Matthaei on May 15, 1961 and their principal breakthrough in the creation of cell-free protein synthesis (CFPS) system. Since then successive technical developments have led to the emergence of CFPS system as a crucial and effective technology platform for industrial and high-throughput protein production. CFPS provides a high grams protein per liter reaction volume and holds various benefits such as the capability to easily manipulate the reaction components and conditions favoring protein synthesis, reduced sensitivity to product toxicity, batch reactions lasting for extended periods of several hours, highly reduced costs, and adequacy for miniaturization and high-throughput applications. These advantages have led to a continuum of growing interest towards understanding CFPS system among biotechnologists, molecular biologists, pharmacologists and medical practitioners.



Nick Wu	ISBN 978-1-63239-034-9	\$160.00 US	2015	Book Size 6"x9"	439pp. Colored	Hardback
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Advances and Applied Principles of Molecular Dynamics

This book elucidates the ever-growing applications of molecular dynamics simulations to overcome a broad spectrum of scientific and engineering obstacles. It examines the fast advancement of molecular dynamics simulations in several fields of science and technology like energy research, nanotechnology, and biology, because of the developments of novel dynamics theories and the exceptional power of contemporary computers. This book highlights a basic description of underlying theories of molecular dynamics simulations and presents an all-inclusive coverage of molecular dynamics simulations in energy and nanotechnology which includes latest developments of this theory, diffusion and dissociation of gas and liquid molecules on metal, silicon, or metal organic frameworks, description of nuclear structures, etc.



Warren Corrigan	ISBN 978-1-63239-049-3	\$150.00 US	2015	Book Size 6"x9"	382pp. Colored	Hardback
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Advances in Molecular Interactions

Materials science is a vast field of study. It mostly deals with interatomic connections within molecules, without paying much attention to fragile intermolecular interactions. However, the varied structures are, in fact, the consequence of weak ordering because of noncovalent interactions. For self-gathering to be feasible in soft materials, it is obvious that the forces between molecules must be more fragile than covalent bonds among the atoms of a molecule. The fragile intermolecular interactions accountable for molecular ordering in flexible materials consist of hydrogen bonds, management bonds in ligands and compounds, among others. Current developments in nano science and technology offer certain well-built arguments to sustain the significance of the subjects discussed in this book. The essential and productive features connected to molecular interactions are analyzed. This book intends to provide some useful information for students and experts so as to understand the subject better.



Ralph Becker

ISBN
978-1-63239-110-0

\$110.00 US

2015

Book Size
6"x9"

Molecular Biology

220pp.
Colored

Hardback

Cell Metabolism

A global research community of scientists is studying the biochemical mechanisms that manage regular cellular physiology in various organisms. A great deal of ongoing research focuses on understanding the network of molecular reactions that regulates cellular homeostasis. Another area of research attempts to learn what permits cells to sense stress and activate suitable biochemical responses. This book involves advanced molecular devices and state-of-the-art imaging techniques to provide new insights into how changes in the environment can affect organisms; as well as to generate therapeutic interventions for correcting aberrant pathways in human disease.



Tom Lee

ISBN
978-1-63239-152-0

\$120.00 US

2015

Book Size
6"x9"

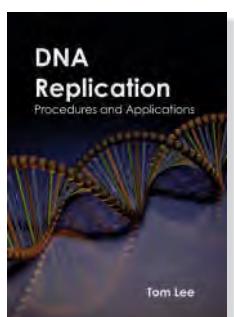
Molecular Biology

258pp.
Colored

Hardback

DNA Replication

DNA replication is a basic part of the life cycle of all the organisms. Many characteristics of this process show thorough conservation across organisms in all domains of life. This book outlines and reviews the present condition of knowledge on numerous crucial aspects of the DNA replication procedure. The book contains novel insights into the whole process of DNA replication covered under two broad sections, "Machines that Drive DNA Replication" and "Mechanisms that Protect Chromosome Integrity during DNA Replication". It is also a compilation of thought provoking questions and summaries to give way to future investigations.



Tom Lee

ISBN
978-1-63239-153-7

\$110.00 US

2015

Book Size
6"x9"

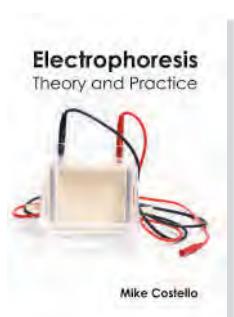
Molecular Biology

241pp.
Colored

Hardback

DNA Replication: Procedures and Applications

This book outlines and reviews the present condition of knowledge on numerous crucial aspects of the DNA replication procedure. DNA replication is a basic part of the life cycle of all the organisms. DNA replication is a crucial process in both development and growth and in relation to a wide variety of pathological conditions including cancer. The book contains novel insights into the whole process of DNA replication under these sections: "Replication of Organellar Chromosome", "Chromatin and Epigenetic Influences" and "Telomeres". The topics provide the basis for thought provoking questions and summaries to give way to future investigations.



Mike Costello

ISBN
978-1-63239-168-1

\$110.00 US

2015

Book Size
6"x9"

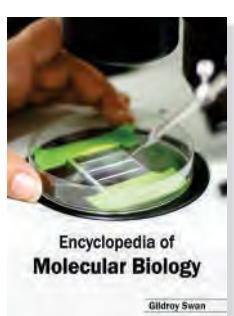
Molecular Biology

246pp.
Colored

Hardback

Electrophoresis: Theory and Practice

The phenomenon of electrophoresis is descriptively elucidated in this comprehensive book. In the early days, electrophoresis was carried out either in free solution or in supporting media such as paper, cellulose acetate, starch, agarose and polyacrylamide gel. Between 1950 and 1970, numerous techniques and instrumentation for electrophoresis were developed. This book discusses fundamentals on capillary electrophoresis and diverse application of electrophoresis in general. This book will prove valuable to readers who are interested in fundamentals as well as applications of electrophoresis in general.



Gildroy Swan

ISBN
978-1-63239-274-9

\$150.00 US

2015

Book Size
8.5"x11"

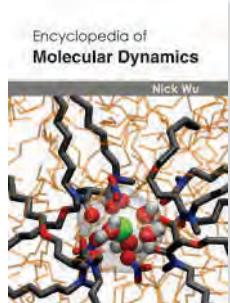
Molecular Biology

220pp.
Colored

Hardback

Encyclopedia of Molecular Biology

The book compiles the data and research that is available on molecular biology and attempts to decipher their findings. The research that is still changing the face of microbiology across the globe is discussed and their applications in other fields are also delved into. This book presents up-to-date data that will help the readers keep pace with advancements in the field. Researchers and students as well as professionals in this field will find this book a good accompaniment to their study.



Nick Wu

ISBN
978-1-63239-275-6

\$160.00 US

2015

Book Size
6"x9"

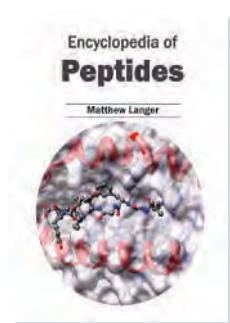
Molecular Biology

447pp.
Colored

Hardback

Encyclopedia of Molecular Dynamics

Molecular systems consist of a vast number of particles whose physical movements can be studied under molecular dynamics. This book is a compilation of the productive functions of molecular dynamics simulations to resolve a broad variety of technical and production complications. The data in this book presents the progress of molecular dynamics recreations in various fields of science and technology, such as nanotechnology, energy research, and environmental science, due to the progress of new dynamics conjectures and the astonishing power of today's technology. This book begins by introducing molecular dynamics simulations, and then, demonstrates the computer research done by means of molecular dynamics simulations in the researches of artificial and natural macromolecules. This book also deals with a lot of other related topics, such as difficult development and dynamics of polymers like DNA, RNA, etc.



Matthew Langer

ISBN
978-1-63239-276-3

\$150.00 US

2015

Book Size
8.5"x11"

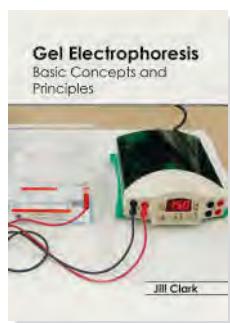
Molecular Biology

224pp.
Colored

Hardback

Encyclopedia of Peptides

Peptides have emerged as a significant part of microbiology. On the basis of their production method, peptides are classified into various segments. Peptides are hence being extensively studied by researchers across the globe. This book takes a closer look at peptides, their production, from functions and other details, aided by inputs from experts in the field who have contributed to the creation of this text. It brings to the fore the latest advancements brought about in this field of study through incessant work done by scholars and researchers from across the world. This book is relevant to students and experts alike.



Jill Clark

ISBN
978-1-63239-348-7

\$150.00 US

2015

Book Size
6"x9"

Molecular Biology

365pp.
Colored

Hardback

Gel Electrophoresis: Basic Concepts and Principles

The basic concepts and principles of gel electrophoresis are illustrated in this all-inclusive book. Gel electrophoresis covers numerous gel-based division methods that rely mostly on fractionating biomolecules on the basis of molecular weight using electrophoretic current. A majority of people should be in agreement to the fact that it is one of the essential supports of molecular biology. In this book, the writers have attempted to provide an account of basic principles of gel-based division together with exceptional applications of this flexible method. We have tried to keep the data of the book simple and all-inclusive, and we intend to help students and experts in gaining more knowledge regarding the topic.



Jill Clark

ISBN
978-1-63239-349-4

\$120.00 US

2015

Book Size
6"x9"

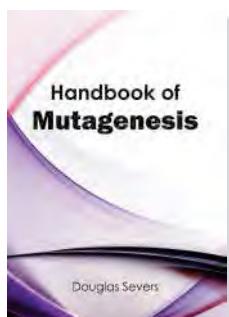
Molecular Biology

268pp.
Colored

Hardback

Gel Electrophoresis: Novel Approaches

As a fundamental concept, gel electrophoresis is a biotechnology method in which macromolecules such as DNA, RNA or protein are fragmented according to their physical characteristics such as molecular mass or charge. These molecules are enforced throughout a porous gel matrix in the influence of electric field enabling countless functions and utilizations. This book is not all-inclusive but still covers a majority of applications of this technique in the varied fields of medical and life sciences. This book contains three sections: Electrophoresis Application in Ecological and Biotechnological Aspects, Electrophoresis Application in Bacteriology, Parasitology, Mycology and Public Health, and Analysis of Protein-Nucleic Acid Interaction and Chromosomal Replication. We have made an attempt to keep the data of the book detailed and wide-ranging.



Douglas Severs

ISBN
978-1-63239-406-4

\$120.00 US

2015

Book Size
6"x9"

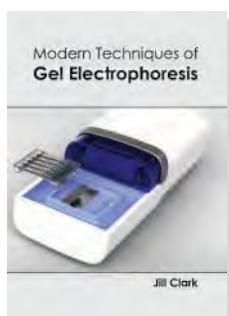
Molecular Biology

258pp.
Colored

Hardback

Handbook of Mutagenesis

Mutagenesis is a vast field of study. The difficulty in comprehension of biochemical and molecular foundations of healthy life, and enthusiasm to find easy explanation demands advancement of skills like mutagenesis. The data in this book contains experiences of experts working in the field of mutagenesis. It explains appropriate investigational representations for testing spontaneous and induced mutations which are helpful for fundamental and translational study. It contains techniques in the direction of gene targeting, creating disease and pest opposing plants, generating temperature responsive molecular tools, comprehending mitochondrial mutagenesis, identifying anti-mutagens, and enhancing genetic insight into damaged immunity and disease. It even explains mutagenesis induced by DNA destruction. It also presents benefits of in-vitro transcription and transformation to yield proteins with point mutations, DNA-protein or protein-protein interaction. This book intends to provide some useful data to its readers so that they can understand mutagenesis better.



Jill Clark

ISBN
978-1-63239-466-8

\$110.00 US

2015

Book Size
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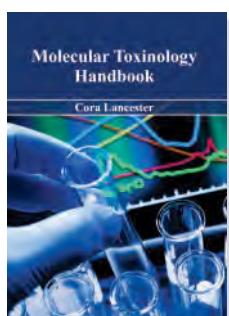
Molecular Biology

256pp.
Colored

Hardback

Modern Techniques of Gel Electrophoresis

As a fundamental concept, gel electrophoresis is a biotechnology method in which macromolecules such as DNA, RNA or protein are fragmented according to their physical characteristics such as molecular mass or charge. These molecules are enforced throughout a porous gel matrix in the influence of electric field enabling countless functions and utilizations. This book is not all-inclusive but still covers a majority of applications of this technique in the varied fields of medical and life sciences. This book is divided into four sections: Electrophoresis Application in Enzymology, Temporal Temperature Gel Electrophoresis, Two-Dimensional Gel Electrophoresis (2-DE) and Other Applications of Gel Electrophoresis Technique. We have made an attempt to keep the data of the book detailed and wide-ranging, and we hope that it will benefit the readers.



Cora Lancaster

ISBN
978-1-63239-469-9

\$110.00 US

2015

Book Size
6"x9"

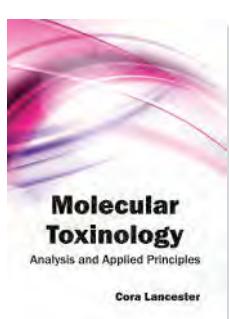
Molecular Biology

245pp.
Colored

Hardback

Molecular Toxicology Handbook

Molecular Toxicology has been established as a scientific discipline focused on the interconnected description of various aspects of animal toxins, which appear as an invaluable source for the discovery of therapeutic polypeptides in an investigative biotechnological world. Animal toxins rely on particular chemical interactions with their partner molecule to exercise their biological actions. The comprehension of how molecules interact and identify their target is important for the rational exploration of bioactive polypeptides as therapeutics. Investigation on the mechanism of molecular interaction and identification provides a world of new opportunities for the pharmaceutical industry and clinical medicine. This book presents topics on molecular toxinology concerning integration between analytical procedures and biomedical applications.



Cora Lancaster

ISBN
978-1-63239-470-5

\$140.00 US

2015

Book Size
6"x9"

Molecular Biology

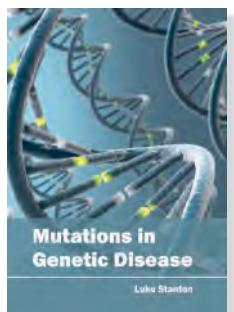
298pp.
Colored

Hardback

Molecular Toxicology: Analysis and Applied Principles

Molecular Toxicology has been established as a scientific discipline focused on the interconnected description of various aspects of animal toxins, which appear as an invaluable source for the discovery of therapeutic polypeptides in an investigative biotechnological world. Animal toxins rely on particular chemical interactions with their partner molecule to exercise their biological actions. The comprehension of how molecules interact and identify their target is important for the rational exploration of bioactive polypeptides as therapeutics. Investigation on the mechanism of molecular interaction and identification provides a world of new opportunities for the pharmaceutical industry and clinical medicine. This book presents topics on molecular cloning and genetics, and molecular recognition.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Luke Stanton

ISBN
978-1-63239-471-2

\$140.00 US

2015

Book Size
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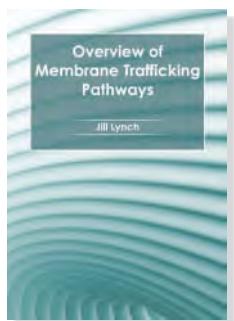
Molecular Biology

305pp.
Colored

Hardback

Mutations in Genetic Disease

This compelling book written for readers with interest in mutations in genetic disease provides an important source of information in the field. Various types of mutations can vary in size, from structural variants to single base-pair substitutions, but what they all have in common is that their size, location and nature are often decided either by particular aspects of the local DNA sequence environment or by higher order features of the genomic architecture. The genomes of higher organisms are now believed to consist of pervasive architectural flaws and in that, some DNA sequences are inherently mutation prone by virtue of their sequence repetition, base composition or/and epigenetic optimization. In this book, several distinct authors from across the globe have provided valuable information elucidating how the location, frequency and nature of various types of mutation causing inherited diseases are shaped in large parts, and often in considerably predictable ways, by the local DNA sequence environment.



Jill Lynch

ISBN
978-1-63239-500-9

\$120.00 US

2015

Book Size
6"x9"

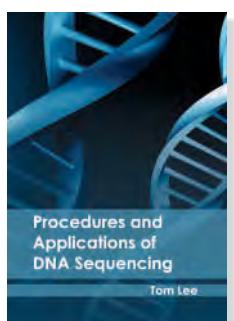
Molecular Biology

258pp.
Colored

Hardback

Overview of Membrane Trafficking Pathways

An overview of membrane trafficking pathways has been provided in this all-inclusive book. Membrane traffic is a wide domain that deals with complex exchange of membranes that occurs inside a cell. Protein, lipids and other molecules travel among intracellular organelles, are delivered to or transferred from the cell surface by virtue of membranous carriers known as "transport intermediates". These carriers have distinct shapes and sizes; and their biogenesis, mode of transport and delivery to the final destination are monitored by a multitude of very intricate molecular mechanisms. The concept that every membrane pathway does not represent a close system, but is fully integrated with all the other trafficking pathways has emerged in past few years. This book intends to present a general overview of the degree of this crosstalk.



Tom Lee

ISBN
978-1-63239-517-7

\$90.00 US

2015

Book Size
6"x9"

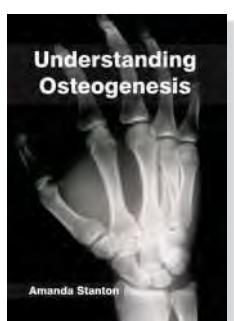
Molecular Biology

185pp.
Colored

Hardback

Procedures and Applications of DNA Sequencing

Scientists around the world have been researching to understand the details of DNA. This book presents techniques of DNA sequencing and its function in plant, mammal and medical sciences. It includes certain chapters dedicated to DNA sequencing techniques and then it focuses on diverse functions of this technology. Several renowned experts have contributed to this book. It is intended to serve as an important resource to students and experts interested in gaining more knowledge regarding DNA sequencing.



Amanda Stanton

ISBN
978-1-63239-601-3

\$140.00 US

2015

Book Size
6"x9"

Molecular Biology

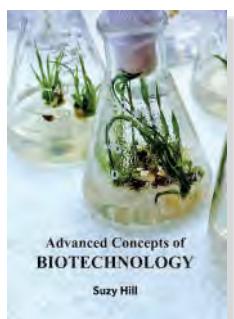
308pp.
Colored

Hardback

Understanding Osteogenesis

Osteogenesis is a widely used procedure for treating skeletal deformation. This book presents a comprehensive summary of the latest information regarding osteogenesis. It also discusses certain deadly disorders related to it, along with vascularization and mechanical stimulus. Cell biology, transcriptional regulators and scaffolds have been briefly analyzed in this book by experts. This book intends to provide practical researches dealing with osteogenesis to our readers. Data provided in this book will help both students and experts in comprehending the above stated topic better.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Suzy Hill

ISBN
978-1-63239-016-5

\$120.00 US

2015

Book Size
6"x9"

267pp.
Colored

Hardback

Biotechnology

Advanced Concepts of Biotechnology

This book presents a reliable crystallization of some of the developing biomedical research topics and developments in the field of biotechnology. It puts together promising fundamental research topics on plant and biomedical technologies. It also enables the reader to understand the role of biotechnology in society, answering obvious questions pertaining to biotech procedure and principles in the context of research advances. In an age of multidisciplinary cooperation, the book serves as an outstanding in-depth text for a wide variety of readers ranging from experts to students.



Joy Adam

ISBN
978-1-63239-022-6

\$150.00 US

2015

Book Size
8.5"x11"

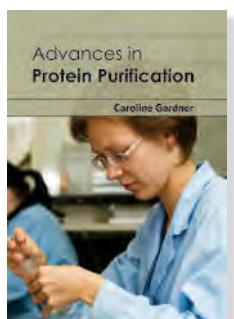
219pp.
Colored

Hardback

Biotechnology

Advanced Research in Biotechnology

This book discusses biotechnology from its core: How the cellular and biomolecular processes are being harnessed and used for a wide number of applications and how it is useful for the humankind. The book comprehensively explains the latest researches and experiments in the field and provides a good understanding of the current scenario of this particular discipline. It informs the readers about the latest developments by a number of studies and elucidates the future opportunities of biotechnology.



Caroline Gardner

ISBN
978-1-63239-054-7

\$110.00 US

2015

Book Size
6"x9"

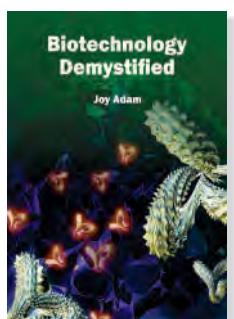
235pp.
Colored

Hardback

Biotechnology

Advances in Protein Purification

This book provides an in-depth knowledge of protein purification. The book is designed and written to expedite speedy access to important information regarding protein purification and its various methodologies. It intends to present a summary on the latest methods for the purification, examination and quantification of proteins in composite samples utilizing various enrichment techniques.



Joy Adam

ISBN
978-1-63239-104-9

\$150.00 US

2015

Book Size
8.5"x11"

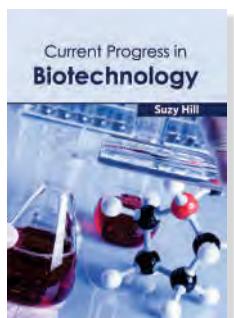
204pp.
Colored

Hardback

Biotechnology

Biotechnology Demystified

Biotechnology has constantly been evolving for over decades. It has given rise to many scientific concepts and discoveries. This book attempts to understand the latest concepts and theories that fall under the field of biotechnology and how such studies can be useful in our lives. The various researches that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail here. Those in search of information to further their knowledge of this field will be greatly assisted by this book.



Suzy Hill

ISBN
978-1-63239-140-7

\$90.00 US

2015

Book Size
6"x9"

220pp.
Colored

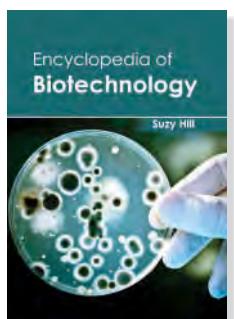
Hardback

Biotechnology

Current Progress in Biotechnology

This book is a concise and sophisticated introduction to innovations in biotechnology. It presents cutting edge research topics in microbial and animal biotechnology. It also enables the reader to understand the role of biotechnology in society, answering obvious questions pertaining to biotech procedure and principles in the context of research advances. In an age of multidisciplinary cooperation, the book serves as an outstanding in-depth text for a wide variety of readers ranging from experts to students.

Biochemistry, Genetics, Biotechnology and Molecular Biology



Suzy Hill

ISBN
978-1-63239-216-9

\$120.00 US

2015

Book Size
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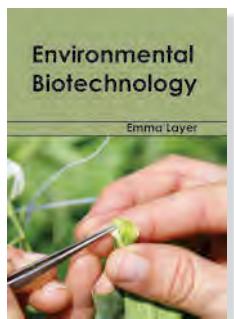
289pp.
Colored

Hardback

Biotechnology

Encyclopedia of Biotechnology

A variety of information regarding the field of biotechnology is presented in this book. Biotechnology is the scientific field of researching the most resourceful techniques to get helpful products for human society by using practical micro-organisms, tissues of plants or animals. It is very significant to make the precise distinction between biotechnology as a separate science of getting precious products from cells or tissues of viable organisms, and any other applications of bioprocesses that are based on using the whole living plants or animals. The book is a compilation of current advances of selected studies that are ongoing in certain biotechnological applications.



Emma Layer

ISBN
978-1-63239-310-4

\$140.00 US

2015

Book Size
6"x9"

309pp.
Colored

Hardback

Biotechnology

Environmental Biotechnology

Descriptive information regarding the field of environmental biotechnology has been provided in this book. Considering the importance of studying and applying the biological methods to redeem or mitigate the harmful effects of global pollution on the natural environment, as direct consequences of quantitative expansion and qualitative diversification of persistent and hazardous pollutants, the present book provides useful information regarding latest approaches and prospective applications in environmental biotechnology. This book covers important aspects of environmental biotechnology. It provides comprehensive information deeming scientific experiments that were carried out in different parts of the world to test different procedures and methods designed to remove or mitigate the impact of hazardous pollutants on environment.



Joy Adam

ISBN
978-1-63239-320-3

\$150.00 US

2015

Book Size
8.5"x11"

222pp.
Colored

Hardback

Biotechnology

Essential Topics in Biotechnology: Volume I

This book is an effort to bring out a complete picture of biotechnology, which has had an accelerated growth in the last couple of centuries. The book has tried to capture its origins in history, explain the headways it made from mid-19th century till now, and the immense possibilities the subject holds out for tomorrow in science, employment, commerce, and industry. It follows a comprehensible approach through visuals and easy flow of content, which will benefit students and experts alike.



Joy Adam

ISBN
978-1-63239-321-0

\$150.00 US

2015

Book Size
8.5"x11"

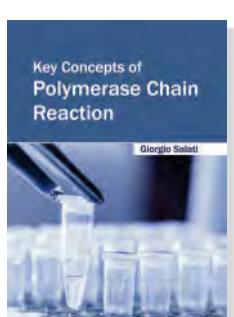
221pp.
Colored

Hardback

Biotechnology

Essential Topics in Biotechnology: Volume II

This book is an effort to bring out a complete picture of biotechnology, which has had an accelerated growth in the last couple of centuries. The book has tried to capture its origins in history, explain the headways it made from mid-19th century till now, and the immense possibilities the subject holds out for tomorrow in science, employment, commerce, and industry. It follows a comprehensible approach through visuals and easy flow of content, which will benefit students and experts alike.



Giorgio Salati

ISBN
978-1-63239-440-8

\$120.00 US

2015

Book Size
6"x9"

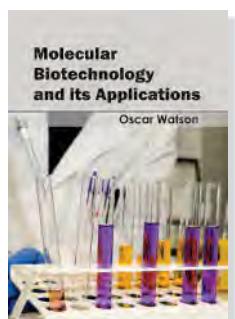
214pp.
Colored

Hardback

Biotechnology

Key Concepts of Polymerase Chain Reaction

The primary objective of this book is to illustrate recent concepts in molecular biology with focus on the application to human, animal and plant pathology, in numerous aspects like analysis, prevention and treatment of diseases, prognosis, etiology and use of these methodologies in comprehending the pathophysiology of several diseases that impact living beings. The topics included are measuring DNA damage; overview of PCR principles; submicroscopic human parasitic infection and real time PCR techniques in cancer investigations. This book will be beneficial for researchers, students and professionals engaged in the field.



Biotechnology

Oscar Watson	ISBN 978-1-63239-467-5	\$110.00 US	2015	Book Size 6"x9"	250pp. Colored	Hardback
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Molecular Biotechnology and its Applications

This book focuses on the significance of biology at the molecular level as a means of biotechnology for advancement in human life conditions. One of the engaging issues in this field is the identification of organisms producing bioactive secondary metabolites. This book also includes how to structure a plan for use and the preservation of species depicting a potential source for new drug development, particularly those acquired from bacteria. The book also presents new uses of biotechnology like the therapeutic applications of electroporation; enhancing value, microbial safety of fresh-cut vegetables; production of synthetic PEG hydro gels which can be used as an additional cellular matrix mimic for tissue engineering applications, and other innovative uses.

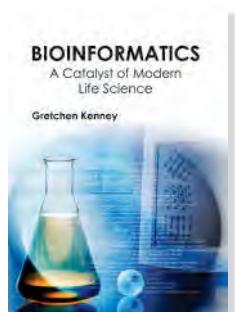


Biotechnology

Giorgio Salati	ISBN 978-1-63239-516-0	\$140.00 US	2015	Book Size 6"x9"	377pp. Colored	Hardback
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Polymerase Chain Reaction

The aim of this book is to present recent concepts in molecular biology with focus on the application to human, animal and plant pathology, in numerous aspects like diagnosis, prevention and treatment of diseases, prognosis, etiology and use of these methodologies in comprehending the pathophysiology of several diseases that impact living beings. Some of the topics covered are PCR-types; limitations and utilities; PCR in food analysis; gene expression analysis and combinatory qPCR technology. This book will broaden the knowledge in molecular biology and will be useful for students, researchers and professionals.



Bioinformatics

Gretchen Kenney	ISBN 978-1-63239-096-7	\$140.00 US	2015	Book Size 6"x9"	338pp. Colored	Hardback
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Bioinformatics: A Catalyst of Modern Life Science

Bioinformatics has been described as a catalyst of modern life science in this book. It is a collection of numerous research works on bioinformatics and related disciplines including high-performance computing, data analysis, networking and molecular modeling. The book discusses various bioinformatics fundamentals and applications which makes it a comprehensive account of information for both students and experts.



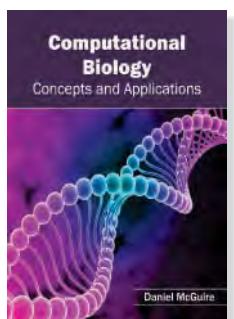
Bioinformatics

Gretchen Kenney	ISBN 978-1-63239-097-4	\$90.00 US	2015	Book Size 6"x9"	188pp. Colored	Hardback
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Bioinformatics: Advanced Topics

The science of compiling and studying complex biological data, such as genetic codes, is referred to as bioinformatics. This book extensively covers topics related to bioinformatics. It includes a wide variety of topics such as unraveling genetic determinants of complex disorders, functional characterization of inherently unfolded proteins/regions and database resources for protein allergens. It also elaborates topics like protein interaction networks, flexible protein-protein docking and classification and prediction of regulatory motifs. There has also been emphasis on computational means for determining best classifiers and key disease genes in large-scale transcriptomic and proteomic experiments. Computational algorithms have been explained in an easy-to-grasp manner for graduate and undergraduate students apart from researchers studying molecular biology and genetics. The book aims to assist biostatisticians, computational scientists and mathematicians in their academic and research activities in the field of bioinformatics.

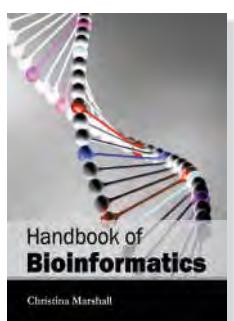
Biochemistry, Genetics, Biotechnology and Molecular Biology



Daniel McGuire | ISBN 978-1-63239-118-6 | \$150.00 US | 2015 | Book Size 8.5"x11" | 215pp. Colored | Hardback

Computational Biology: Concepts and Applications

This book is a meticulous study of computational biology in its most advanced form. The writers and researchers have put in years of efforts before presenting their observations, arguments and resulting conclusions. Their determination to offer the society various methodologies by combining best of mathematics and biology has resulted in discovering many unthinkable theories and processes. This book aims to serve as a resource guide in the discipline of computational biology.



Christina Marshall | ISBN 978-1-63239-373-9 | \$150.00 US | 2015 | Book Size 8.5"x11" | 209pp. Colored | Hardback

Handbook of Bioinformatics

Bioinformatics has multiple applications in varied fields of science and technology. This book attempts to understand the intricacies of bioinformatics and how such research is relevant to our lives. The various projects that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail here. Those in search of information to further their knowledge of this field will be greatly assisted by this book.



Christina Marshall | ISBN 978-1-63239-445-3 | \$150.00 US | 2015 | Book Size 8.5"x11" | 215pp. Colored | Hardback

Latest Research in Bioinformatics: Volume I

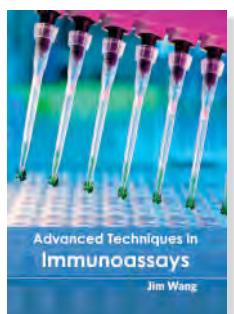
This book is dedicated to the progress of bioinformatics. It discusses the various concepts, algorithms, modes and modules for collaborating information for a comprehensive usage. The book strikes a unique balance between mathematical computing techniques and the theoretical information. These interesting and diverse topics offer an insight into the real world of bioinformatics. This book is an advantage text for all researching or studying the discipline of bioinformatics.



Christina Marshall | ISBN 978-1-63239-446-0 | \$150.00 US | 2015 | Book Size 8.5"x11" | 216pp. Colored | Hardback

Latest Research in Bioinformatics: Volume II

This book is dedicated to the progress of bioinformatics. It discusses the various concepts, algorithms, modes and modules for collaborating information for a comprehensive usage. The book strikes a unique balance between mathematical computing techniques and the theoretical information. These interesting and diverse topics offer an insight into the real world of bioinformatics. This book is an advantage text for all researching or studying the discipline of bioinformatics.



Jim Wang

ISBN
978-1-63239-031-8

\$90.00 US

2015

Book Size
6"x9"

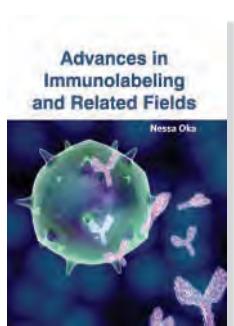
Immunology & Microbiology

191pp.
Colored

Hardback

Advanced Techniques in Immunoassays

Immunoassays are introduced in this book in a very sophisticated and concise manner. From the elementary in vitro analysis of a particular biomolecule to the diagnosis or prognosis of a particular disease, one of the most broadly practiced technologies is immunoassays. With the help of a particular antibody to identify the biomolecule of interest, comparatively high specificity can be attained by immunoassays, so that complex biofluids (e.g. serum, urine, etc.) can be examined directly. Along with the binding specificity, the other essential characteristics of immunoassays are relatively high sensitivity for the detection of antibody-antigen complexes, and a broad dynamic spectrum for quantitation. This book targets some of the recent technologies for the advancement of new immunoassays which, over the past decade, have continued to grow aggressively in their advancement and applications.



Nessa Oka

ISBN
978-1-63239-046-2

\$150.00 US

2015

Book Size
6"x9"

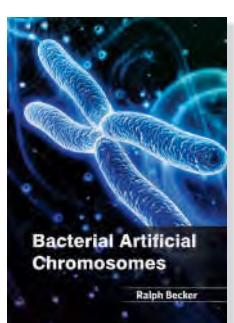
Immunology & Microbiology

375pp.
Colored

Hardback

Advances in Immunolabeling and Related Fields

Immunolabeling has emerged as a useful technique in pharmacology, biochemistry and other fields of science and technology. This book provides specialized data regarding diverse trends of immunoassay and associated methods. This book deals with immunolabeling techniques utilized in a variety of areas of research. It also includes papers which introduce some immunolabeling methods which are of crucial importance such as utilization of conjugates of certain kind of proteins. Furthermore, it explains the usage of bead-based assays and provides a summary on laboratory assay organizations. The book presents technical improvements that are intended to provide a resourceful channel for expansions in immunolabeling methods. This book intends to provide useful data to all its readers dealing with the above stated topic.



Ralph Becker

ISBN
978-1-63239-084-4

\$80.00 US

2015

Book Size
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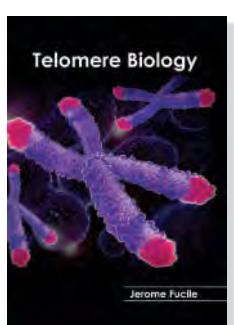
Immunology & Microbiology

148pp.
Colored

Hardback

Bacterial Artificial Chromosomes

This book gives emphasis to the various applications of Bacterial Artificial Chromosomes (BACs) in various studies. The topics presented are - using BAC libraries as assets for the mapping of marsupial and monotreme gene and for comparative genomic studies, and the usage of BACs as vehicles for maintaining the large infectious DNA genomes of viruses. The huge size of the insert DNA in the BACs and the ease with which engineering mutations in that DNA within the bacterial host can be achieved, allowed the manipulation of the BAC-viral DNA of Varicella-Zoster Virus. Some other issues that are discussed in the book are the maintenance and suitable expression of foreign genes from a Baculovirus genome; creation of multi-purpose clones of the same in the host of the new *Bacillus subtilis* etc. Furthermore, it caters to the use of the above to address important issues of gene regulation in vertebrates, such as functionally identifying novel cis-acting distal gene regulatory sequences.



Jerome Fucile

ISBN
978-1-63239-592-4

\$140.00 US

2015

Book Size
6"x9"

Immunology & Microbiology

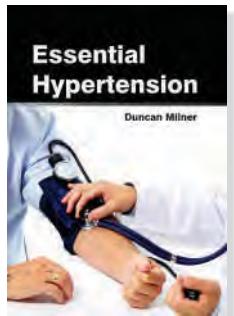
305pp.
Colored

Hardback

Telomere Biology

This book extensively discusses the biology of telomere with the help of advanced information. Developments in telomere researches have provided an interrelation of telomere dysfunction with cellular aging and several age-related human diseases. Some new findings and studies have further widened our knowledge of telomere functions, where telomeres have been demonstrated to be essential for microbial pathogen virulence and telomere proteins have significant non-telomeric cellular functions. This book presents current opinions on selected areas of telomere research and their implication, in the hope of benefitting interested individuals in their future studies and enhancing their research progress.

Medicine



Duncan Milner

ISBN
978-1-63239-319-7

\$110.00 US

2015

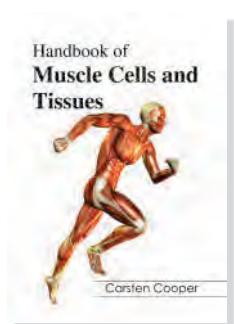
Book Size
6"x9"

248pp.
Colored

Hardback

Essential Hypertension

This book deals with the field of hypertension study. The book offers a broad overview comprising the intricate aspects of the subject. It details the modern developments in genetics and pathophysiology of hypertension, specially the genetic determinants of hypertension and function of gene variants in response to anti-hypertensive treatment. It thoroughly analyzes mitochondrial alterations in vital hypertension and left ventricular hypertrophy. The book explains the universal gene appearance in hypertension. Furthermore, it presents the latest research on pathophysiology of defiant hypertension. Several other topics such as treating organ injuries and the purpose of music therapy in essential hypertension are explained in this book.



Carsten Cooper

ISBN
978-1-63239-405-7

\$150.00 US

2015

Book Size
6"x9"

406pp.
Colored

Hardback

Handbook of Muscle Cells and Tissues

An elucidative account based on muscle cells and tissues has been presented to the readers in this book. It deals with basic aspects of contractile mechanism in skeletal and smooth muscle cells and also the function of melanocytes, which possess many properties common to those of smooth muscles. It also covers pathological aspects of cardiac and smooth muscle cell functions along with dealing with factors influencing structure and function of cardiac and smooth muscle cells and tissues. The content of this book is thought-provoking and informative for readers interested in basic, pathological and clinical aspects of muscle cells and tissues.



Hank Loris

ISBN
978-1-63239-508-5

\$150.00 US

2015

Book Size
6"x9"

371pp.
Colored

Hardback

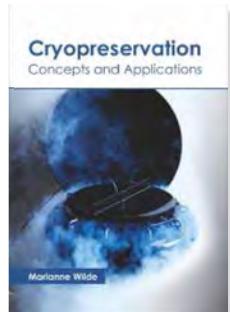
Patch Clamp Technique

This book is a leverage in understanding patch clamp technique. This book is a compilation of researches related to patch clamp technique accomplished by experts around the globe. It is basically an electrophysiological method for calculating the electric current created by a living cell. This innovative method was discovered by two professionals of Germany - Erwin Neher and Bert Sakmann. They were honored with the prestigious Nobel Prize in 1991 for their contribution to Medicine. It is even used for calculating the drug result against a sequence of diseases, and to find out the mechanism of disorders in animals and plants. It is also applied in getting the structure function actions of compounds and drugs; and major pharmaceutical firms use this method in clinical trials of their medicines. In simple words, this book deals with the theory of endogenous mechanisms of cells and its practical functions. It presents the fundamental principles and developing varieties, as well as deals with the most recent advancements in the established patch clamp method. This book intends to help students and experts in gaining more knowledge regarding this innovative technique.

Neurophysiology

Biological Sciences

Biological Engineering



Marianne Wilde

ISBN

978-1-63239-807-9

\$145.00 US

2017

Book Size

8.5"×11"

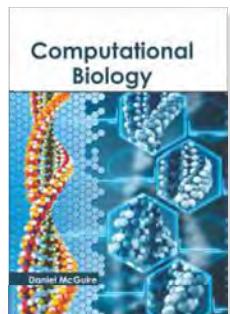
250pp.
Colored

Hardback

Cryopreservation: Concepts and Applications

Cryopreservation is an emerging field of study. It aims at preserving biological constructs such as cells, organs, etc. through extreme cooling. This preservation is performed to conserve them from damage. This book traces the progress of this field and highlights some of its key concepts and applications of cryopreservation. It also aims to provide its readers the risks of cryopreservation and the measures to combat the risks involved. The various studies that are consistently towards advancing technologies and evolution of this field are examined in detail. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts. The objective of this book is to give a general view of the different areas of cryopreservation and its applications.

Computational Biology



Daniel McGuire

ISBN

978-1-63239-806-2

\$145.00 US

2017

Book Size

8.5"×11"

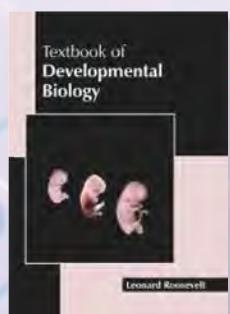
249pp.
Colored

Hardback

Computational Biology

In order to study the biological, behavioral and the social systems, the development and application of data analytical and theoretical methods of mathematics modeling and computational simulations are used. This field of study is called computational biology. It is considered to be an important element for analyzing informatics processes of various biological systems. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of computational biology. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It aims to provide an elaborate understanding of the field. Those in search of information to further their knowledge will be greatly assisted by this book. It will serve as a resource guide for researchers, experts, academicians and students engaged in the field of computational biology at various levels.

Developmental Biology



Leonard Roosevelt

ISBN

978-1-63239-810-9

\$140.00 US

2017

Book Size

8.5"×11"

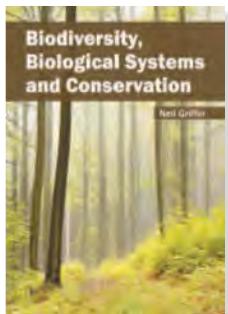
238pp.
Colored

Hardback

Textbook of Developmental Biology

Developmental biology refers to study of the growth and development of plants and animals. The main aim of developmental biology is to examine embryonic development of animals and to differentiate stem cells in organisms. Along with these, it also incorporates a detailed study of regeneration and metamorphosis. This book traces the progress of this field and highlights some of its key concepts and applications. It will also provide interesting topics for research which readers can take up. For all readers who are interested in this area of study, the case studies included in this text will serve as excellent guide to develop a comprehensive understanding. This book is a valuable compilation of topics, varying from the basic to the most complex advancement in the field of developmental biology. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

Biological Sciences



Biodiversity

Neil Griffin	ISBN 978-1-63239-733-1	\$132.00 US	2016	Book Size 8.5"x11"	212pp. Colored	Hardback
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Biodiversity, Biological Systems and Conservation

Biodiversity is the variety and variability of life forms present in different geographical regions. It is a result of different climatic patterns and geographic settings. Biological systems may range from micro to macro that is they can exist in a form as small as mitochondria and as big as rainforests. Conservation aims at protecting habitats, ecosystems and species to maintain ecological balance. This book strives to provide extensive information on abundance, diversity and distribution of genes, species and ecosystems, components of biodiversity and effect of disturbance on ecosystems, species and populations, etc. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of this field. Those in search of information to further their knowledge will be greatly assisted by this book. It will serve as an essential guide for environmentalists, ecologists, conservationists, biologists, researchers and students alike.

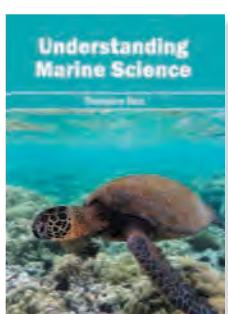


Marine Biology

Theodore Roa	ISBN 978-1-63239-665-5	\$150.00 US	2016	Book Size 8.5"x11"	277pp. Colored	Hardback
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Marine Science

Marine science studies the fauna and flora present in water bodies and their interaction with others. It includes marine and coastal management, oceanography, marine biology and marine ecology. This book discusses a wide array of topics in the light of new information and findings conducted by experts across the world. Marine resources, marine chemistry, marine environment, marine biotechnology, etc. are some of the important topics explained in it. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of marine science. It is a complete source of knowledge on the present status of this important field. It is a ripe text for marine biologists, ecologists, professionals, researchers and students involved with the study of marine science at various levels.

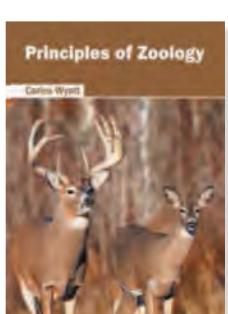


Marine Biology

Theodore Roa	ISBN 978-1-63239-637-2	\$145.00 US	2016	Book Size 8.5"x11"	248pp. Colored	Hardback
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Understanding Marine Science

This is a research-focused book which presents theoretical and scientific studies in the field of marine science. It contains many exclusive researches contributed by eminent authors from all parts of the world. Marine science deals with the detailed study of the ocean, its ecosystems, and its life forms, as well as the study of coastal environments, oceanic currents, and the sea floor. Marine science is the amalgamation of marine biology, marine chemistry, marine geology, marine pollution, and physical oceanography. This book highlights the interdisciplinary nature of marine science, and covers a wide range of topics and is a quick and easy reference to a multitude of topics related to this subject. The extensive content of this book will provide the readers with a thorough understanding of the subject. Students, researchers, experts and all associated with marine science will benefit alike from this book.



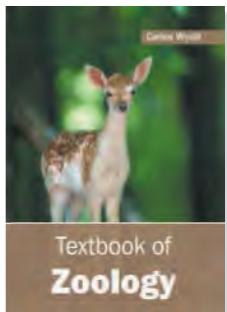
Zoology

Carlos Wyatt	ISBN 978-1-63239-694-5	\$155.00 US	2016	Book Size 8.5"x11"	295pp. Colored	Hardback
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Principles of Zoology

Zoology refers to that branch of biology which deals with the study of animals. It incorporates the study of the structure, embryology, evolution, classification, habits and distribution of all species of animals. It also examines their relationship with the environment. This book traces the progress of this field and highlights some of its key discoveries. It talks in detail about the new concepts and innovations related to zoology. The topics included in it are of utmost significance and bound to provide incredible insights about all the different branches of zoology for example, zoography, animal physiology, behavioural ecology, etc. This book will prove to be a beneficial source of information for zoologists, geneticists, ecologists, professionals, students and researchers associated with the field of zoology.

Biological Sciences



Carlos Wyatt

ISBN
978-1-63239-701-0

\$155.00 US

2016

Book Size
8.5"x11"

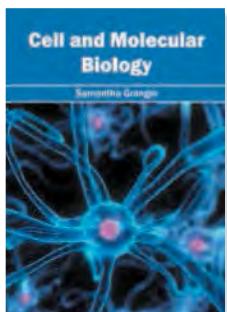
297pp.
Colored

Zoology

Hardback

Textbook of Zoology

This book discusses the fundamentals as well as modern approaches of zoology. It delves into the embryology, evolution, habits and distribution of all animals of this planet. It classifies and analyses animals on the bases of physiology, ethology, biogeography, etc. Zoology has many branches such as comparative anatomy, animal physiology, behavioural ecology, etc. This book will provide comprehensive insights into the field of zoology. It will discuss in detail the new methodologies and evaluations related to this subject. Those in search of information to further their knowledge will be greatly assisted by this book. It is a collective contribution of a renowned group of international experts. It will serve as a valuable source of reference to graduate and post-graduate students as well as zoologists, researchers and professionals associated with zoology.



Samantha Granger

ISBN
978-1-63239-750-8

\$150.00 US

2016

Book Size
8.5"x11"

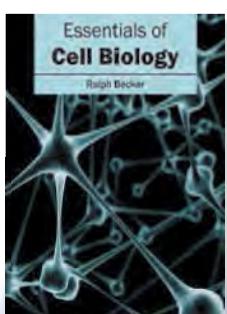
264pp.
Colored

Cell Biology

Hardback

Cell and Molecular Biology

Cell is the fundamental building block of all the existing life forms. Conducting studies related to cells and its various functions and activities are crucial for understanding all the essential life sustaining processes. Cell biology tries to explain the structure, physiological properties, metabolic processes, signaling pathways and life cycles, and other processes of the cells. Molecular biology studies the interaction of biomolecules with different systems of the cell including proteins, DNA, RNA and their synthesis. It is a sub-field of cell biology. This book traces the progress of this field and highlights some of its key concepts and applications. The topics covered in this extensive book deal with the core topics related this area of study. It unfolds the innovative aspects of cell biology which will be crucial for the progress of this field in the future. It aims to assist cell biologists, molecular biologists, researchers and students associated with this field.



Ralph Becker

ISBN
978-1-63239-719-5

\$155.00 US

2016

Book Size
8.5"x11"

301pp.
Colored

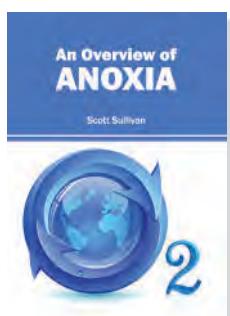
Cell Biology

Hardback

Essentials of Cell Biology

Cell biology is based on the concept that cell is the fundamental unit of life. It is a branch of science which gives detailed information about the structure, properties, metabolic processes, life cycle, signalling pathways and interactions of the cell with the surrounding environment. Cell biology is closely associated with diverse fields such as genetics, molecular biology, immunology, biochemistry, and developmental biology. Cell research work is radical for all biological sciences, for example, biomedical fields such as cancer and other diseases. This book is a detailed and comprehensive medium helping readers to better understand the fundamentals and advances made in this field. It will serve as a great resource for the scientists and professionals working in this domain. It will also prove beneficial for students as it comprises the latest researches in the field.

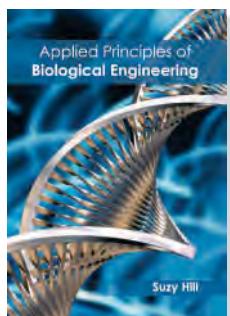
Biological Sciences



Biological Sciences					
Scott Sullivan	ISBN 978-1-63239-068-4	\$90.00 US	2015	Book Size 6"x9"	157pp. Colored Hardback

An Overview of Anoxia

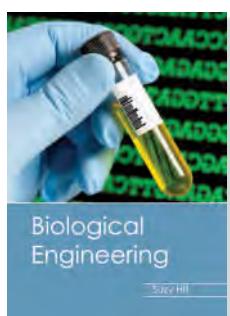
Extreme levels of hypoxia (lack of oxygen) are referred to as anoxia. This book analyzes how chronic oxygen deprivation influences biological systems - from the molecular to the ecological level - through the contributions from authors from diverse regions of the world, which shows the concern in the academic analysis of oxygen deprivation. Throughout the book, the variety in the experimental approach scientists take, for understanding the impact oxygen deprivation has on living systems has been presented using diverse ideas. For instance, one of these ideas deals with the exploration and analysis of the physiological, cellular and genetic features of killifish embryos and nematodes exposed to anoxia. The book also comprises of content on the mechanisms managing hypoxia and anoxia tolerance and their implications on human health issues along with new methodologies to analyze oxygen deprivation and the effect of human-related activities on oxygen level, within essential ecological systems such as Lake Victoria, since the oxygen molecule is undoubtedly, central to every stratum of biological systems.



Biological Engineering					
Suzy Hill	ISBN 978-1-63239-079-0	\$160.00 US	2015	Book Size 6"x9"	405pp. Colored Hardback

Applied Principles of Biological Engineering

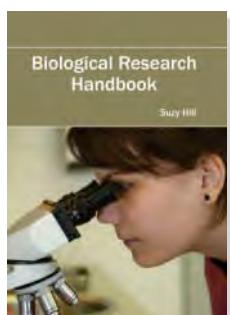
Biological engineering is a field of engineering in which life and life-sustaining systems are highlighted and is a looming discipline that circumscribes engineering theory and practice linked to and derived from the science of biology. The most significant trend in biological engineering is the dynamic advancement at which biotechnology is now able to integrate with biological processes and an explosion in micro/nanoscale technology is permitting the manufacture of nanoparticles for drug delivery into cells, miniaturized implantable microsensors for medical diagnostics, and micro-engineered robots for on-board tissue repairs. This book intends to offer an updated sketch of the latest advances in biological engineering from varied aspects and several applications in clinical and experimental research grouped under two sections: Computational Methods in Bioengineering, and Biomechanical Engineering Methods and Applications.



Biological Engineering					
Suzy Hill	ISBN 978-1-63239-099-8	\$120.00 US	2015	Book Size 6"x9"	284pp. Colored Hardback

Biological Engineering

Biological engineering is a field of engineering in which life and life-sustaining systems are highlighted. The most significant trend in biological engineering is the dynamic advancement at which biotechnology is now able to integrate with biological processes and an explosion in micro/nanoscale technology is permitting the manufacture of nanoparticles for drug delivery into cells, miniaturized implantable microsensors for medical diagnostics, and micro-engineered robots for on-board tissue repairs. This book intends to offer an updated sketch of the latest advances in biological engineering from varied aspects and several applications grouped under two sections: Biochemical Engineering Methods and Applications, and E-Health and Educational Aspects of Bioengineering.

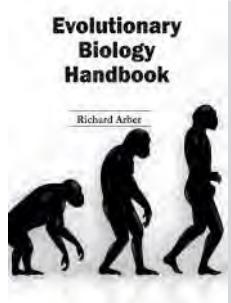


Biological Engineering					
Suzy Hill	ISBN 978-1-63239-100-1	\$150.00 US	2015	Book Size 6"x9"	390pp. Colored Hardback

Biological Research Handbook

This book presents some new ideas regarding key issues from various areas of biological sciences. Some issues discussed within the book are antibiotic susceptibility, genomic restructuring, historical biogeography, biogeographic patterns, endemism, and the utility of microorganisms for pest regulation. This book consists of original researches by prominent experts in their various fields. This book has been created with the idea of stimulating and challenging its readers regarding the field of biological research.

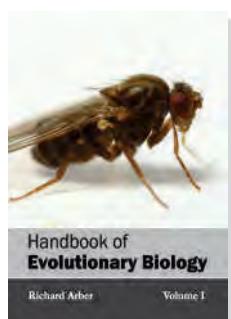
Biological Sciences



Richard Arber	ISBN 978-1-63239-334-0	\$150.00 US	2015	Book Size 8.5"x11"	214pp. Colored	Hardback
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Evolutionary Biology Handbook

Evolutionary biology is a multi-disciplinary subject, where every question and curiosity leads to diversified study. Therefore, it won't be wrong to say that in times to come, through evolutionary biology; much more will be known about our past, present, and future. This is a multi-disciplinary subject that requires detailed attention in every branch of study. This book strives to do the same and helps the reader in grasping every element of the content. Special regard has been given to lucid flow of topics, comprehensible language, and frequent use of diagrams, figures, and examples for better understanding.



Richard Arber	ISBN 978-1-63239-393-7	\$150.00 US	2015	Book Size 8.5"x11"	211pp. Colored	Hardback
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Handbook of Evolutionary Biology: Volume I

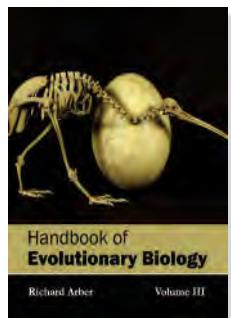
Evolutionary biology is concerned with the emergence and subsequent evolution of life of multiple species on earth, and the resultant diversity. It includes the study of the descent of species as well as the emergence of new species. This book studies the advances made in the field and includes the latest data that has surfaced over the past decades. Since evolutionary biology is an upcoming field of study, this book will be of great help to anyone who is professionally or academically involved in this field of science.



Richard Arber	ISBN 978-1-63239-394-4	\$150.00 US	2015	Book Size 8.5"x11"	211pp. Colored	Hardback
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Handbook of Evolutionary Biology: Volume II

Evolutionary biology is concerned with the emergence and subsequent evolution of life of multiple species on earth, and the resultant diversity. It includes the study of the descent of species as well as the emergence of new species. This book studies the advances made in the field and includes the latest data that has surfaced over the past decades. Since evolutionary biology is an upcoming field of study, this book will be of great help to anyone who is professionally or academically involved in this field of science.

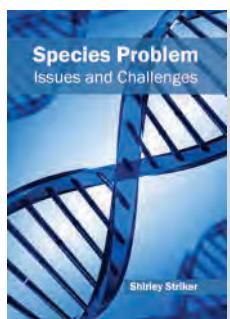


Richard Arber	ISBN 978-1-63239-395-1	\$150.00 US	2015	Book Size 8.5"x11"	215pp. Colored	Hardback
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Handbook of Evolutionary Biology: Volume III

Evolutionary biology is concerned with the emergence and subsequent evolution of life of multiple species on earth, and the resultant diversity. It includes the study of the descent of species as well as the emergence of new species. This book studies the advances made in the field and includes the latest data that has surfaced over the past decades. Since evolutionary biology is an upcoming field of study, this book will be of great help to anyone who is professionally or academically involved in this field of science.

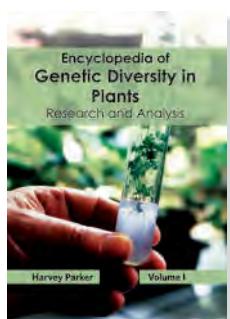
Biological Sciences



Shirley Striker	ISBN 978-1-63239-574-0	\$120.00 US	2015	Book Size 6"x9"	284pp. Colored	Evolutionary Biology Hardback
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Species Problem: Issues and Challenges

An elucidative account regarding the topic of species problem and certain issues as well as challenges related to it have been provided in this book. It is a compilation of theoretical research works regarding the species problem, which is among the most elementary issues in biology. The primary topics covered in this book are: evolutionary emergence of the species as an individual unit of a specific level of generality; consideration of the species problem from the point of view of modern non-conventional science paradigm, with stress on its conceptual status presuming its characterization in the boundaries of specific conceptual framework; a review of the concept of biological species on the basis of the "friend-foe" identification system; considerations of the concepts of phylogenomics and evolution of species as candidates for the universal one; species delimitation approach employing multi-locus coalescent-based technique; epistemological view of the species as a specific explanatory hypotheses; review of species concept proposed by Darwin.

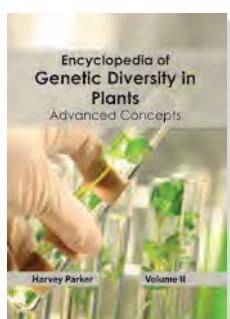


Harvey Parker	ISBN 978-1-63239-252-7	\$140.00 US	2015	Book Size 6"x9"	322pp. Colored	Biodiversity Hardback
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Encyclopedia of Genetic Diversity in Plants: Research and Analysis

Volume I

Analysis of genetic diversity in plants on the basis of research-focused information has been elucidated in this book. Genetic diversity is of central importance to the continuity of a species as it presents with the required adaptation to the current biotic and abiotic ecological circumstances, and enables modifications in the genetic composition to cope with changes in the environment. This book discusses the extent of genetic variation present in plant populations. The rising accessibility of PCR-based molecular markers provides some significant data and also the detection of genes influencing economically significant characteristics. The motive of the book is to present a glance into the dynamic procedure of genetic variation by presenting the views of experts who are involved in the creation of fresh ideas and methods employed for the assessment of genetic diversity, often from various viewpoints. The book should be helpful to students, researchers and experts in the field of conservational biology and molecular biology.

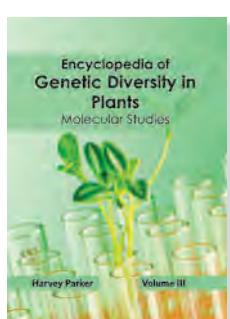


Harvey Parker	ISBN 978-1-63239-253-4	\$90.00 US	2015	Book Size 6"x9"	201pp. Colored	Biodiversity Hardback
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Encyclopedia of Genetic Diversity in Plants: Advanced Concepts

Volume II

An examination of genetic diversity in plants on the basis of research-focused information has been described in this book. Genetic diversity is of central importance to the continuity of a species as it presents with the required adaptation to the current biotic and abiotic ecological circumstances, and enables modifications in the genetic composition to cope with changes in the environment. This book discusses the extent of genetic variation present in plant populations and conservation of germplasm. The motive of the book is to present the views of experts who are involved in the creation of fresh ideas and methods employed for the assessment of genetic diversity, often from various viewpoints. The book will be helpful to students, researchers and experts in the field.



Harvey Parker	ISBN 978-1-63239-254-1	\$150.00 US	2015	Book Size 6"x9"	387pp. Colored	Biodiversity Hardback
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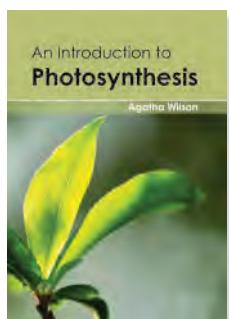
Encyclopedia of Genetic Diversity in Plants: Molecular Studies

Volume III

The molecular studies in the field of genetic diversity in plants are discussed in this all-inclusive book. It provides information that examines the magnitude of genetic variations in plant populations. There is significant genetic variability in natural populations which accounts for a genomic flexibility that can be employed as a raw material for adaptation to altering environmental conditions. The evaluation of genetic diversity reflects information regarding allelic variation at a particular locus. The escalating availability of PCR-based molecular markers enables the descriptive analyses and assessment of genetic diversity in plants as well as the detection of genes influencing economically vital traits. The aim of this book is to provide an overview of the dynamic procedure of genetic variation with a presentation of views of scientists who are working on generation of novel methods and ideas used for the evaluation of genetic diversity, often from distinct perspectives. It aims at serving as a valuable reference for researchers, students and veterans in the field of genetic diversity, conservation and molecular biology.

Biological Sciences

Botany



Agatha Wilson

ISBN
978-1-63239-067-7

\$120.00 US

2015

Book Size
6"x9"

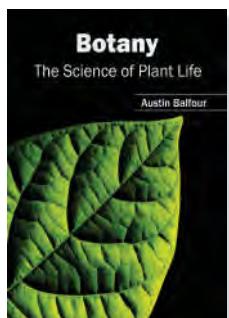
268pp.
Colored

Hardback

An Introduction to Photosynthesis

The most basic and significant aspect of life process on earth is linked to the process of photosynthesis. Photosynthesis is the most researched field amongst the scientific community. The present book examines the fundamentals of photosynthesis, and its impact on different life forms. The book contains important sections analyzing light and photosynthesis, the importance of carbon in photosynthesis, and discusses other significant topics related to the process of photosynthesis. The chapters are well-structured and are contributed by experts in the field. The readers will gain ample knowledge from the new findings documented in the book.

Botany



Austin Balfour

ISBN
978-1-63239-105-6

\$150.00 US

2015

Book Size
8.5"x11"

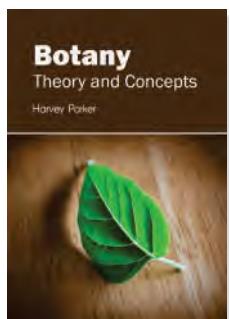
197pp.
Colored

Hardback

Botany: The Science of Plant Life

This book focuses on the practice of modern botany. It includes various topics such as evolutionary biology and molecular genetics to better understand the advancements in the field of botany. And most importantly, the book looks at the application of botany to help deal with various environmental issues and help in the fields of agriculture, forestry, water conservation and maintenance of biodiversity.

Botany



Harvey Parker

ISBN
978-1-63239-106-3

\$110.00 US

2015

Book Size
6"x9"

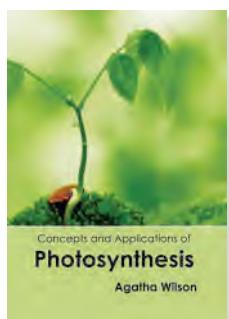
238pp.
Colored

Hardback

Botany: Theory and Concepts

Botany is a field of biology that deals with the science of plants. This book discusses current issues of plant-environment interaction which would be appealing to environmental scientists. In the beginning, this book talks about flood tensions, resilience to drought and dehydration, toxic effects of chromium and lead on plants. Reading further, it discusses the facets of economic botany including reports on smut disease in few crops and features of plant extracts. The conclusion encompasses topical issues like morphogenesis and genetics in cotton fiber special cell, hybrid lethality in the Genus Nicotiana, pollen tube growth in Leucojum aestivum etc. This book targets researchers, students and professionals involved in the field of botany.

Botany



Agatha Wilson

ISBN
978-1-63239-120-9

\$150.00 US

2015

Book Size
6"x9"

383pp.
Colored

Hardback

Concepts and Applications of Photosynthesis

Photosynthesis is described as the process by which green plants and some other organisms use sunlight to synthesize nutrients from carbon dioxide and water. Among a multitude of books dedicated to several aspects of photosynthesis, this book is unique in bringing together an update on the latest insights about this most significant biological process in the biosphere. In addition to fueling all the life supporting activities and processes of all living creatures on the planet ranging from bacteria to humans, photosynthesis has also developed and maintained our life supporting oxygenic atmosphere. This book has been methodically compiled in a manner that it comprehensively elucidates the mechanisms, methodologies, applications as well as stress effects of photosynthesis by providing valuable information to the readers.

Biological Sciences

Botany

Encyclopedia of
Botany



Austin Balfour

ISBN
978-1-63239-217-6

\$150.00 US

2015

Book Size
8.5"x11"

215pp.
Colored

Hardback

Encyclopedia of Botany: Volume I

In this book, the contributions from world's leading botanists on the latest developments and scientific results in the botanical field are discussed thoroughly. The book offers a comprehensive and systematic description of technologies, architectures, and methodologies of various efficient, secure, scalable, and reliable botanical researches and botany based applications. Some of the most advanced botanical approaches and researches are available in this book. It also presents topics that discuss different factors affecting plants genetic development and plant life under different circumstances around the world. This book is published with the motive of exploring botanical sciences, and to help students as well as botanists in their studies and researches.

Encyclopedia of
Botany



Austin Balfour

ISBN
978-1-63239-218-3

\$150.00 US

2015

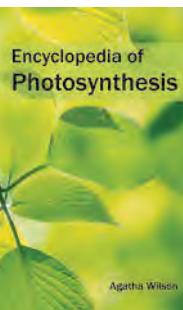
Book Size
8.5"x11"

210pp.
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Hardback

Encyclopedia of Botany: Volume II

In this book, the contributions from world's leading botanists on the latest developments and scientific results in the botanical field are discussed thoroughly. The book offers a comprehensive and systematic description of technologies, architectures, and methodologies of various efficient, secure, scalable, and reliable botanical researches and botany based applications. Some of the most advanced botanical approaches and researches are available in this book. It also presents topics that discuss different factors affecting plants genetic development and plant life under different circumstances around the world. This book is published with the motive of exploring botanical sciences, and to help students as well as botanists in their studies and researches.



Agatha Wilson

ISBN
978-1-63239-281-7

\$160.00 US

2015

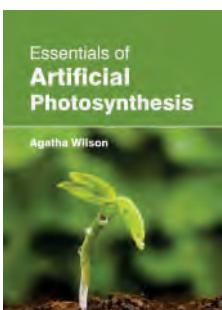
Book Size
6"x9"

437pp.
Colored

Hardback

Encyclopedia of Photosynthesis

This book presents a broad overview on the various aspects of the life giving process of photosynthesis. Photosynthesis is one of the most significant reactions on Earth, and is an essentially interdisciplinary scientific field, with several research groups analyzing and gathering beneficial results from the study of this interesting process. This book discusses the fundamental and applied aspects of photosynthesis. It has been written by specialists in the field of photosynthesis research and associated fields and offers a discourse on distinct and novel topics from photosynthetic inhibitors to relationship between flowering initiation and photosynthesis.



Agatha Wilson

ISBN
978-1-63239-327-2

\$120.00 US

2015

Book Size
6"x9"

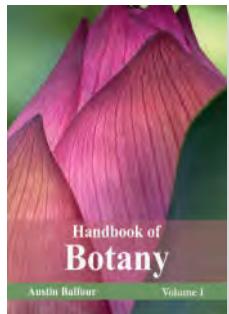
300pp.
Colored

Hardback

Essentials of Artificial Photosynthesis

This book presents an updated account on the technique of artificial photosynthesis. Photosynthesis is one of the most vital processes on Earth, and is a scientific field that is essentially interdisciplinary, with various research groups analyzing it. By carefully studying photosynthesis, we can formulate novel strategies and apply them for use in artificial photosynthesis, a research field attempting to mirror the natural process of photosynthesis. The aim of artificial photosynthesis is to consume the energy of the sun to form various useful products or high-energy chemicals for energy production. This book is targeted at offering important and applicable aspects of artificial photosynthesis through the contributions made by various experts.

Biological Sciences

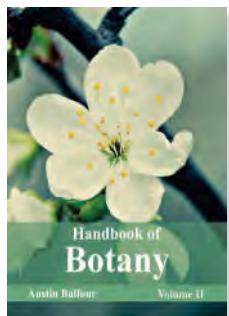


Botany

Austin Balfour	ISBN 978-1-63239-375-3	\$150.00 US	2015	Book Size 8.5"x11"	215pp. Colored	Hardback
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Handbook of Botany: Volume I

In this book, contributions from the leading botanists of the world on the latest developments and scientific results in the field of botany have been discussed thoroughly. This book offers a comprehensive and systematic description of technologies, architectures and methodologies of various efficient, secure, and reliable botanical researches and botany based applications. This book has been compiled with chapters contributed by experts from across the globe. Some of the most advanced botanical approaches and researches are available in this book. It also discusses different factors affecting the genetic development of plants from around the world.

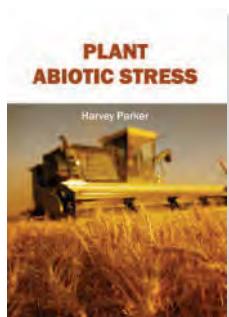


Botany

Austin Balfour	ISBN 978-1-63239-376-0	\$150.00 US	2015	Book Size 8.5"x11"	211pp. Colored	Hardback
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Handbook of Botany: Volume II

In this book, contributions from the leading botanists of the world on the latest developments and scientific results in the field of botany have been discussed thoroughly. This book offers a comprehensive and systematic description of technologies, architectures and methodologies of various efficient, secure, and reliable botanical researches and botany based applications. This book has been compiled with chapters contributed by experts from across the globe. Some of the most advanced botanical approaches and researches are available in this book. It also discusses different factors affecting the genetic development of plants from around the world.

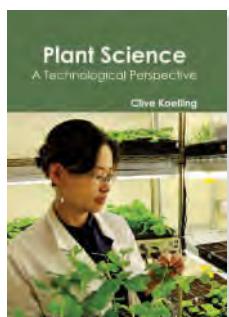


Botany

Harvey Parker	ISBN 978-1-63239-003-5	\$160.00 US	2015	Book Size 6"x9"	415pp. Colored	Hardback
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Plant Abiotic Stress

This book aims to explain the significant and extensively used techniques analyzing main abiotic stresses such as drought, tremendous temperature, calcareous soils, unnecessary irradiation, ozone, ultraviolet radiation, and flooding; and to illustrate main or recently rising methods engaged in comprehending and developing plant tolerance. In order to elaborate the approaches for plant stress endurance, examples of both averting and tolerance are presented in complete case studies in this book. The case studies also elucidate the way forward for several staple agricultural crops such as apple and wheat.



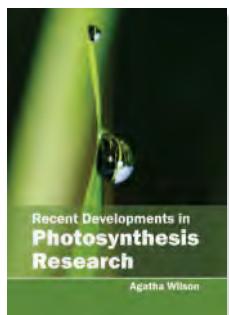
Botany

Clive Koelling	ISBN 978-1-63239-513-9	\$140.00 US	2015	Book Size 6"x9"	326pp. Colored	Hardback
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Plant Science – A Technological Perspective

Plant science is a diverse science dealing with the innumerable species of plants existing on the face of the planet. This book consists of contributions from researchers across the globe. It elucidates the relationship between environment and plants, specifically highlighting species-environment relationship and response of plants to distinct environmental stress conditions. It also presents both negative as well as positive impacts of microbes on plants. Furthermore, the book highlights present biotechnological research for development of novel technology in order to produce biological and enhance plant immunity in the current environmental conditions. This book will appeal to a broad spectrum of readers including scientists, researchers, professionals, students interested in studying in-depth about plant science and its various aspects.

Biological Sciences

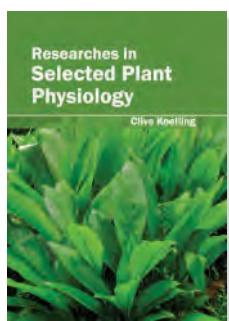


Botany

Agatha Wilson	ISBN 978-1-63239-535-1	\$140.00 US	2015	Book Size 6"x9"	344pp. Colored	Hardback
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Recent Developments in Photosynthesis Research

Photosynthesis is one of the most essential reactions on Earth and is a scientific area that is the topic of several research projects. The purpose of this book is to present the basic aspects of photosynthesis, and the outcomes collected from various research groups. It comprises of major topics like the path of carbon in photosynthesis, and special topics in photosynthesis. Important sub-topics of these subjects such as the path of carbon in photosynthesis, high-CO₂ response mechanisms in microalgae and role of C to N balance in the regulation of photosynthetic process have been broadly discussed and analyzed by experts in the book.

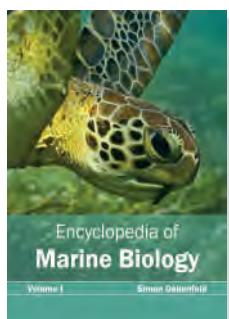


Botany

Clive Koelling	ISBN 978-1-63239-554-2	\$150.00 US	2015	Book Size 6"x9"	400pp. Colored	Hardback
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Researches in Selected Plant Physiology

The aim of this book is to provide research-focused information regarding selected plant physiology. This book provides fundamental concepts and latest insights on plant physiology covering abiotic stress, plant water relations, mineral nutrition and reproduction. Plant reactions to insufficient water availability and other inorganic strains (like metals) have been studied through changes in water consumption, transport structure and through molecular and genetic methods. A comparatively new feature of fruit nourishment is presented in order to offer the basis for the development of a few fruit quality traits. Compiling researches of experts around the globe, it can serve as a source of methodologies, theories, pathways and ideas for students and researchers in different areas of plant physiology.

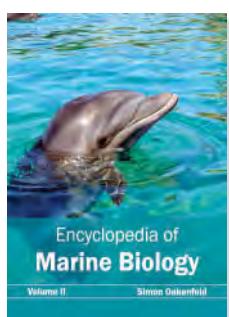


Marine Biology

Simon Oakenfold	ISBN 978-1-63239-267-1	\$150.00 US	2015	Book Size 8.5"x11"	212pp. Colored	Hardback
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Encyclopedia of Marine Biology: Volume I

This book is a collection of the contribution of many international authors on a very interesting biological field - marine biology. It contains the topics that describe the human and aquatic animals' interaction as well as some of the key issues related to marine biology. Also included in this book is a detailed discussion of the impact of chemicals on aquatic organisms and their environment. The book aims to shed light on some of the unexplored aspects of marine biology and the recent researches in this field.



Marine Biology

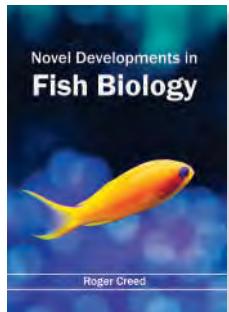
Simon Oakenfold	ISBN 978-1-63239-268-8	\$150.00 US	2015	Book Size 8.5"x11"	208pp. Colored	Hardback
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Encyclopedia of Marine Biology: Volume II

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Biological Sciences

Fisheries



Roger Creed

ISBN
978-1-63239-481-1

\$140.00 US

2015

Book Size
6"x9"

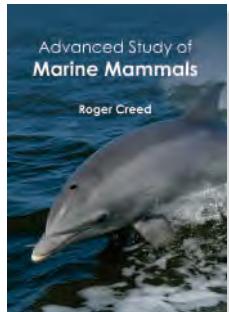
307pp.
Colored

Hardback

Novel Developments in Fish Biology

This book provides comprehensive and research-focused information regarding novel developments in the field of fish biology. It provides the readers with a comprehensive study on fish biology. Recent advancements on cellular and molecular biology and ecology have led to the collection of advanced scientific knowledge in this area. Prominent research works from across the globe have been compiled in this book to provide a useful source of reference for researchers, teachers as well as students of advanced biological sciences. This book provides the readers with a basic description of the complex biology of immune response. In-depth descriptions have also been included for the intensive understanding of cytokine regulation in teleost immune system. Important details about the environmental stressors on the responses of fish from molecular to population level have also been provided. The book also discusses topics like the roles of the atrium and the ventricular system in teleost species and the tracer methodologies used for measurements of carbohydrate metabolism. It talks about the variables responsible for the feeding action of a predacious freshwater fish species.

Zoology



Roger Creed

ISBN
978-1-63239-029-5

\$110.00 US

2015

Book Size
6"x9"

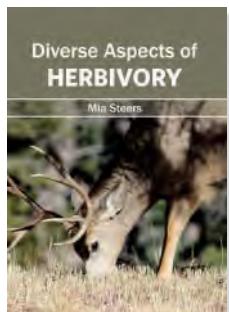
244pp.
Colored

Hardback

Advanced Study of Marine Mammals

An advanced study of marine mammals has been provided in this profound book. The specialized features of marine mammals in comparison with their terrestrial counterparts, the environment in which they live, and the effect of humans on them throughout history and in the present day scenario have all given a distinctive dimension to research on these creatures. Therefore, several researchers have undertaken unique approaches for their study. The aim of this book is to provide an overview on the diversity of approaches and viewpoints along with providing useful information on marine mammalogy. Given the growing concerns about issues of anthropogenic factors affecting these animals, it is apparent that a major part of this book deals with this issue.

Zoology



Mia Steers

ISBN
978-1-63239-147-6

\$75.00 US

2015

Book Size
6"x9"

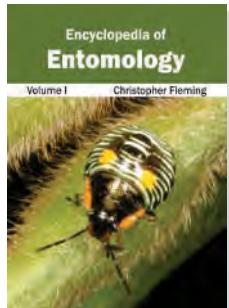
87pp.
Colored

Hardback

Diverse Aspects of Herbivory

This book presents studies and research outcomes based on various aspects of herbivory. Many questions raised by biosciences at an elementary level can be answered by closely observing herbivory. Considering the fact that agricultural systems are meant to create a balance to enhance the productive process, emphasis on natural systems is useful to predict potential changes in ecosystems. In light of the ramifications of associated processes of herbivory, studies based on various complementary methodologies are crucial for better comprehension of various aspects of the ecological process. This book elucidates these facets of herbivory by bringing forth a comprehensive approach pertaining to topics that range from fundamental research in natural habitats to the inherent relationships between flora and fauna in agricultural systems.

Zoology



Christopher Fleming

ISBN
978-1-63239-240-4

\$150.00 US

2015

Book Size
8.5"x11"

214pp.
Colored

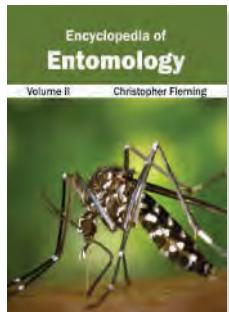
Hardback

Encyclopedia of Entomology: Volume I

Entomology is a rapidly growing field. The number of researches and scientists in this field have multiplied manifold times over the past decade. This book compiles the data and research that is available in the discipline of entomology and attempts to decipher these findings. The researchers from across the globe are discussed and their applications in other fields are also delved into. The emerging concepts in entomology as well as its sub-divisions are glanced at. Researchers, students as well as professionals in this field will find this book useful.

Biological Sciences

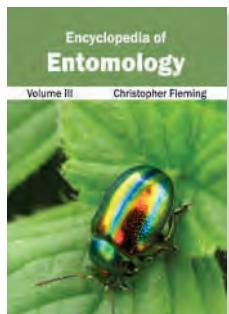
Zoology



Christopher Fleming	ISBN 978-1-63239-241-1	\$150.00 US	2015	Book Size 8.5"x11"	216pp. Colored	Hardback
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Encyclopedia of Entomology: Volume II

Entomology is a rapidly growing field. The number of researches and scientists in this field have multiplied manifold times over the past decade. This book compiles the data and research that is available in the discipline of entomology and attempts to decipher these findings. The researchers from across the globe are discussed and their applications in other fields are also delved into. The emerging concepts in entomology as well as its sub-divisions are glanced at. Researchers, students as well as professionals in this field will find this book useful.



Christopher Fleming	ISBN 978-1-63239-242-8	\$150.00 US	2015	Book Size 8.5"x11"	216pp. Colored	Hardback
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Encyclopedia of Entomology: Volume III

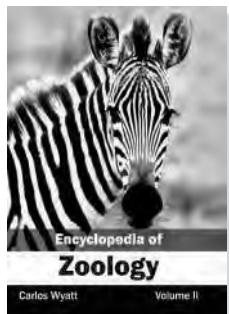
Entomology is a rapidly growing field. The number of researches and scientists in this field have multiplied manifold times over the past decade. This book compiles the data and research that is available in the discipline of entomology and attempts to decipher these findings. The researchers from across the globe are discussed and their applications in other fields are also delved into. The emerging concepts in entomology as well as its sub-divisions are glanced at. Researchers, students as well as professionals in this field will find this book useful.



Carlos Wyatt	ISBN 978-1-63239-307-4	\$150.00 US	2015	Book Size 8.5"x11"	217pp. Colored	Hardback
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Encyclopedia of Zoology: Volume I

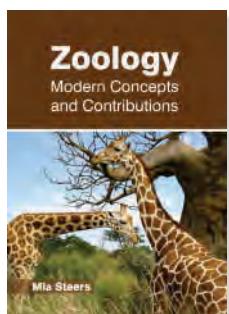
The objective of this book is to advance the scientific knowledge and understanding of numerous important aspects of zoology. It contains chapters discussing researches which have been carried out by scientists and zoologists, on various organisms, from various habitats and ecological systems. Some of the topics discussed in this book focus on the impact of human development on other organisms with respect to environmental changes.



Carlos Wyatt	ISBN 978-1-63239-308-1	\$150.00 US	2015	Book Size 8.5"x11"	221pp. Colored	Hardback
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Encyclopedia of Zoology: Volume II

The objective of this book is to advance the scientific knowledge and understanding of numerous important aspects of zoology. It contains chapters discussing researches which have been carried out by scientists and zoologists, on various organisms, from various habitats and ecological systems. Some of the topics discussed in this book focus on the impact of human development on other organisms with respect to environmental changes.

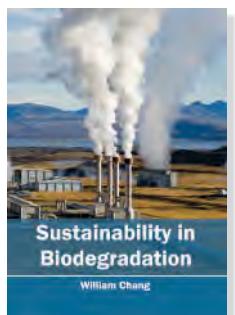


Mia Steers	ISBN 978-1-63239-624-2	\$110.00 US	2015	Book Size 6"x9"	218pp. Colored	Hardback
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Zoology: Modern Concepts and Contributions

Modern concepts as well as contributions associated with the field of zoology have been highlighted in this elaborate book. Unlike classical manuals on Zoology, this book does not present readers with a typical treatment of animal groups. As a result, some of them may be disappointed when referring to the index, specifically if they are looking for something regarded as standard. However, individuals interested in studying Zoology will not be disappointed since this book provides novelties on various topics that will help them to enhance their knowledge regarding animals. It is a compilation of information on several distinct topics associated with knowledge of animals. The information provided in this book represents current contributions in the field of Zoology. It elucidates a variety of research carried out in this discipline and provides novel data for consideration in future publications.

Biological Sciences



William Chang

ISBN
978-1-63239-576-4

\$110.00 US

2015

Book Size
6"x9"

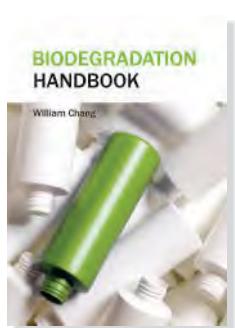
209pp.
Colored

Hardback

Sustainability

Sustainability in Biodegradation

This book provides an array of various research works discussing different technologies that have been used for the escalation of biodegradation process. The book deals with various factors and aspects of biodegradation. These include biodegradation and sustainability.



William Chang

ISBN
978-1-63239-088-2

\$150.00 US

2015

Book Size
6"x9"

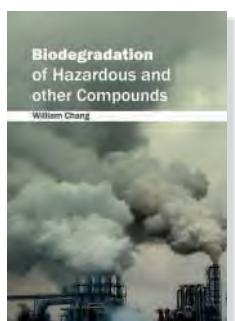
375pp.
Colored

Hardback

Waste Management

Biodegradation Handbook

This book, written for readers with interest in the process of biodegradation, serves as a good source of information. It is a compilation of various biodegradation research procedures which lead to various biological processes. It deals with biodegradation with respect to polymers and surfactants and also takes into account the microbial behavior.



William Chang

ISBN
978-1-63239-089-9

\$90.00 US

2015

Book Size
6"x9"

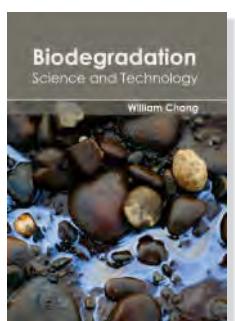
185pp.
Colored

Hardback

Waste Management

Biodegradation of Hazardous and Other Compounds

The process of biodegradation of hazardous and other compounds has been elucidated in this comprehensive book. It is a compilation of various research documents and procedures that pertain to the biodegradation compounds with contaminant characteristics while also focusing on specific products of varied interests as value added products or ones which facilitate following up of diverse biological processes. Contaminants are generated by numerous industrial processes like halogen compounds and by-products of the petroleum industry. On some occasions, natural calamities like tsunamis also give rise to such compounds which require intervention for recovery from damaged soils. Moreover, this book enlists topics that deal with special product degradation processes such as chlorophyll, corresponding to a biological process indicator like photosynthesis.



William Chang

ISBN
978-1-63239-090-5

\$120.00 US

2015

Book Size
6"x9"

280pp.
Colored

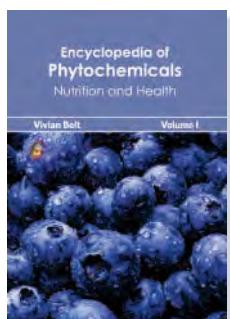
Hardback

Waste Management

Biodegradation: Science and Technology

This book presents an array of various research works discussing different technologies that have been used for the escalation of biodegradation process. The book deals with various factors and aspects of biodegradation. These include hydrocarbons biodegradation, and biodegradation and anaerobic digestion.

Biological Sciences

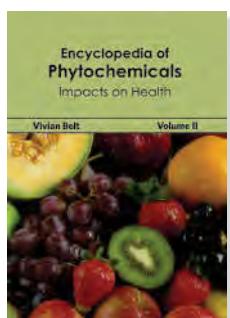


Food Science

Vivian Belt	ISBN 978-1-63239-282-4	\$120.00 US	2015	Book Size 6"x9"	284pp. Colored	Hardback
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Encyclopedia of Phytochemicals: Nutrition and Health Volume I

Phytochemicals are utilized for food and medicinal purposes. Phytochemicals are biologically active non-nutritive compounds that occur naturally in plants. This book is designed in reaction to the requirement for more current and global scope of these chemicals. Several topics are encompassed in this book like analytical processes, analysis of flavonoids, occurrence, security and industrial applications. This book consists of contributions made by internationally renowned authors. It is intended to satisfy the needs of health professionals, researchers, government regulatory agencies and industries. The aim of this book is to serve as a valuable source of reference for the readers who are related to this significant and rapidly advancing area of phytochemicals, health and human nutrition.

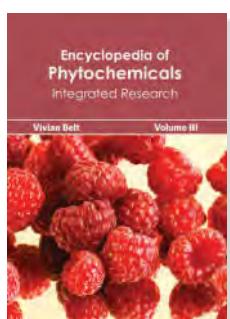


Food Science

Vivian Belt	ISBN 978-1-63239-283-1	\$120.00 US	2015	Book Size 6"x9"	278pp. Colored	Hardback
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Encyclopedia of Phytochemicals: Impacts on Health Volume II

This book on phytochemicals is designed in response to the requirement for more current research on the subject. Phytochemicals are biologically active non-nutritive compounds that occur naturally in plants. They are utilized for food and medicinal purposes. Several topics are encompassed in this book like phytochemicals and their pharmacological aspects, chemical as well as physical aspects and biological activities. This book consists of contributions made by internationally renowned authors. It is intended to satisfy the needs of health professionals, researchers, government regulatory agencies and industries. The aim of this book is to serve as a valuable source of reference for the readers who are related to this significant and rapidly advancing area of phytochemicals, and its impact on human health.

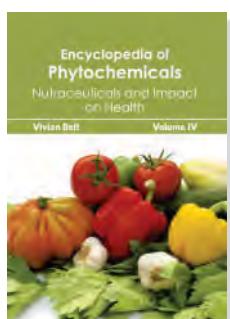


Food Science

Vivian Belt	ISBN 978-1-63239-284-8	\$150.00 US	2015	Book Size 6"x9"	402pp. Colored	Hardback
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Encyclopedia of Phytochemicals: Integrated Research Volume III

Integrated research in the field of phytochemicals has been illustrated in this book. Phytochemicals are biologically active non-nutritive compounds occurring naturally in plants. They are utilized for food and medicinal purposes and a lot of interest has been generated lately in their characterization, biological activity and isolation. This book has been compiled in accordance with the requirement for more current and global scope of these chemicals. Renowned authors from across the world have contributed in this book. Several topics encompassed in this book include analytical processes, occurrence of these phytochemicals, security, industrial applications, chemical as well as physical aspects and biological activity. The book is intended at satisfying the needs of health professionals, researchers, government regulatory agencies and industries. Its aim is to serve as a valuable source of reference in this significant and rapidly advancing area of phytochemicals, health and human nutrition.



Food Science

Vivian Belt	ISBN 978-1-63239-285-5	\$120.00 US	2015	Book Size 6"x9"	291pp. Colored	Hardback
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Encyclopedia of Phytochemicals: Nutraceuticals and Impact on Health Volume IV

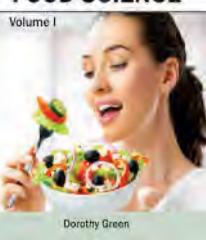
This book extensively examines phytochemicals and the impact on human health. Phytochemicals can be referred to as any of the various biologically active compounds found in plants. None of the thousands of naturally occurring constituents so far found in plants are considered to be dangerous towards human health at the present low levels of intake when used as flavoring substances. Genetic as well as environmental factors often influence the chemical composition of the plant essential oils because of their natural origin. Factors like geographical location, species and subspecies, harvest time, plant part used and technique of isolation all influence the chemical composition of the crude material detached from the plant. The screening of natural products and plant extracts for antimicrobial and antioxidative activity has unveiled the potential of higher plants as a source of novel agents, to serve the processing of natural products.

Biological Sciences

Food Science

Volume 01

NUTRITION AND FOOD SCIENCE



Dorothy Green

ISBN
978-1-63239-483-5

\$150.00 US

2015

Book Size
8.5"x11"

218pp.
Colored

Hardback

Nutrition and Food Science

Nutrition and food science has emerged as a significant field of study in the recent times. The demand for food and the need to sustain its quality has fueled the growth of the discipline. This book emphasizes the advancements in food and nutrition science. It elucidates the recent researches and emerging concepts of this discipline and presents them in a comprehensive manner for its readers.

Volume 02

NUTRITION AND FOOD SCIENCE



Dorothy Green

ISBN
978-1-63239-484-2

\$150.00 US

2015

Book Size
8.5"x11"

219pp.
Colored

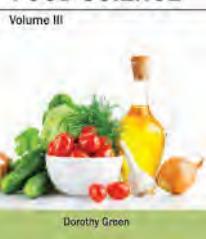
Hardback

Nutrition and Food Science

Nutrition and food science has emerged as a significant field of study in the recent times. The demand for food and the need to sustain its quality has fueled the growth of the discipline. This book emphasizes the advancements in food and nutrition science. It elucidates the recent researches and emerging concepts of this discipline and presents them in a comprehensive manner for its readers.

Volume 03

NUTRITION AND FOOD SCIENCE



Dorothy Green

ISBN
978-1-63239-485-9

\$150.00 US

2015

Book Size
8.5"x11"

216pp.
Colored

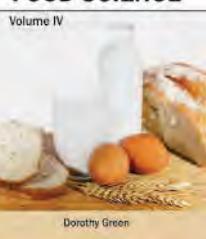
Hardback

Nutrition and Food Science

Nutrition and food science has emerged as a significant field of study in the recent times. The demand for food and the need to sustain its quality has fueled the growth of the discipline. This book emphasizes the advancements in food and nutrition science. It elucidates the recent researches and emerging concepts of this discipline and presents them in a comprehensive manner for its readers.

Volume 04

NUTRITION AND FOOD SCIENCE



Dorothy Green

ISBN
978-1-63239-486-6

\$150.00 US

2015

Book Size
8.5"x11"

220pp.
Colored

Hardback

Nutrition and Food Science

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Volume 05

NUTRITION AND FOOD SCIENCE



Dorothy Green

ISBN
978-1-63239-487-3

\$150.00 US

2015

Book Size
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219pp.
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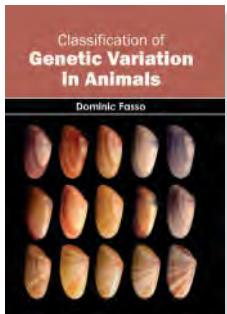
Hardback

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Genetics



Dominic Fasso

ISBN
978-1-63239-113-1

\$150.00 US

2015

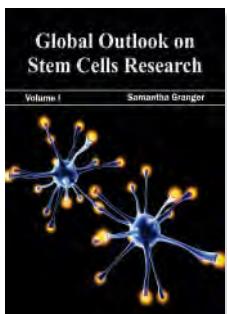
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375pp.
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Classification of Genetic Variation in Animals

This book is a compilation of various researches conducted by experts which focus on the genetic variation in animals. It discusses the scale of genetic variation present in animals. The genetic diversity exhibited by molecular markers gets extensive interest because of the utility of this information in breeding and conservation programs. In this theory, molecular markers give important data. The increasing availability of highly sophisticated molecular markers produces a detailed analysis and evaluation of genetic diversity in animals, and recognition of genes influencing reasonably significant qualities. The objective of the book is to offer a glance into the dynamic procedure of genetic variation in animals by presenting the opinion of experts who are engaged in the generation of new initiatives and techniques employed for the assessment of genetic diversity. The book should prove helpful for students and experts in the field of genetic protection.



Samantha Granger

ISBN
978-1-63239-362-3

\$150.00 US

2015

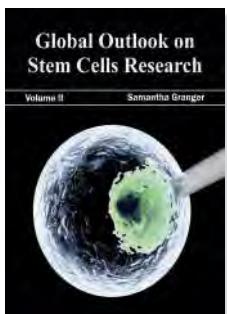
Book Size
8.5"x11"

222pp.
Colored

Hardback

Global Outlook on Stem Cells Research: Volume I

For a field as advanced as stem cells the avenues for research and development are vast. This book presents all current available research and methodologies that are going on in the field today. The various advancements in stem cell research are discussed along with its proposed technological advancements and their practical applications. Research scientists as well as students of this discipline will find this compilation helpful in furthering their knowledge.



Samantha Granger

ISBN
978-1-63239-363-0

\$150.00 US

2015

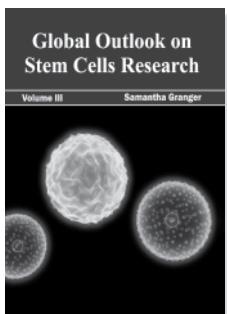
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216pp.
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Hardback

Global Outlook on Stem Cells Research: Volume II

For a field as advanced as stem cells the avenues for research and development are vast. This book presents all current available research and methodologies that are going on in the field today. The various advancements in stem cell research are discussed along with its proposed technological advancements and their practical applications. Research scientists as well as students of this discipline will find this compilation helpful in furthering their knowledge.



Samantha Granger

ISBN
978-1-63239-364-7

\$150.00 US

2015

Book Size
8.5"x11"

219pp.
Colored

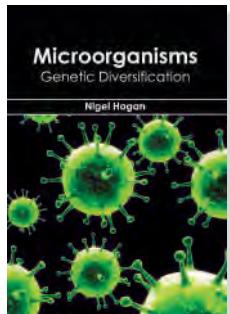
Hardback

Global Outlook on Stem Cells Research: Volume III

For a field as advanced as stem cells the avenues for research and development are vast. This book presents all current available research and methodologies that are going on in the field today. The various advancements in stem cell research are discussed along with its proposed technological advancements and their practical applications. Research scientists as well as students of this discipline will find this compilation helpful in furthering their knowledge.

Biological Sciences

Genetics



Nigel Hogan

ISBN
978-1-63239-459-0

\$150.00 US

2015

Book Size
6"x9"

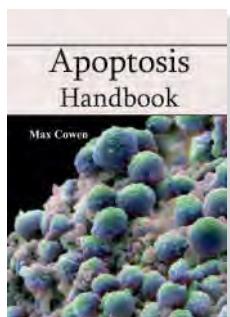
382pp.
Colored

Hardback

Microorganisms: Genetic Diversification

Microorganisms are a group of organisms that are characterized with the quality of being visible only with the help of a microscope. This book unveils new topics revealing the scale of genetic diversity of microorganisms existing in various environmental circumstances. The complexity and variety of microbial populations is by far the uppermost among all living organisms. The variety of microbial communities and their ecologic roles are being constantly analyzed in soil, water, plants and animals, and in tremendous environments such as the arctic deep-sea vents or high saline lakes. The growing accessibility of PCR-based molecular developers allows thorough researches and valuation of genetic range in microorganisms. The motive of the book is to offer a glance into the dynamic procedures of genetic diversity of microorganisms by providing the views of experts who are involved in creation of bright ideas and methods employed for the assessment of genetic diversity, often from different perspectives. This book should be helpful to amateurs and experts in the field of molecular biology.

Cell Biology



Max Cowen

ISBN
978-1-63239-073-8

\$120.00 US

2015

Book Size
6"x9"

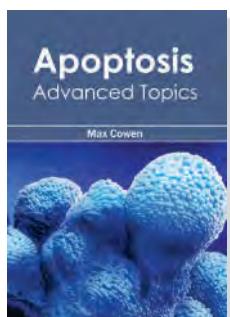
288pp.
Colored

Hardback

Apoptosis Handbook

Apoptosis refers to the procedure of programmed cell death (PCD). This book reflects the recent research studies on apoptosis in medicine. It provides an introduction of apoptosis to the uninitiated. It also discusses its applications in normal physiology during bone resorption under mechanical stress and deals with the analysis of apoptosis in a number of pathological conditions with special emphasis on cancer.

Cell Biology



Max Cowen

ISBN
978-1-63239-074-5

\$110.00 US

2015

Book Size
6"x9"

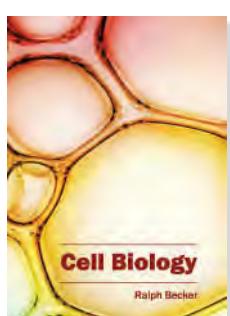
208pp.
Colored

Hardback

Apoptosis: Advanced Topics

This book covers a broad spectrum of Apoptosis-related scientific research. Apoptosis is a programmed cell death (PCD). Since its discovery more than a century and half ago, apoptosis has been implicated in many processes in living organisms. It will be a valuable source for medical practitioners, researchers and students for updating their knowledge on recent advances in this field.

Cell Biology



Ralph Becker

ISBN
978-1-63239-109-4

\$90.00 US

2015

Book Size
6"x9"

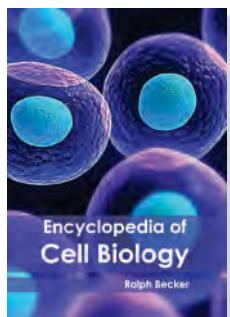
189pp.
Colored

Hardback

Cell Biology

Prominent experts featured within this book present their views in a comprehensive summary on cell biology. This book consists of multiple chapters which can broadly be divided into categories such as cell structures and functions, and genetic material. However, due to the interdisciplinary approaches utilized by the authors this categorization is not rigid. The current frontiers explored within this book can serve as an inspiration for further research. Also, the views represented are visible in various areas of fundamental biology, biotechnology, biomedicine and other applications of the information regarding cell biology. This book will help beginners to get an insight into the field, and will provide new information for experts.

Biological Sciences

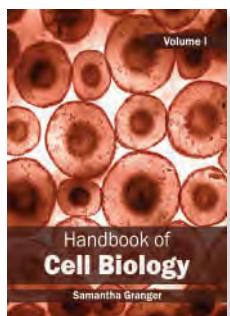


Cell Biology

Ralph Becker | ISBN 978-1-63239-219-0 | \$150.00 US | 2015 | Book Size 6"x9" | 392pp. Colored | Hardback

Encyclopedia of Cell Biology

This book provides an extensive analysis of the present knowledge regarding cell biology. The text consists of multiple chapters which can broadly be divided into categories such as regulatory mechanisms, cellular therapy and new methods in biology. However, due to the interdisciplinary approaches utilized by the authors this categorization is not rigid. The current frontiers explored within this book, sets the foundation for further research. Also, the views represented are visible in various areas of fundamental biology, biotechnology, biomedicine and other applications of the information regarding cell biology. This book will help beginners to gain interest and provide experts with new information in the field.

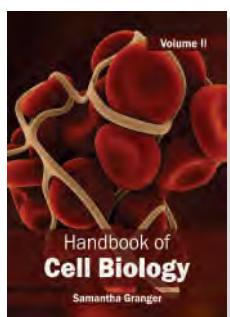


Cell Biology

Samantha Granger | ISBN 978-1-63239-378-4 | \$150.00 US | 2015 | Book Size 8.5"x11" | 217pp. Colored | Hardback

Handbook of Cell Biology: Volume I

Cell biology has brought about drastic changes in the medical and biotechnological fields, which is helping the humankind in unthinkable manners. This book elucidates cell biology, its importance and usage in today's world. It tries to keep abreast its readers with the latest advancements in this field through well-written texts, researches, studies and data. It also focuses on the enhancement of technology, its effects on the studies related to cell biology and how it can be used for human welfare and development.

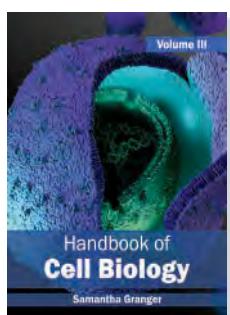


Cell Biology

Samantha Granger | ISBN 978-1-63239-379-1 | \$150.00 US | 2015 | Book Size 8.5"x11" | 213pp. Colored | Hardback

Handbook of Cell Biology: Volume II

Cell biology has brought about drastic changes in the medical and biotechnological fields, which is helping the humankind in unthinkable manners. This book elucidates cell biology, its importance and usage in today's world. It tries to keep abreast its readers with the latest advancements in this field through well-written texts, researches, studies and data. It also focuses on the enhancement of technology, its effects on the studies related to cell biology and how it can be used for human welfare and development.

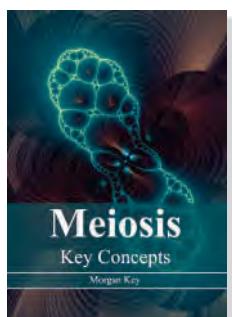


Cell Biology

Samantha Granger | ISBN 978-1-63239-380-7 | \$150.00 US | 2015 | Book Size 8.5"x11" | 218pp. Colored | Hardback

Handbook of Cell Biology: Volume III

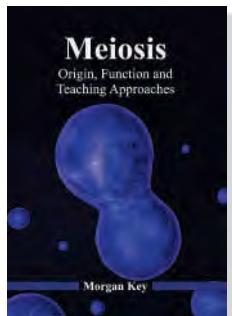
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Cell Biology

Morgan Key | ISBN 978-1-63239-457-6 | \$120.00 US | 2015 | Book Size 6"x9" | 284pp. Colored | Hardback

Meiosis: Key Concepts

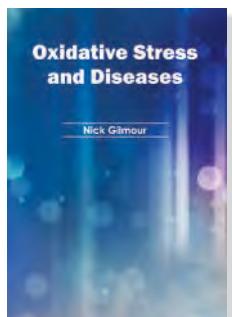
This book provides an in-depth analysis of the recent advancements in meiosis. Meiosis, the procedure of producing gametes in preparation for sexual reproduction, has long been a focal point of concentrated research. It has been researched at the cytological, hereditary, molecular and cellular stages. Researches in model systems have exposed universal essential mechanisms while parallel studies in various organisms have led to the discovery of variations in meiotic methods. This book discusses topics related to the molecular biology of mammalian meiosis. It also includes molecular and cytogenetic studies of meiosis in plants. The book collects various strands of examination into this enthralling and demanding field of biology.


Cell Biology

Morgan Key | ISBN 978-1-63239-458-3 | \$80.00 US | 2015 | Book Size 6"x9" | 130pp. Colored | Hardback

Meiosis: Origin, Function and Teaching Approaches

The origin, functions and teaching approaches regarding the process of meiosis are described in this comprehensive book. Meiosis is the fundamental process for sexual reproduction in eukaryotes, occurring in single-celled eukaryotes and in most multicellular eukaryotes including animals and most plants. Hence, meiosis is of significant interest as far as science and natural human curiosity about sexual reproduction are concerned. A better understanding of important aspects of meiosis has developed in recent years. This has led to comprehension of major issues regarding meiosis and reproduction including progression mechanism of meiosis at the molecular level, emergence of meiosis and sex during evolution, and the major adaptive function of meiosis and sex. Moreover, changing perspectives on meiosis and sex have posed the question of how should meiosis be taught. This book provides answers to these questions, with extensive supporting references from currently available literature.


Cell Biology

Nick Gilmour | ISBN 978-1-63239-501-6 | \$140.00 US | 2015 | Book Size 6"x9" | 322pp. Colored | Hardback

Oxidative Stress and Diseases

Information related to oxidative stress and diseases has been highlighted in this profound book. The formulation of hypothesis of oxidative stress in the 1980s aroused the interest of biomedical and biological sciences which exists in the present day scenario as well. The contributions in this book educate the readers on the role of reactive oxygen species in distinct pathologies in animals as well as humans. The book is designed in such a way that it covers particular groups of pathologies like diabetes, cardiovascular diseases, and related general aspects. The aim of this book is to serve as a useful source of information for readers including researchers, students, etc.

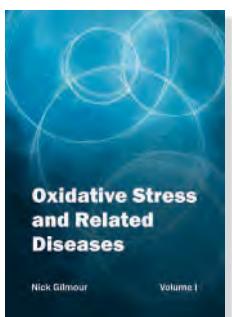

Cell Biology

Nick Gilmour | ISBN 978-1-63239-502-3 | \$120.00 US | 2015 | Book Size 6"x9" | 312pp. Colored | Hardback

Oxidative Stress and Diseases: Advanced Topics

Information related to oxidative stress and diseases has been examined in this book. The formulation of hypothesis of oxidative stress in the 1980s aroused the interest of biomedical and biological sciences which exists in the present day scenario as well. The contributions in this book educate the readers on the role of reactive oxygen species in distinct pathologies in animals as well as humans. The book is designed in such a way that it covers all the particular groups of pathologies like cancer, hormonal, neuronal, and systemic ones. It also elucidates the potential of antioxidants to safeguard organisms against harmful effects of reactive species. This book is a useful source of information for readers including researchers and students.

Biological Sciences



Cell Biology

Nick Gilmour	ISBN 978-1-63239-503-0	\$120.00 US	2015	Book Size 6"x9"	308pp. Colored	Hardback
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Oxidative Stress and Related Diseases: Volume I

This book responds to the urge to find, in a sole document, the impact of oxidative stress at distinct levels as well as treatment with antioxidants to react and decrease the damage. The contents of the book are grouped under two sections: cell biology, chemical free radicals & antioxidants and cell damage by oxidative stress. It is intended for health professionals, as researchers from across the world have contributed in it. The book is a collaborative effort for progressing towards the prevention and treatment of chronic degenerative diseases.

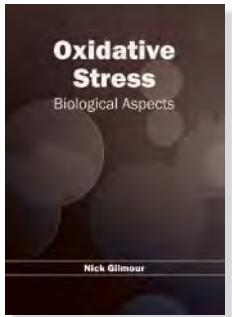


Cell Biology

Nick Gilmour	ISBN 978-1-63239-504-7	\$110.00 US	2015	Book Size 6"x9"	209pp. Colored	Hardback
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Oxidative Stress and Related Diseases: Volume II

This book is a collaborative effort for progressing towards the prevention and treatment of chronic degenerative diseases. It responds to the urge to find, in a sole document, the impact of oxidative stress at distinct levels, as well as treatment with antioxidants to react and decrease the damage. The book includes two sections namely, aging and therapy- a role for antioxidants. Researchers from across the world have contributed in it. The book is intended for health professionals and those interested in combating stress.

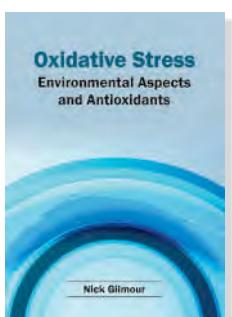


Cell Biology

Nick Gilmour	ISBN 978-1-63239-505-4	\$150.00 US	2015	Book Size 6"x9"	377pp. Colored	Hardback
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Oxidative Stress: Biological Aspects

This book focuses on the elucidation of the biological aspects of oxidative stress. Researchers have shown great interest in the interaction of free radicals with biological molecules ever since their discovery. As a result of successful ideas and results, oxidative stress is now acknowledged by both general and applied scientists as an advanced steady state level of reactive oxygen species with broad spectrum of biological effects. This book encompasses a broad range of issues and aspects associated with the field of oxidative stress. The relation between elimination and generation of reactive species and impact of oxidative stress have also been discussed, along with analyses of current studies on the signaling role of reactive species in eukaryotic organisms. Contemporary comprehension of homeostasis of reactive species and cellular processes has also been provided in this book for the benefit of the readers, along with valuable information for future references.



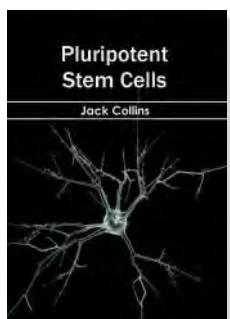
Cell Biology

Nick Gilmour	ISBN 978-1-63239-506-1	\$160.00 US	2015	Book Size 6"x9"	403pp. Colored	Hardback
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Oxidative Stress: Environmental Aspects and Antioxidants

This book discusses the environmental aspects of oxidative stress and also provides up-to-date information regarding antioxidants. Various applications of oxidative stress theory under the impact of environmental factors on biological systems have been discussed in this book comprising of induction of oxidative stress by biological, physical, and chemical factors in animals, fungi, plants and humans. The physical factors described herein include exercise, light and temperature; chemical induction is associated with pesticides and metal ions, while the biological factors elucidated include host-pathogen interplay and the impact of stress on secretory system. Antioxidants, which comprise of a wide spectrum of individual compounds and their mixtures of natural origin and those chemically synthesized to avoid or restore negative impacts of reactive species, have also been elucidated in this book. It will serve as a valuable source of reference for graduate and postgraduate students, physicians, environmentalists, and researchers.

Biological Sciences



Cell Biology

Jack Collins

ISBN
978-1-63239-514-6

\$150.00 US

2015

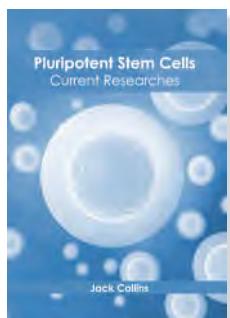
Book Size
6"x9"

377pp.
Colored

Hardback

Pluripotent Stem Cells

Stem cells have developed a great amount of excitement among the clinicians, researchers and the public alike. Several types of stem cells are being examined for their regenerative ability. Slight advantage because of transplanting autologous stem cells in several distinct clinical conditions has been suggested to be a progress factor effect rather than actual regeneration. In comparison, several pre-clinical analyses have been carried out, with the help of differentiated cells from induced pluripotent stem cells or embryonic stem cells have displayed functional advancement, promise and zero signs of teratoma formation. This book is a compilation of studies/reviews, starting with an introduction to the pluripotent stem cells and encompassing aspects like differentiation and derivation under two broad sections namely, pluripotent stem cells: genesis & means and mechanistic underpinning. These topics include the generation of cells and diverse ways of their derivation from adult as well as embryonic tissues, and the mechanistic comprehension of pluripotency along with the related pros and cons in the same are covered in this book.



Cell Biology

Jack Collins

ISBN
978-1-63239-515-3

\$120.00 US

2015

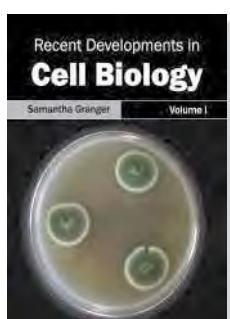
Book Size
6"x9"

265pp.
Colored

Hardback

Pluripotent Stem Cells: Current Researches

This book is an up-to-date guide on pluripotent stem cells. Several types of stem cells are being examined for their regenerative ability. Stem cells have developed a great amount of excitement among the clinicians, researchers and the public alike. Slight advantage because of transplanting autologous stem cells in several distinct clinical conditions has been suggested to be a progress factor effect rather than actual regeneration. In comparison, several pre-clinical analyses have been carried out, with the help of differentiated cells from induced pluripotent stem cells or embryonic stem cells have displayed functional advancement, promise and zero signs of teratoma formation. This book is a compilation of studies, starting with an introduction to the pluripotent stem cells and encompassing insightful information regarding the latest standing on the pluripotent stem cells biology and elucidation of the potential therapeutic implications and ethical concerns of these in vitro developed cells in different diseases, along with the related pros and cons are covered in this book.



Cell Biology

Samantha Granger

ISBN
978-1-63239-530-6

\$150.00 US

2015

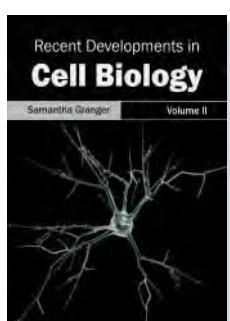
Book Size
8.5"x11"

219pp.
Colored

Hardback

Recent Developments in Cell Biology: Volume I

This book attempts to understand the multiple branches that fall under the definition of cell biology and how such research has practical applications in our lives. The various concepts that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail here. Those in search of information to further their knowledge of this field will be greatly assisted by this book.



Cell Biology

Samantha Granger

ISBN
978-1-63239-531-3

\$150.00 US

2015

Book Size
8.5"x11"

230pp.
Colored

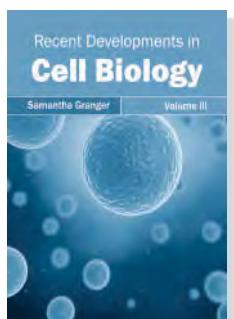
Hardback

Recent Developments in Cell Biology: Volume II

This book attempts to understand the multiple branches that fall under the definition of cell biology and how such research has practical applications in our lives. The various concepts that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail here. Those in search of information to further their knowledge of this field will be greatly assisted by this book.

Biological Sciences

Cell Biology

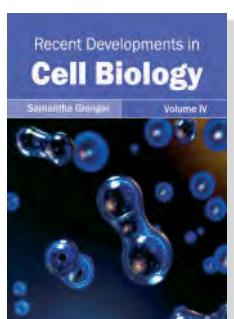


Samantha Granger	ISBN 978-1-63239-532-0	\$150.00 US	2015	Book Size 8.5"x11"	221pp. Colored	Hardback
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Recent Developments in Cell Biology: Volume III

This book attempts to understand the multiple branches that fall under the definition of cell biology and how such research has practical applications in our lives. The various concepts that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail here. Those in search of information to further their knowledge of this field will be greatly assisted by this book.

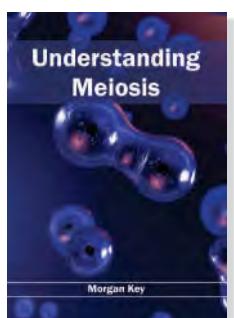
Cell Biology



Samantha Granger	ISBN 978-1-63239-533-7	\$150.00 US	2015	Book Size 8.5"x11"	209pp. Colored	Hardback
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Recent Developments in Cell Biology: Volume IV

This book attempts to understand the multiple branches that fall under the definition of cell biology and how such research has practical applications in our lives. The various concepts that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail here. Those in search of information to further their knowledge of this field will be greatly assisted by this book.

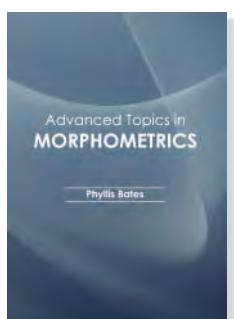


Morgan Key	ISBN 978-1-63239-600-6	\$90.00 US	2015	Book Size 6"x9"	200pp. Colored	Hardback
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Understanding Meiosis

Meiosis refers primarily to the cell division for reproduction. Meiosis, the procedure of producing gametes in preparation for sexual reproduction, has long been a focal point of concentrated research. It has been researched at the cytological, hereditary, molecular and cellular stages. Researches in model systems have exposed universal essential mechanisms while parallel studies in various organisms have led to the discovery of variations in meiotic methods. This book primarily focuses on the molecular and comparative study of meiosis via model systems. It collects various strands of examination into this enthralling and demanding field of biology.

Cell Biology

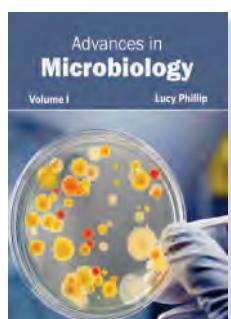


Phyllis Bates	ISBN 978-1-63239-032-5	\$80.00 US	2015	Book Size 6"x9"	119pp. Colored	Hardback
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Advanced Topics in Morphometrics

This book discusses advanced topics in morphometrics, for adopting its application to systematics, environmental change and ontogenetic adaptation. It is human tendency to measure things, and this applies in science as well as day-to-day life. As our comprehension of epigenetics and genetic control mechanisms has enhanced over the past numerous decades, it has become vivid that morphometric evaluation continues to be essential to our complete understanding of natural variability in growth and form. The enormous progress of our knowledge base in the past century has necessitated that we look for novel methods to measure and map more detail as well as more numbers of parameters among individuals and populations. The book will serve as a reference to a broad spectrum of readers.

Biological Sciences



Immunology & Microbiology

Lucy Phillip

ISBN
978-1-63239-047-9

\$150.00 US

2015

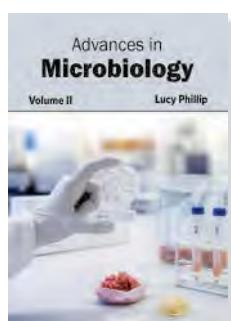
Book Size
8.5"x11"

216pp.
Colored

Hardback

Advances in Microbiology: Volume I

Microbiology is a growing field of science. It has found varied yet significant applications in many industrial sectors which have led to constant research in this field, across the globe. This book is an attempt to cover the vast subject of microbiology. Starting with the rich history through times into the modern era, the book tries to capture the subject matter in its entirety. Using student friendly language, lucid flow of content, and diagrammatic representation (whenever possible and useful), the book is a resource guide for experts as well as students.



Immunology & Microbiology

Lucy Phillip

ISBN
978-1-63239-048-6

\$150.00 US

2015

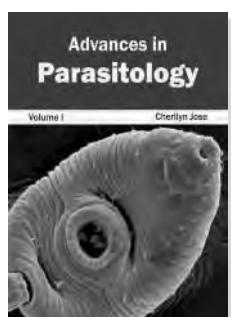
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Advances in Microbiology: Volume II

Microbiology is a growing field of science. It has found varied yet significant applications in many industrial sectors which have led to constant research in this field, across the globe. This book is an attempt to cover the vast subject of microbiology. Starting with the rich history through times into the modern era, the book tries to capture the subject matter in its entirety. Using student friendly language, lucid flow of content, and diagrammatic representation (whenever possible and useful), the book is a resource guide for experts as well as students.



Immunology & Microbiology

Cherilyn Jose

ISBN
978-1-63239-050-9

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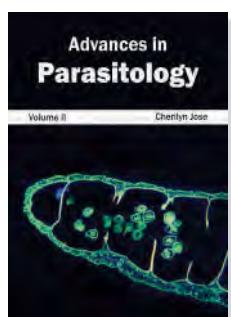
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Advances in Parasitology: Volume I

This book will provide readers a chance to choose the topic of their interest from the topics of researches presented in this field of parasitology. This book will prove to be a foundation for students as well as researchers and biologists to develop advanced diagnostic approaches, by improvising previous methodologies. This book is a collection of up-to-date contributions by international authors, and aims to facilitate the growth of this field as it elucidates the unexplored aspects of research.



Immunology & Microbiology

Cherilyn Jose

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978-1-63239-051-6

\$150.00 US

2015

Book Size
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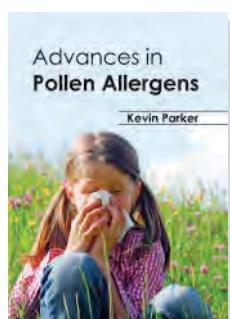
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Advances in Parasitology: Volume II

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Biological Sciences



Immunology & Microbiology

Kevin Parker

ISBN
978-1-63239-053-0

\$80.00 US

2015

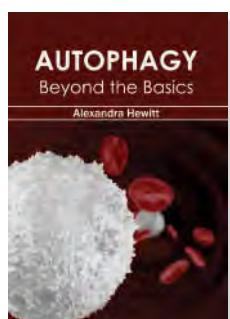
Book Size
6"x9"

134pp.
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Hardback

Advances in Pollen Allergens

This book presents current aspects associated with pollen allergy, a significant medical complication which is still under extensive research. The information encompassed in this book will be of considerable importance to those interested to gain knowledge regarding molecular basis of pollen allergy, like cross-reactivity between pollen and pollen-plant food derived allergens, allergen proteins polymorphism and its implications in allergic disease, and techniques for clinical trial and future research. The book also illustrates insights regarding the application of molecular tools in allergens identification and quantification like multiplex methodologies, assisting in the advancement of the standardization procedure of pollen protein extracts, assuring efficacy and security in allergy diagnosis and immunotherapy, and also explores the environmental factors, and alternative efficient anti-allergic and preventative techniques for allergic diseases.



Immunology & Microbiology

Alexandra Hewitt

ISBN
978-1-63239-083-7

\$110.00 US

2015

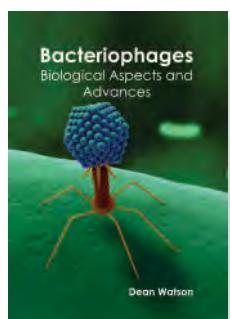
Book Size
6"x9"

251pp.
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Hardback

Autophagy: Beyond the Basics

This book highlights some of the demanding research topics related to autophagy and also analyzes the recent developments in its molecular mechanisms. The emphasis is on the role this cell defense mechanism plays in studying various diseases which include liver diseases, cancers, myopathies and infectious diseases. The contradictory role of autophagy i.e. cell survival versus cell death; draws the focus on the importance of keeping in mind this double-edged nature in future developments of the currently promising autophagy-modulating therapies. This book provides new ground breaking researches and expands the base for further study in the field of autophagy.



Immunology & Microbiology

Dean Watson

ISBN
978-1-63239-085-1

\$120.00 US

2015

Book Size
6"x9"

268pp.
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Hardback

Bacteriophages: Biological Aspects and Advances

Bacteriophages are considered as biological agents and their application as an appliance has been further enhanced in various areas of microbiology. Especially in drug design and advanced programs, phage and prophage genomics give an altogether new understanding in this field. This book provides knowledge on the organisms varying from their biology to their usage in agriculture and medicine. This book consists of a range of topics dealing with advancing technologies in this field, commencing with the biology and categorization of bacteriophages, discussing phage infections in industrial processes and their applications as therapeutic or biocontrol agents. This book will prove itself to be beneficial as a reference and resource for microbiologists, biotechnologists, agriculture, biomedical and sanitary engineers.



Immunology & Microbiology

Anthony Auster

ISBN
978-1-63239-128-5

\$110.00 US

2015

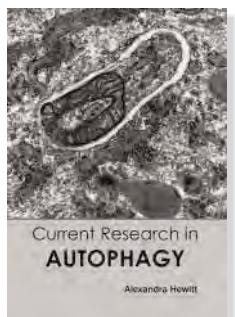
Book Size
6"x9"

242pp.
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Hardback

Confocal Laser Microscopy: Features and Diverse Applications

A descriptive discussion regarding confocal laser microscopy has been highlighted in this profound book compiled with advanced information. It presents elaborative information regarding the features as well as diverse applications of confocal laser microscopy. The book also discusses the use of this type of microscopy for the analysis of mouse retinal blood vessels along with several other topics like *in vivo* biopsy of the human cornea, application of laser scanning confocal microscopy in manufacturing and research of corneal stem cells, etc. This book intends to serve as an extensive source of information for a broad range of readers including scientists, researchers as well as students.



Alexandra Hewitt

ISBN
978-1-63239-142-1

\$120.00 US

2015

Book Size
6"x9"

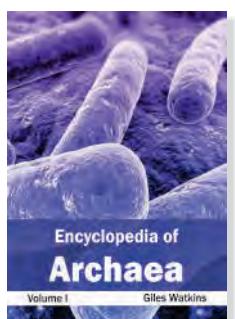
Immunology & Microbiology

272pp.
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Current Research in Autophagy

The contradictory role of autophagy i.e. cell survival versus cell death; draws the focus on the importance of keeping in mind this double-edged nature in future developments of the currently promising autophagy-modulating therapies. This book highlights some of the demanding research topics related to autophagy and also analyzes the recent developments in its molecular mechanisms. The emphasis is on the role this basic cell defense mechanism plays in studying various diseases which include autophagy in infectious diseases, in neurodegenerative diseases, and cell death.



Giles Watkins

ISBN
978-1-63239-207-7

\$150.00 US

2015

Book Size
8.5"x11"

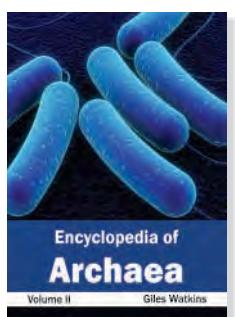
221pp.
Colored

Hardback

Immunology & Microbiology

Encyclopedia of Archaea: Volume I

The aim of this book is to study the growth, existence, scope and advantage of archaeal communities. These species have inhabited the earth since long and hence are witness to all the changes that have taken place since then. It is a subject of great interest as its application can change the face of microbiology in the most amazing way. The authors have done a profound study and analysis before presenting their findings as is apparent from the content. This book will serve as an advantage text for students and experts alike.



Giles Watkins

ISBN
978-1-63239-208-4

\$150.00 US

2015

Book Size
8.5"x11"

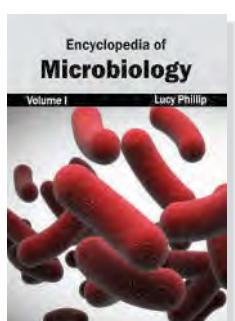
214pp.
Colored

Hardback

Immunology & Microbiology

Encyclopedia of Archaea: Volume II

The aim of this book is to study the growth, existence, scope and advantage of archaeal communities. These species have inhabited the earth since long and hence are witness to all the changes that have taken place since then. It is a subject of great interest as its application can change the face of microbiology in the most amazing way. The authors have done a profound study and analysis before presenting their findings as is apparent from the content. This book will serve as an advantage text for students and experts alike.



Lucy Phillip

ISBN
978-1-63239-269-5

\$150.00 US

2015

Book Size
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200pp.
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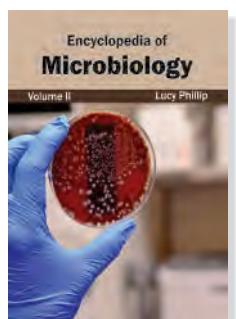
Hardback

Immunology & Microbiology

Encyclopedia of Microbiology: Volume I

This book attempts to understand the science of microbiology. The current research and data available in this field are discussed, and the ramifications of advancements in this arena are also included. The various branches that microbiology overlaps with or that shoot out from it are glanced at with research and future opportunities for progress. Researchers and students of this field will be assisted by this book. It will help them in increasing their expertise by helping them keep up with the rapid changes in microbiology.

Biological Sciences



Immunology & Microbiology

Lucy Phillip

ISBN
978-1-63239-270-1

\$150.00 US

2015

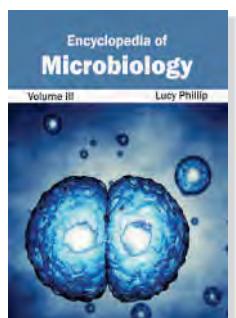
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8.5"x11"

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Hardback

Encyclopedia of Microbiology: Volume II

This book attempts to understand the science of microbiology. The current research and data available in this field are discussed, and the ramifications of advancements in this arena are also included. The various branches that microbiology overlaps with or that shoot out from it are glanced at with research and future opportunities for progress. Researchers and students of this field will be assisted by this book. It will help them in increasing their expertise by helping them keep up with the rapid changes in microbiology.



Immunology & Microbiology

Lucy Phillip

ISBN
978-1-63239-271-8

\$150.00 US

2015

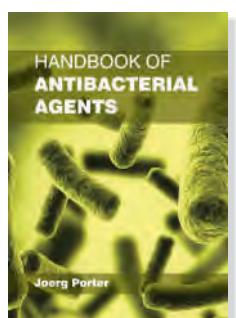
Book Size
8.5"x11"

195pp.
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Hardback

Encyclopedia of Microbiology: Volume III

This book attempts to understand the science of microbiology. The current research and data available in this field are discussed, and the ramifications of advancements in this arena are also included. The various branches that microbiology overlaps with or that shoot out from it are glanced at with research and future opportunities for progress. Researchers and students of this field will be assisted by this book. It will help them in increasing their expertise by helping them keep up with the rapid changes in microbiology.



Immunology & Microbiology

Joerg Porter

ISBN
978-1-63239-005-9

\$150.00 US

2015

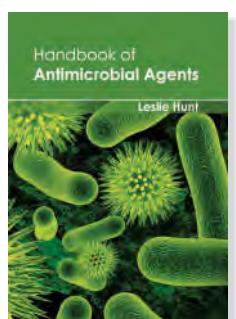
Book Size
6"x9"

358pp.
Colored

Hardback

Handbook of Antibacterial Agents

This book talks about a wide range of topics from various antibacterial agents with clinical outlook and options, to artificial antibacterial agents through thorough reviews of illnesses and their management using substitute approaches. This book is an attempt to explain bacterial ailments and their management through artificial medication replaced by chemicals attained from various natural sources which provide a future path in the pharmaceutical industry. This book tries to bring to notice, upcoming cost effective and eco-friendly medicines that are free of side effects observed in the intersecting disciplines of medicinal chemistry, biochemistry, microbiology and pharmacology.



Immunology & Microbiology

Leslie Hunt

ISBN
978-1-63239-368-5

\$160.00 US

2015

Book Size
6"x9"

437pp.
Colored

Hardback

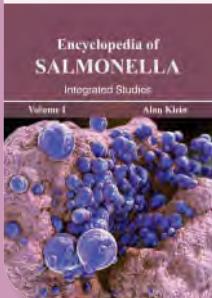
Handbook of Antimicrobial Agents

An antimicrobial agent is an agent that kills microorganisms or restricts their growth. This book talks about a wide range of topics, stressing on various antibacterial agents with clinical outlook and options to artificial antibacterial agents through thorough reviews of illnesses and their management using substitute approaches. It attempts to explain bacterial ailments and their management through synthetic drugs replaced by chemicals procured from various natural sources which provide a new path in the pharmaceutical industry. This book aims to bring to notice, the upcoming cost effective and eco-friendly medicines that are free of side effects, having been observed in the intersecting disciplines of medicinal chemistry, biochemistry, microbiology and pharmacology.

Biological Sciences

Immunology & Microbiology

Volume 01



Alan Klein

ISBN
978-1-63239-290-9

\$140.00 US

2015

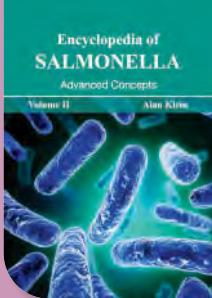
Book Size
6"x9"328pp.
Colored

Hardback

Encyclopedia of Salmonella: Integrated Studies

Salmonella have continued to exist for more than 100 years now. Researchers and experts have been tirelessly making efforts to control salmonellae since the discovery of salmonella in 1885. A few of the known serovars are responsible for causing majority of foodborne outbreaks. While certain advancements have been made in this field, it is yet to be eliminated from developed and developing countries. This book is a collection of contributions made by researchers and experts from all over the world. It focuses on a variety of topics related to understanding and controlling this pathogen. Some of the topics are: salmonella as examined in food products, environment and air; control by antimicrobials such as bacteriophages; and bacterial adaptation.

Volume 02



Alan Klein

ISBN
978-1-63239-291-6

\$110.00 US

2015

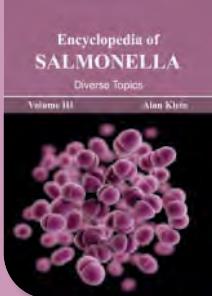
Book Size
6"x9"200pp.
Colored

Hardback

Encyclopedia of Salmonella: Advanced Concepts

Salmonella have continued to exist for more than 100 years now. Researchers and experts have been tirelessly making efforts to control salmonellae since the discovery of salmonella in 1885. A few of the known serovars are responsible for causing majority of foodborne outbreaks. While certain advancements have been made in this field, it is yet to be eliminated from developed and developing countries. This book is a collection of contributions made by researchers and experts from all over the world. It focuses on a variety of topics related to understanding and controlling this pathogen. Some of the topics are: virulence and pathogenicity; salmonella-invasion, evasion & persistence; and molecular technology for salmonella detection.

Volume 03



Alan Klein

ISBN
978-1-63239-292-3

\$120.00 US

2015

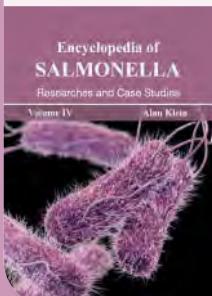
Book Size
6"x9"289pp.
Colored

Hardback

Encyclopedia of Salmonella: Diverse Topics

This book presents new developments and researches in the field of salmonella from across the globe. Salmonella comprises of two species (enterica and bongori) and is said to be an intensely variegated genus which infects a variety of hosts. This group is made up of 2579 serovars which fascinates researchers and draws their attention towards its different characteristics. Salmonella causes problems of zoonoses and also leads to food borne illness. Diseases caused by salmonella are becoming a matter of concern for developed and developing countries because of their impact on economy and other important sectors. Antimicrobial resistance in salmonella makes it difficult to reveal different mechanisms involved and this problem seems to increase further. This book focuses on environmental interactions of salmonella, problem of antimicrobial resistance and genetic aspects of salmonella. Internationally acclaimed researchers and practitioners in this field have made their valuable contributions to this book.

Volume 04



Alan Klein

ISBN
978-1-63239-293-0

\$120.00 US

2015

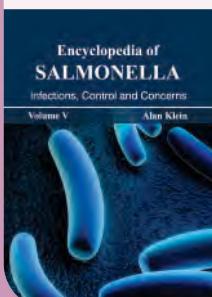
Book Size
6"x9"297pp.
Colored

Hardback

Encyclopedia of Salmonella: Researches and Case Studies

Salmonella comprises of two species (enterica and bongori) and is said to be an intensely variegated genus which infects a variety of hosts. This group is made up of 2579 serovars which fascinates researchers and draws their attention towards its different characteristics. Salmonella causes problems of zoonoses and also leads to food borne illness. Diseases caused by salmonella are becoming a matter of concern for developed and developing countries because of their impact on economy and other important sectors. Antimicrobial resistance in salmonella makes it difficult to reveal different mechanisms involved and this problem seems to increase further. This book presents new developments and researches in the field of salmonella from across the globe. It includes important topics such as immunological responses to salmonella, mechanisms of pathogenesis and diagnosis of salmonella infections. Internationally acclaimed researchers and practitioners in this field have made their valuable contributions to this book.

Volume 05



Alan Klein

ISBN
978-1-63239-294-7

\$160.00 US

2015

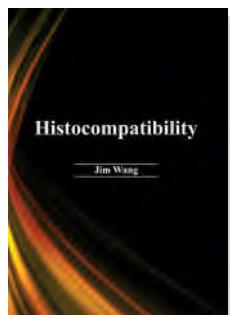
Book Size
6"x9"452pp.
Colored

Hardback

Encyclopedia of Salmonella: Infections, Control and Concerns

Salmonella is described as a bacterium that occurs primarily in the gut, especially a serotype causing food poisoning. There are more than 2,500 serotypes of salmonella in existence, but only a few lead to food borne illnesses. Salmonella is the second major bacterial cause of food-borne gastroenteritis worldwide. Most people suffering from salmonella infections do not require treatment since they are only affected by temporary gastroenteritis but when the infection gets invasive and starts spreading at a fast rate, antimicrobial treatment becomes mandatory. Symptoms occur generally 8 to 72 hours and last 3 to 5 days after ingestion of the pathogen. Salmonellosis infections mainly affect the elderly, children and immunocompromised individuals. United States suffers a loss of around \$2.4 billion due to food borne salmonella infections every year. More than 500 people die due to salmonellosis infections among a reported figure of nearly 1.4 million cases in the US every year. This book covers various topics such as ways and means for controlling salmonella in food, role of foods in salmonella infections, biofilm formation, antimicrobial drug resistance of salmonella isolates, food-borne outbreaks caused by salmonella and salmonella isolation and identification methods.

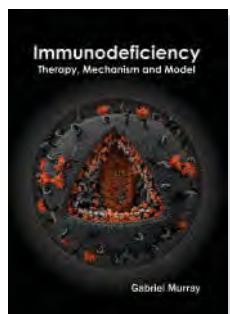
Biological Sciences



Immunology & Microbiology						
Jim Wang	ISBN 978-1-63239-419-4	\$90.00 US	2015	Book Size 6"x9"	199pp. Colored	Hardback

Histocompatibility

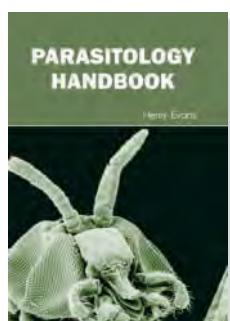
This book highlights some latest researches regarding the field of histocompatibility for a broad spectrum of readers interested in this field including scientists as well as veteran researchers. Several topics are encompassed in this all-inclusive book like HLA polymorphism in anthropology, distinctive immunological functions of HLA-G, regulation of MHC class I by viruses, etc. This book is compiled with contributions made by renowned researchers and scientists.



Immunology & Microbiology						
Gabriel Murray	ISBN 978-1-63239-428-6	\$160.00 US	2015	Book Size 6"x9"	407pp. Colored	Hardback

Immunodeficiency: Therapy, Mechanism and Model

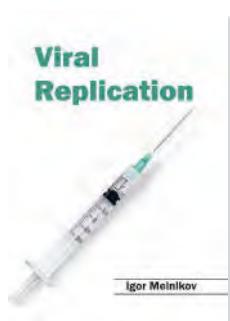
The therapy, mechanism as well as model of immunodeficiency are described in this all-inclusive book. It sheds light on one of the most common medical issues, which, unfortunately is still being researched on. Various medical issues are connected in a straight or indirect way to a particular alteration of the immune system. Therefore, they result in varied pathologic circumstances. Human defense mechanism is complex and different, but is many times defeated by infections, tumor processes, organ, tissue and cell transplantation, allergy, autoimmune processes, as well as various impacts by the environment. This book, jotted down by globally recognized scientists, discusses in detail the questions of what, why, how, when and where the immune system falls weak, what scientific results are exhibited and what are the techniques to cure and prevent immunodeficiency cases. This book will be beneficial to the learners and practitioners of medicine and biology, and will also be knowledgeable to immunologists, microbiologists, virologists, chemotherapy, oncologists, hematologists, transplantologists and pathologists.



Immunology & Microbiology						
Henry Evans	ISBN 978-1-63239-507-8	\$110.00 US	2015	Book Size 6"x9"	217pp. Colored	Hardback

Parasitology Handbook

Parasitology is a well-known and established area that deals with a variety of subjects, varying from, the basics - study of life cycle, ecology, epidemiology, taxonomy, biodiversity, to the advanced and applied situations that are related to both humans and animals. The amount of freely accessible literature that is available for this field of study is insufficient for anyone who is interested in the area. This book was visualized with this fact in mind. It consists of the findings of different studies performed by various authors, their reviews and original scientific papers. This book will be beneficial for readers interested in the field of parasitology.

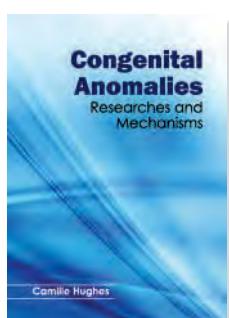


Immunology & Microbiology						
Igor Melnikov	ISBN 978-1-63239-602-0	\$90.00 US	2015	Book Size 6"x9"	155pp. Colored	Hardback

Viral Replication

The aim of this book is to educate the readers about the process of viral replication with the help of comprehensive information. It offers a compilation of descriptive reviews regarding the mechanisms of viral replication as implemented to several viruses of crucial significance to animal or human disease. Particularly, the book covers following topics: West Nile Virus: basic principles, replication mechanism, immune response and significant genetic determinants of virulence; elucidation of the immune evasion strategies employed by various viruses with special reference to classical swine fever virus; Influenza A Virus multiplication and the cellular SUMOylation System; viral replication techniques: manipulation of ER stress response pathways and promotion of IRES-Dependent Translation; Hepatitis B virus genetic diversity: disease pathogenesis; and antiviral replication agents. The aim of this book is to serve as a valuable source of reference for scholars, investigators, students and professors associated to the distinct fields of virology, as well as for individuals possessing greater knowledge and expertise regarding these fields, who are keen on updating their knowledge through descriptive reviews.

Biological Sciences



Camille Hughes

ISBN
978-1-63239-129-2

\$80.00 US

2015

Book Size
6"x9"

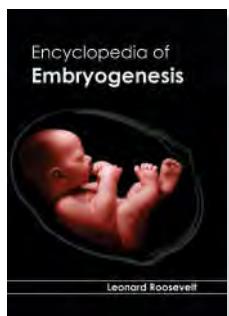
143pp.
Colored

Hardback

Developmental Biology

Congenital Anomalies: Researches and Mechanisms

Research-focused information regarding congenital anomalies and their mechanisms is provided in this book. It presents a compilation of research reports by experts in this domain. It provides readers with all inclusive information regarding congenital anomalies. A number of scientists and professionals have shared their expertise through this single book. This book demonstrates mechanisms not just through elaborated content but also uses case studies and examples to explain things better. Even diagrams and tabular representations have been used to make text more understandable. This book generates an urge in readers to read more about the congenital anomalies.



Leonard Roosevelt

ISBN
978-1-63239-239-8

\$150.00 US

2015

Book Size
6"x9"

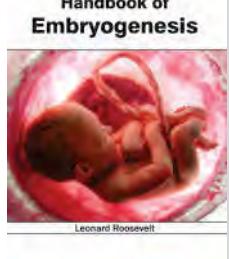
370pp.
Colored

Hardback

Developmental Biology

Encyclopedia of Embryogenesis

Embryogenesis is the biological process of fundamental importance for the growth of life. This book is a collection of views on contemporary trends in modern biology, emphasizing on gametogenesis, fertilization, early and/or delayed embryogenesis in animals, plants and other small organisms. Written by international experts, this book provides an introduction as well as in-depth review on classical as well as contemporary problems that pose a challenge in understanding how living organisms - take birth, grow, and reproduce at levels varying from molecular and cellular levels to individual level. Important topics covered are human embryogenesis, hox genes-master regulators of the animal bodyplan, plant somatic embryogenesis, genomic integrity of mouse embryonic stem cells, etc.



Leonard Roosevelt

ISBN
978-1-63239-390-6

\$120.00 US

2015

Book Size
6"x9"

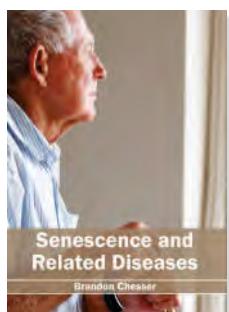
307pp.
Colored

Hardback

Developmental Biology

Handbook of Embryogenesis

This book is a collection of views on contemporary trends in modern biology, emphasizing on gametogenesis, fertilization, early and/or delayed embryogenesis in animals, plants and other small organisms. Written by international experts, this book provides an introduction as well as in-depth review on classical as well as contemporary problems that pose a challenge in understanding how living organisms - take birth, grow, and reproduce at levels varying from molecular and cellular levels to individual level. This book covers extensive topics such as somatic embryogenesis in forest plants, microspore embryogenesis, liquid-crystal in embryogenesis and pathogenesis of human diseases, etc.



Brandon Chesser

ISBN
978-1-63239-555-9

\$90.00 US

2015

Book Size
6"x9"

157pp.
Colored

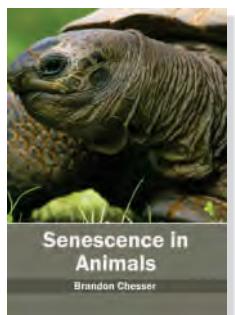
Hardback

Gerontology

Senescence and Related Diseases

Senescence can be described as the condition or procedure of deterioration with age. Gradual degradation of structure and functions of organs starts taking place in various forms of life with age. This phenomenon is known as senescence. Latest researches in the field have explained the molecular mechanisms of senescence with the help of cell structure system and experimental organisms. Senescence is believed to be responsible for a number of age-related disorders such as neurodegenerative disorders, cardiovascular disorders and cancer. This book presents a detailed account of diseases related to senescence. Prominent researchers and experts from the field of medical science have contributed to this book. The book provides insights into the recent developments and studies in this field which could lead to developing new approaches for anti-senescence interventions.

Biological Sciences



Gerontology

Brandon Chesser

ISBN
978-1-63239-556-6

\$160.00 US

2015

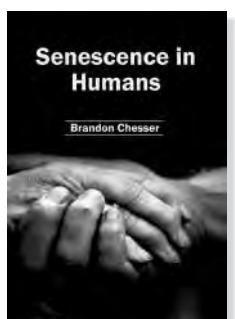
Book Size
6"x9"

429pp.
Colored

Hardback

Senescence in Animals

This book explains the phenomena related to ageing in animals. It covers various aspects relating to ageing and discusses the factors associated with it. It provides elucidative information regarding ageing processes and senescent changes that living creatures such as animals face. Renowned experts and researchers in the field of senescence have made their valuable contributions to this book. It aims to benefit students and researchers interested in this field.



Gerontology

Brandon Chesser

ISBN
978-1-63239-557-3

\$120.00 US

2015

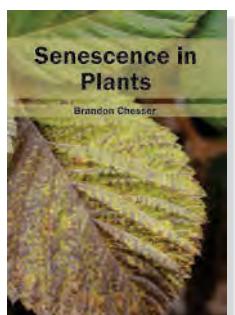
Book Size
6"x9"

278pp.
Colored

Hardback

Senescence in Humans

The phenomenon related to ageing in human beings is explained in this book. It covers various aspects relating to ageing and discusses the factors associated with it. Renowned experts and researchers in the field of senescence have made their valuable contributions to this book. It aims to benefit students and researchers interested in this field.



Gerontology

Brandon Chesser

ISBN
978-1-63239-558-0

\$90.00 US

2015

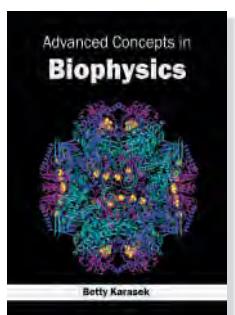
Book Size
6"x9"

179pp.
Colored

Hardback

Senescence in Plants

This book explains the phenomena related to ageing in plants. It covers various aspects relating to ageing and discusses the factors associated with it. It provides elucidative information regarding ageing processes and senescent changes that living creatures such as plants face. Renowned experts and researchers in the field of senescence have made their valuable contributions to this book. It aims to benefit students and researchers interested in this field.



Biophysics

Betty Karasek

ISBN
978-1-63239-015-8

\$150.00 US

2015

Book Size
8.5"x11"

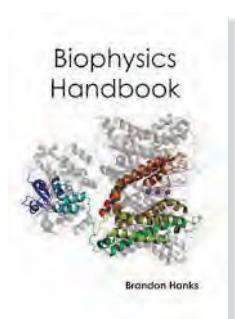
196pp.
Colored

Hardback

Advanced Concepts in Biophysics

Biophysics is an upcoming field of science which has undergone rapid development over the past few decades. This book covers a wide array of topics from the physiological as well as molecular aspects of life forms. Most of the researches introduced in this book cover new techniques and the applications of biophysics. The contributions made by the scientists and experts from across the globe focus on the major aspects of complexity of the biophysics and biological systems. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of biophysics.

Biophysics

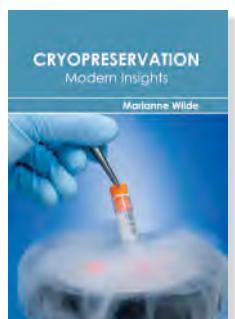


Brandon Hanks	ISBN 978-1-63239-103-2	\$110.00 US	2015	Book Size 6"x9"	231pp. Colored	Hardback
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Biophysics Handbook

Biophysics is a broad inter-disciplinary subject which covers branches of biology, physics and computational biology. This book provides insight into a wide variety of subjects which cover molecular, physiological and structural aspects. It is a compilation of the works of experts from all around the world emphasizing on important aspects of biophysics. It also highlights new techniques and their applications in varied fields. Though, the field of biophysics is in a phase of constant evolution with new innovations coming up every day, the topics that have been discussed in this book are current and practically applicable, especially in the fields of biology and related fields like medicine and agriculture.

Biophysics

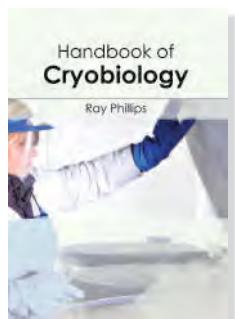


Marianne Wilde	ISBN 978-1-63239-135-3	\$110.00 US	2015	Book Size 6"x9"	238pp. Colored	Hardback
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Cryopreservation: Modern Insights

After a long gap of almost a decade, here is a book on cryopreservation. Lately, there have been certain severe tectonic shifts in cryobiology though not visible on the surface but will have significant impact on both the advancement of novel cryopreservation techniques and the future of cryobiology. This comprehensive book discusses the existing applications and emerging practical protocols for the purpose of cryopreservation along with the description of the novel cryobiological ideas. The topics have been divided into the following sections namely, Cryopreservation of Aquatic Species, Cryopreservation in Plants, and Equipment and Assays.

Biophysics

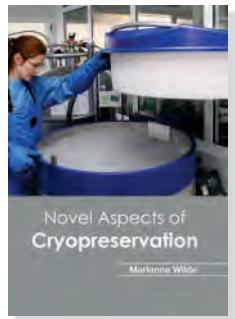


Ray Phillips	ISBN 978-1-63239-382-1	\$140.00 US	2015	Book Size 6"x9"	302pp. Colored	Hardback
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Handbook of Cryobiology

Significant researches on cryobiology have been included in this book. Lately, there have been certain severe tectonic shifts in cryobiology though not visible on the surface but will have significant impact on both the advancement of novel cryopreservation techniques and the future of cryobiology. This comprehensive book discusses the existing applications and emerging practical protocols for the purpose of cryopreservation along with the description of the novel cryobiological ideas. The topics discussed in this book are as follows: Basic Cryobiology and Kinetic Vitrification, Stem Cells and Cryopreservation in Regenerative Medicine, Human Assisted Reproduction Techniques (ART), and Farm/Pet/Laboratory Animal ART. It consists of contributions made by researchers as well as scientists from across the planet and will serve as an important source of reference for those interested in cryobiology.

Biophysics

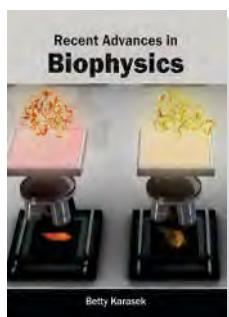


Marianne Wilde	ISBN 978-1-63239-480-4	\$120.00 US	2015	Book Size 6"x9"	248pp. Colored	Hardback
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Novel Aspects of Cryopreservation

This book presents significant aspects of cryopreservation. Lately, there have been certain severe tectonic shifts in cryobiology though not visible on the surface but will have significant impact on both the advancement of novel cryopreservation techniques and the future of cryobiology. This comprehensive book discusses the existing applications and emerging practical protocols for the purpose of cryopreservation along with the description of the novel cryobiological ideas. The topics have been loosely divided into three sections namely, Stem Cells and Cryopreservation in Regenerative Medicine, Human Assisted Reproduction Techniques (ART), and Farm / Pet / Laboratory Animal ART.

Biological Sciences



Betty Karasek

ISBN
978-1-63239-528-3

\$150.00 US

2015

Book Size
8.5"x11"

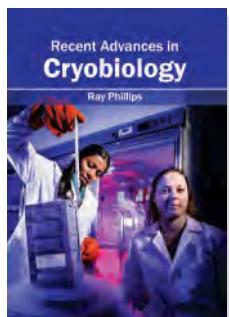
206pp.
Colored

Biophysics

Hardback

Recent Advances in Biophysics

This book covers a wide array of topics from the field of biophysics including physiological as well as molecular aspects of life forms. Most of the researches introduced in this book cover new techniques and applications of biophysics. The contributions made by scientists and experts from across the globe focus on the major aspects of the complexity of biophysics and biological systems. The aim of this book is to provide a guided approach to the core concepts of biophysics. The topics have been discussed from numerous perspectives, which further facilitate the reader's understanding of the concept.



Ray Phillips

ISBN
978-1-63239-529-0

\$120.00 US

2015

Book Size
6"x9"

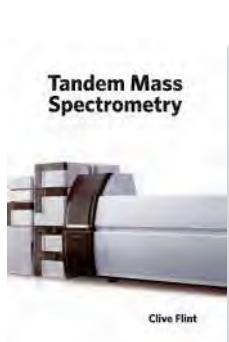
296pp.
Colored

Biophysics

Hardback

Recent Advances in Cryobiology

This book on cryobiology focuses on the recent developments and expansion in the field. Lately, there have been certain severe tectonic shifts in cryobiology though not visible on the surface but will have significant impact on both the advancement of novel cryopreservation techniques and the future of cryobiology. This comprehensive book discusses the existing applications and emerging practical protocols for the purpose of cryopreservation along with the description of the novel cryobiological ideas. The topics discussed in this book are as follows: Cryopreservation of Wildlife Genome (Terrestrial Animals), Cryopreservation of Aquatic Species, Cryopreservation of Plants, and Equipment and Assays. It consists of contributions made by researchers as well as scientists from across the planet and will be an important source for those interested in cryobiology.



Clive Flint

ISBN
978-1-63239-590-0

\$110.00 US

2015

Book Size
6"x9"

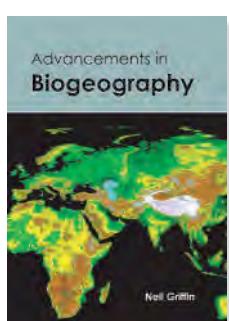
202pp.
Colored

Mass Spectroscopy

Hardback

Tandem Mass Spectrometry

Extensive information regarding the topic of tandem mass spectrometry has been presented in this book. It provides in-depth elucidation on the theory, description as well as the instrumentation of experimental strategies and MS/MS data interpretation for the structural analysis of important molecular compounds. Analysis of carbohydrates, drugs, metabolites and protein post-translation modifications are the major topics described in this book. It aims to serve as a valuable reference for various audiences including graduate students, professionals engaged in this field as well as general readers interested in the use of modern mass spectrometry for getting answers to crucial questions of prime importance in biological and chemical sciences.



Neil Griffin

ISBN
978-1-63239-033-2

\$150.00 US

2015

Book Size
6"x9"

375pp.
Colored

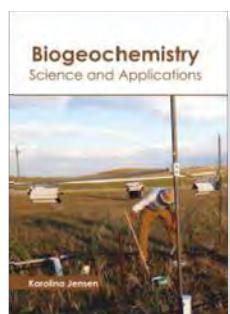
Biogeography

Hardback

Advancements in Biogeography

Biogeography involves dealing with the study of varied life forms present on the face of the Earth. This book is a compilation of research works of more than 30 scientific experts on biogeography from across the globe. It intends to elaborate on spatial and temporal variation of biological assemblages in relation to landscape intricacy and environmental changes. This book adopts four major themes: bio-geographic theory and tests of ideas and concepts; the territorial biogeography of individual taxa, biogeography of complex landscapes, and the deep-time evolutionary biogeography of macro-taxa. In addition, the book also presents new information about unusual landscapes, the natural history of a wide array of lesser known plant and animal species, and global conservation issues. It is well illustrated with various maps, graphics, and photographs, and provides significant information on various topics. It will work as a useful tool for experts and general public interested in global biogeography, taxonomy, development and conservation.

Earth and Planetary Sciences

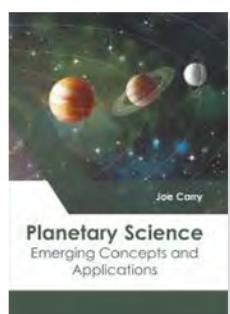


Earth and Planetary Sciences

Karolina Jensen	ISBN 978-1-63239-823-9	\$140.00 US	2017	Book Size 8.5"×11"	236pp. Colored	Hardback
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Biogeochemistry: Science and Applications

Biogeochemistry is an upcoming field of science that has undergone rapid development over the past few decades. It involves the study of the composition of the environment and the various chemical, geological and other processes related to it. This field of study also examines the cycles of chemical elements like carbon and nitrogen. There has been rapid progress in this field and its applications are finding their way across multiple industries. The aim of this book is to present researches that have transformed this discipline and aided its advancement. This book includes contributions of experts and scientists which will provide innovative insights into this field. It brings forth some of the most innovative concepts and elucidates unexplored aspects of biogeochemistry. The objective of this text is to give a general view of the different areas of biogeochemistry and its applications.

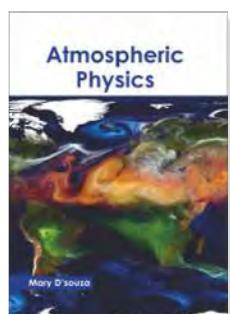


Earth and Planetary Sciences

Joe Carry	ISBN 978-1-63239-881-9	\$132.00 US	2017	Book Size 8.5"×11"	228pp. Colored	Hardback
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Planetary Science: Emerging Concepts and Applications

This book traces the progress of planetary science and highlights some of its key concepts and applications. Celestial bodies like planets, moons, gas giants, micrometeoroids, etc. are extensively studied under planetary science. It also involves the study of planetary systems like the solar system. Over the years, this field has evolved from astronomy and earth science to form several other sub-fields like planetary geology, atmospheric science, exoplanetology, etc. This text strives to provide a fair idea about this discipline and to help develop a good understanding of planetary science and its related fields. The various studies that are constantly contributing towards advancing technologies and evolution of planetary science are examined in detail. Those in search of information to further their knowledge will be greatly assisted by this book. It will help the readers in keeping pace with the rapid changes in this field.

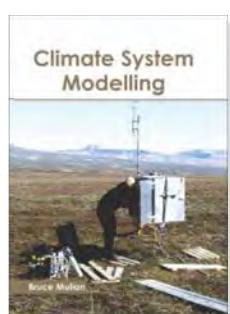


Atmospheric Sciences

Mary D'souza	ISBN 978-1-63239-854-3	\$135.00 US	2017	Book Size 8.5"×11"	235pp. Colored	Hardback
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Atmospheric Physics

Atmospheric physics is a vital part of atmospheric sciences. It deals with the study of the atmosphere by applying the laws of physics. It aims at modeling the atmosphere of different planets, especially earth, by using radiation budget, fluid flow equations, energy transfer processes, etc. It uses the elements of cloud physics, climatology, spatial statistics, scattering theory, remote sensing, etc. to study the atmosphere and model weather systems. This book unravels the recent studies in the field of atmospheric physics. The objective of this text is to give a general view of the different areas of atmospheric physics and its applications. The various studies that are constantly contributing towards advancing technologies and evaluations of this field are also examined in detail. It is a compilation of chapters that discuss the most vital concepts and emerging trends in this field. This text is a resource guide for experts as well as students. It will help the readers in keeping pace with the rapid changes in this area.



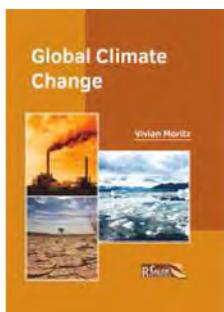
Climate and Weather

Bruce Mullan	ISBN 978-1-63239-852-9	\$142.00 US	2017	Book Size 8.5"×11"	241pp. Colored	Hardback
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Climate System Modelling

Climate Models aim to study the varied aspects of climate such as atmosphere, ice, oceans, etc. through quantitative methods to better understand our present climate as well as make future predictions. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field. The text elaborately discusses the various models that are used for climate modeling. It aims to equip students and experts with the advance topics and upcoming concepts in this area. Through this book, we attempt to further enlighten the readers about the new concepts in this field.

Earth and Planetary Sciences

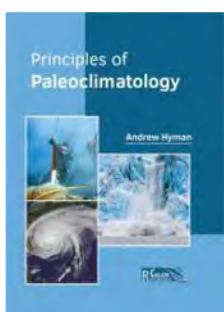


Climate and Weather

Vivian Moritz | ISBN 978-1-63239-851-2 | \$150.00 US | 2017 | Book Size 7.75"×10.5" | 258pp. Colored | Hardback

Global Climate Change

Global climate change is an extensive field of study focusing on the changes and alterations that takes place in the statistical distribution of weather patterns over a period of time. This book elucidates the concepts and innovative models around prospective developments with respect to this discipline. It aims to present a plethora of dimensions regarding global climate change to the readers like its various causes and techniques to combat that. The book sheds light on the various activities of humans causing climate change and global warming in detail. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject. It will serve as a resource guide for climatologists, environmentalists, researchers, professionals and students engaged in this field.



Climate and Weather

Andrew Hyman | ISBN 978-1-63239-853-6 | \$140.00 US | 2017 | Book Size 7.75"×10.5" | 239pp. Colored | Hardback

Principles of Paleoclimatology

The study of the weather and weather patterns enable researchers to record and analyze climate change as it unfolds in a particular region over a period of time. This research helps in adding great detail to the evolutionary history of the earth when extreme climatic changes occurred. Paleoclimatology relies on fossils that are trapped in the earth's surface, such as sediments, ice sheets, corals and tree rings which reveal the climatic identity of the region through its inner structure. This book provides significant information of this discipline to help develop a good understanding of paleoclimatology and related fields. It includes some of the vital pieces of work being conducted across the world on various topics related to this field. This book is a resource guide for experts as well as students. Those in search of information to further their knowledge will be greatly assisted by this book.

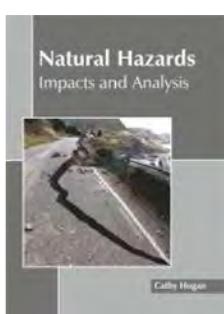


Natural Disasters

Cathy Hogan | ISBN 978-1-63239-895-6 | \$142.00 US | 2017 | Book Size 7"×10" | 244pp. Colored | Hardback

Disaster Management: Challenges and Mitigation Techniques

Disaster management is concerned with minimizing the adverse effects of natural as well as manmade disasters. This involves devising strategies and developing programs to mitigate the loss to life and other assets. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the field of disaster management. The objective of this text is to give a general view of the different areas of this field, and its applications. It will serve as a reference to a broad spectrum of readers including researchers, students and professionals associated with disaster management across various levels.



Natural Disasters

Cathy Hogan | ISBN 978-1-63239-868-0 | \$135.00 US | 2017 | Book Size 8.5"×11" | 233pp. Colored | Hardback

Natural Hazards: Impacts and Analysis

Natural hazards are the events occurring in nature which affect the civilization and environment in a harmful way. The two main types of natural hazards are geographical hazards like earthquakes, coastal erosion, cyclones, droughts, etc. and biological hazards like plague, infections, diseases, etc. This text discusses the different types of natural disasters in a detailed manner. It also gives thorough insights about their causes and effects on environment. Different approaches, evaluations, methodologies and advanced studies on the impacts and analysis of natural hazards have been included in this text. Scientists and students actively engaged in this subject will find the book full of crucial and unexplored concepts. It is a complete source of knowledge on the present status of this important field.

Earth and Planetary Sciences

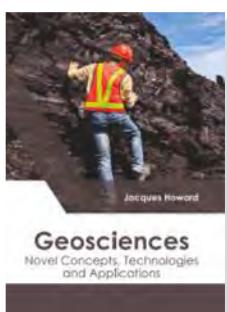


Remote Sensing

Matt Weilberg	ISBN 978-1-63239-891-8	\$132.00 US	2017	Book Size 7"×10"	226pp. Colored	Hardback
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Remote Sensing: Technology and Applied Principles

Remote sensing has developed by leaps and bounds in the 20th century. This has helped in developing efficient and reliable navigation technologies, weather predictions that benefit agriculture, aquaculture, disaster warning, etc. The objective of this book is to give a general view of the different areas of remote sensing, and its applications. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. This book discusses the advanced technologies and applied principles in the field of remote sensing. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of remote sensing.

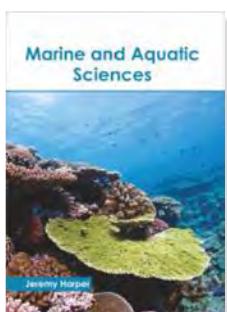


Geology & Geophysics

Jacques Howard	ISBN 978-1-63239-867-3	\$145.00 US	2017	Book Size 8.5"×11"	257pp. Colored	Hardback
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Geosciences: Novel Concepts, Technologies and Applications

Geoscience is an interdisciplinary field of study. It employs tools from varied fields such as mathematics, physics etc. to form a better understanding of the diverse aspects such as biosphere, hydrosphere, atmosphere and other related aspects. This book contains some path-breaking studies in the field of geoscience. It traces the progress of this field and highlights some of its key concepts and applications. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. This book is appropriate for student seeking detailed information in this area as well as for experts. The readers would gain knowledge that would broaden their perspective about geoscience.

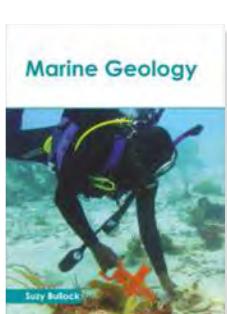


Oceanography

Jeremy Harper	ISBN 978-1-63239-848-2	\$142.00 US	2017	Book Size 8.5"×11"	242pp. Colored	Hardback
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Marine and Aquatic Sciences

The disciplines of marine and aquatic science deal with the regulation and promotion of aquatic life and the ecological regions that encompass the aquatic ecosystem, the limnological and hydrological mechanisms at work in these ecosystems, and the impact of human activity in these areas. These fields branch out into various sub-fields such as marine biology, marine chemistry, oceanography and hydrology. This book on marine and aquatic sciences discusses topics related to climate change and water content on the earth's surface and the effect of wastewater and other pollutants to marine life. It covers important aspects such as principles related to aquatic sciences, conservation and hydrographical practices. Different approaches, evaluations, methodologies and advancements in this field have also been included. This book aims to equipped students and experts with the advanced topics and upcoming concepts in this area.



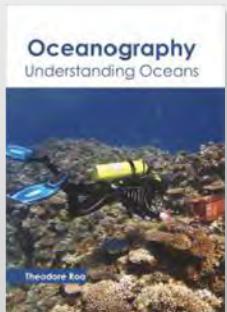
Oceanography

Suzy Bullock	ISBN 978-1-63239-849-9	\$150.00 US	2017	Book Size 8.5"×11"	265pp. Colored	Hardback
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Marine Geology

Marine geology is an emerging field of study which is highly beneficial in understanding the formation of sea floor and plate tectonics. This field is interdisciplinary in nature as it studies the structure and history of the ocean floor using different branches of study like geophysics, paleontology, etc. It is closely related to physical oceanography. This book is an important source of information as it provides its reader a comprehensive account of marine geology. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study. This book discusses the fundamentals as well as modern approaches of this field. Scientists and students actively engaged in the area of marine geology will find this book full of crucial and explored concepts.

Oceanography



Theodore Roa

ISBN
978-1-63239-850-5

\$150.00 US

2017

Book Size
8.5"×11"

260pp.
Colored

Hardback

Oceanography: Understanding Oceans

The aim of this book is to present researches that have transformed the discipline of oceanography, which deals with the study of ocean. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. The text highlights important dimensions of oceanography like ecosystem dynamics, ocean currents, waves, plate tectonics, etc. which are important for the readers to get a holistic understanding of this field of study. This book brings forth some of the most innovative concepts and modern applications to elaborate the unexplored aspects of oceanography. This book is an essential guide for both academicians and those who wish to pursue this discipline further. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

Earth and Planetary Sciences

Earth and Planetary Science
John Wayne



Earth and Planetary Sciences

John Wayne

ISBN
978-1-63239-723-2

\$155.00 US

2016

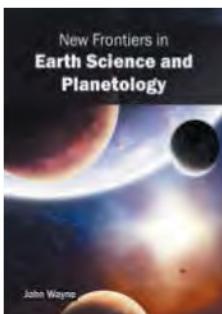
Book Size
8.5"x11"

299pp.
Colored

Hardback

Earth and Planetary Science

Earth and planetary science refers to that field of science which deals with the scientific study of the planets, moons and other celestial bodies, particularly in our solar system. Its objective is to understand their structure, dynamics, evolution, and their history. Scientists use physics, chemistry, biology, chronology and mathematics to analyse these planets, especially earth. This book provides comprehensive insights into this field and the various studies that are constantly contributing towards advancing technologies and evolution of this area are examined in detail. Those with an interest in the subject of earth and planetary science will find this text very resourceful. Coherent flow of topics, reader-friendly language and extensive material provided in this book will make it a beneficial source of knowledge.



Earth and Planetary Sciences

John Wayne

ISBN
978-1-63239-704-1

\$155.00 US

2016

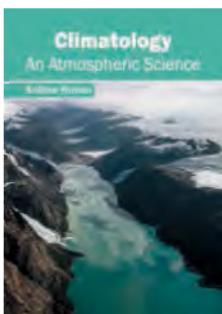
Book Size
8.5"x11"

296pp.
Colored

Hardback

New Frontiers in Earth Science and Planetology

Planetology refers to the study of planets, especially earth; meteoroids, planetary systems, primarily the ones in our Solar system and other celestial bodies. It deals with studying the composition, formation, dynamics and history of these celestial bodies. It collaborates earth science, astronomy, planetary geology, hydrology, atmospheric science, glaciology, exoplanetology, among many other disciplines. This book traces the recent progresses made in this field. It brings forth some of the most innovative concepts and elucidates the unexplored aspects of this subject. The various advancements of planetology are glanced at and their applications as well as ramifications are looked at in a detailed manner. Those with an interest in the field of planetology and earth science will find this book helpful. It will prove to be a beneficial guide for students, planetologists, climatologists, astronomers, engineers and researchers alike.



Climate and Weather

Andrew Hyman

ISBN
978-1-63239-632-7

\$132.00 US

2016

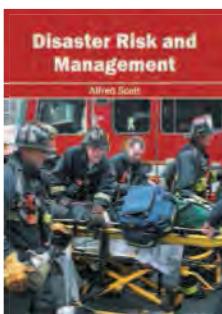
Book Size
8.5"x11"

204pp.
Colored

Hardback

Climatology: An Atmospheric Science

Climate is the fixed or slightly varying pattern of weather of an area prevailing over a period of time. Climatology attempts to explain the impact of climatic conditions, to assist people in planning and building infrastructure and issuing warnings about potential dangers. Paleoclimatology, historical climatology, and paleotempestology are the different approaches used for determining the past and future global climatic patterns. Since climates are dynamic and complex, they are difficult to deal with. Constant in-depth research and efforts are required on the part of climatologists to deal with these frequently varying patterns. This book presents the research and studies performed by experts across the globe. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. It will provide comprehensive knowledge to the readers. This text will benefit climatologists, environmentalists, atmospheric scientists, professional and students alike.



Disasters

Alfred Scott

ISBN
978-1-63239-709-6

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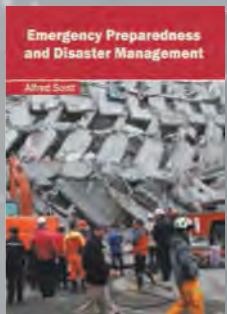
Hardback

Disaster Risk and Management

Disaster management tries to provide information about the types of disaster risks, how to respond and prepare for them. It includes sub-disciplines like disaster risk reduction, mitigation and preparedness. This book includes studies related to disaster risk governance and resilience, global change, disaster risks, human dimensions of disaster risk, etc. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of managing disaster risk. This book attempts to understand the multiple branches that fall under the discipline of disaster management and how such concepts have practical applications. It provides comprehensive insights into this field while discussing the fundamental as well as modern approaches. Researchers and students in this field will be assisted by this book.

Earth and Planetary Sciences

Disasters



Alfred Scott

ISBN
978-1-63239-721-8

\$155.00 US

2016

Book Size
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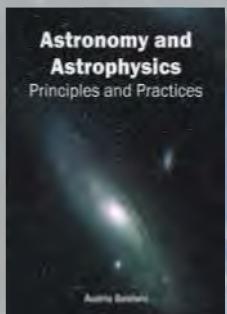
301pp.
Colored

Hardback

Emergency Preparedness and Disaster Management

Disaster management is a field which deals with minimizing the effects of disasters and casualties. It refers to planning and forming such methods that can help in predicting and controlling risks associated with disasters, such as earthquakes, floods, hurricanes, fire, industrial accidents, etc. This book covers in detail some existent theories and innovative concepts revolving around emergency preparedness and disaster management. It is a valuable compilation of topics, ranging from the basic to the most complex advancements in this field. For all the readers who are interested in this field, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding. It aims to serve as a resource guide for students and experts alike and contribute to the growth of this discipline.

Astronomy & Astrophysics



Audria Baldwin

ISBN
978-1-63239-737-9

\$145.00 US

2016

Book Size
8.5"x11"

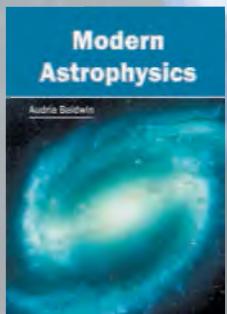
256pp.
Colored

Hardback

Astronomy and Astrophysics: Principles and Practices

Astronomy as a branch of science refers to the study of celestial bodies like planets, stars, galaxies, asteroids, etc. and the processes that take place in the universe. Astrophysics is a sub-field of astronomy which uses the elements of physics and chemistry to study the nature of heavenly bodies like extra solar planets, cosmic wave background, sun, stars, etc. This book will discuss in detail the principles of both of these branches. It will bring forth some of the most innovative concepts and elucidate the unexplored aspects of this field. Different approaches, evaluations, methodologies and advanced studies on these subjects have been included in this text. It also consists of contributions made by scientists from across the globe. Those in search of information to further their knowledge will be greatly assisted by this book. It will prove to be a beneficial text for astrophysicists, astronomers, climatologists, researchers and students.

Astronomy & Astrophysics



Audria Baldwin

ISBN
978-1-63239-736-2

\$140.00 US

2016

Book Size
8.5"x11"

230pp.
Colored

Hardback

Modern Astrophysics

Astrophysics is the discipline that studies all the important aspects related to heavenly bodies, galaxies and universe. These properties are examined by applying the combination of physics and chemistry. Broadly defined characteristics that are mainly studied under this area of study include chemical composition, luminosity, density and temperature. It also covers properties related to dark matter and black holes. Observational astrophysics is concerned with recording data related to quantitative implications whereas theoretical astrophysics measures data related to physical models. The aim of this book is to present researches that have transformed this discipline and aided its advancement. The case studies included herein will serve as an excellent guide to develop a comprehensive understanding of astrophysics. It will provide comprehensive knowledge to the researchers, students and experts associated with modern astrophysics.

Earth and Planetary Sciences

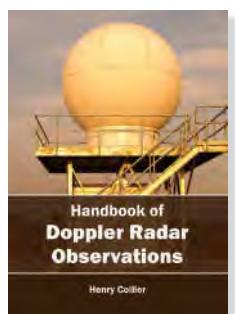


Earth and Planetary Sciences

John Wayne | ISBN 978-1-63239-155-1 | \$120.00 US | 2015 | Book Size 6"x9" | 268pp. Colored | Hardback

Earth and Environmental Sciences

We have come to face a situation where new environmental troubles arise every day and we need to make some fast and binding decisions. In many cases information regarding geological processes is crucial to find out an appropriate explanation. Earth and environmental sciences is a dynamic field in which new problems arise with time and the old ones often re-emerge. The main aim of this book is to present the readers with a broad overview of Earth and Environmental Sciences by analyzing geology, geochemistry, seismology and hydrology. We are hopeful that this recent research will offer readers with a helpful foundation for discussing and analyzing specific environmental issues and will help in generating new techniques to tackle problems.

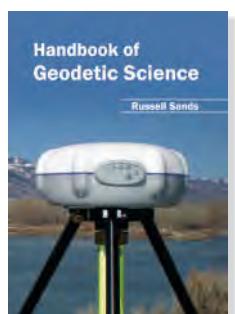


Earth and Planetary Sciences

Henry Collier | ISBN 978-1-63239-384-5 | \$110.00 US | 2015 | Book Size 6"x9" | 214pp. Colored | Hardback

Handbook of Doppler Radar Observations

Doppler radar systems have been extremely helpful in enhancing our perception and monitoring capabilities of atmospheric phenomenon. Scientists and practitioners are using its methods and radio detecting and finding techniques, like wind profilers and others, frequently for analysis and operations. Some of the topics discussed in this book are – extreme weather supervision, wind and turbulence retrievals, estimation of precipitation and nowcasting, and the volcanological applications of Doppler radar. This book is appropriate for graduate students who are seeking an initiation in the area or for experts wanting to refresh their knowledge and information on the same.

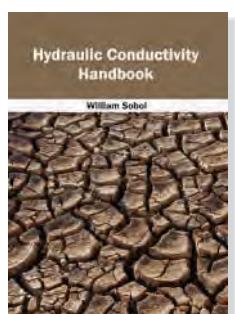


Earth and Planetary Sciences

Russell Sands | ISBN 978-1-63239-399-9 | \$150.00 US | 2015 | Book Size 6"x9" | 351pp. Colored | Hardback

Handbook of Geodetic Science

Geodetic science is described as a branch of earth sciences and applied mathematics. Space geodetic techniques like global navigation satellite systems (GNSS), very long baseline interferometry (VLBI), satellite gravimetry and altimetry, and GNSS reflectometry & radio occultation, can precisely measure even the minute changes in the Earth's shape, its rotation and gravitational pull; and are capable of calculating mass changes in earth's system to great accuracy as well. This book provides an insight into the latest experiments and evolution in space geodetic methods and theories, including GNSS, VLBI, gravimetry, geoid, geodetic atmosphere, geodetic geophysics and geodetic mass transport related with ocean, hydrology, cryosphere and solid-Earth. The book will act as a fine guide on geodetic methods to engineers, scientists and user community as well.



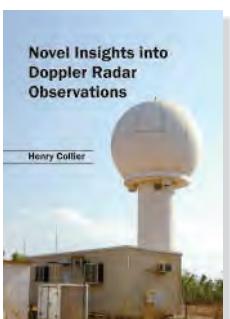
Earth and Planetary Sciences

William Sobol | ISBN 978-1-63239-421-7 | \$160.00 US | 2015 | Book Size 6"x9" | 427pp. Colored | Hardback

Hydraulic Conductivity Handbook

This book consists of a complete analysis of the latest measurement methods for estimating hydraulic conductivity. This has been accomplished by covering several aspects of hydraulic conductivity. For instance, the topics covered within the book include the importance of hydraulic conductivity, hydraulic conductivity and plant systems, conclusions arrived at by field methods, conclusions arrived at by mathematical and laboratory techniques, and hydraulic conductivity and modeling. These topics have been elaborately explained with the help of case studies and facts. Hence, the book contains a mixture of varied and important aspects of this field as noted by many experts from different countries.

Earth and Planetary Sciences

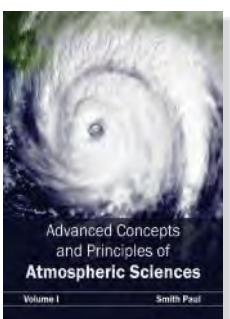


Earth and Planetary Sciences

Henry Collier	ISBN 978-1-63239-482-8	\$120.00 US	2015	Book Size 6"x9"	279pp. Colored	Hardback
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Novel Insights into Doppler Radar Observations

Doppler radar systems have been extremely helpful in enhancing our perception and monitoring capabilities of atmospheric phenomenon. Some of the topics discussed in this book are – extreme weather supervision, wind and turbulence retrievals, estimation of precipitation and nowcasting, and the volcanological applications of Doppler radar. This book is appropriate for graduate students who are seeking an initiation in the area or for experts wanting to refresh their knowledge and information on the same.



Atmospheric Sciences

Smith Paul	ISBN 978-1-63239-013-4	\$150.00 US	2015	Book Size 8.5"x11"	217pp. Colored	Hardback
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Advanced Concepts and Principles of Atmospheric Sciences: Volume I

This book is a compilation of chapters that discuss the most recent concepts and advances in the field of atmospheric sciences. The topics discussed include study of impact, occurrences, and other aspects of atmospheric science. The chapters included are written by specialists and are very specific researches. Case studies from multiple countries have also been discussed in this book, in order to provide a global perspective of the topic. This book will provide atmosphere science professionals with a solid grounding in this subject so that they can actively involve and participate with the subject in future.

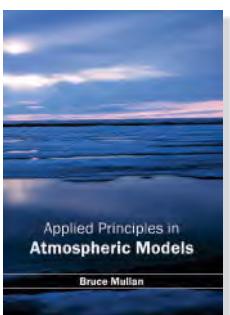


Atmospheric Sciences

Smith Paul	ISBN 978-1-63239-014-1	\$150.00 US	2015	Book Size 8.5"x11"	203pp. Colored	Hardback
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Advanced Concepts and Principles of Atmospheric Sciences: Volume II

This book is a compilation of chapters that discuss the most recent concepts and advances in the field of atmospheric sciences. The topics discussed include study of impact, occurrences, and other aspects of atmospheric science. The chapters included are written by specialists and are very specific researches. Case studies from multiple countries have also been discussed in this book, in order to provide a global perspective of the topic. This book will provide atmosphere science professionals with a solid grounding in this subject so that they can actively involve and participate with the subject in future.



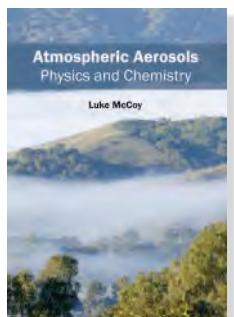
Atmospheric Sciences

Bruce Mullan	ISBN 978-1-63239-078-3	\$140.00 US	2015	Book Size 6"x9"	308pp. Colored	Hardback
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Applied Principles in Atmospheric Models

This comprehensive content and reference work on atmospheric models covers not only the methods for numerical modeling, but also the related fields of assimilation and predictability. It includes distinct facets of environmental computer modeling, also the historical sketch of the subject radiative transfer equation and applications, approximation to land surface and atmospheric dynamics and data assimilation. Every single chapter is drafted by prominent professionals in their respective field. The authors have tried to provide extensive knowledge on several applications of atmospheric paradigm with the help of models.

Earth and Planetary Sciences

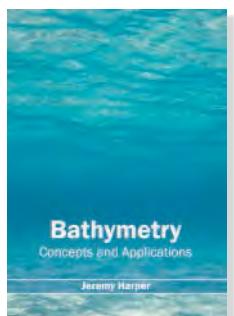


Atmospheric Sciences

Luke McCoy | ISBN 978-1-63239-082-0 | \$110.00 US | 2015 | Book Size 6"x9" | 219pp. Colored | Hardback

Atmospheric Aerosols: Physics and Chemistry

This book discusses the characteristics of atmospheric aerosols and their effect on climatic conditions. Ground-based, air-borne and satellite data have been collected and analyzed. The measurement techniques and atmospheric conditions are provided in a detailed account. The book also includes extensive information on the organic and inorganic elements of atmospheric aerosol. The author explicates how aerosol particles are chemically and physically processed, temporally and spatially distributed, emitted, formed and transported. This book caters to the need of researchers to resolve several issues related to the complex interaction between atmospheric aerosols and climatology.

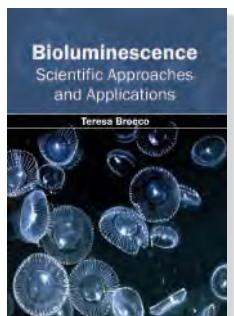


Atmospheric Sciences

Jeremy Harper | ISBN 978-1-63239-086-8 | \$90.00 US | 2015 | Book Size 6"x9" | 159pp. Colored | Hardback

Bathymetry: Concepts and Applications

Bathymetry is the technique used to measure and explore the depth of the water bodies covering the majority of the surface of the earth. This book offers several developments which occurred in bathymetry with the help of acoustics, electromagnetic and radar sensors. In addition, application of all these developments from gas seeps, coral colonies at the coastal bed to huge reservoirs and palynology is also discussed. This book compiles the works of many international scientists and researchers who have worked in varied conditions all around the world.

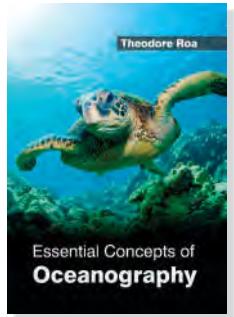


Atmospheric Sciences

Teresa Brocco | ISBN 978-1-63239-102-5 | \$90.00 US | 2015 | Book Size 6"x9" | 201pp. Colored | Hardback

Bioluminescence: Scientific Approaches and Applications

To observe and study the growth and inhibitions of tumors in laboratory animals, luciferase - luciferin proteins, ATP, genes and all the complex interactions are studied by assessing bioluminescence intensity and the optimum use of sophisticated camera systems. This book concentrates on the applications of bioluminescence imaging (BLI) technique in pre-clinical oncology. It discusses new methods to rapidly spot the impurities at the initial level using the Milliflex system. In addition, the use of bioluminescence resonance energy transfer (BRET) technology to keep a check on protein interaction in living cells is also discussed. Bioluminescent proteins are also used for ultra sensitive optical imaging in living animals, accelerating pH-tolerant luciferase for brighter in-vivo image, and oscillation properties in bacterial bioluminescence. This book presents rare and exceptional studies of seasonal characteristics of oceanic bioluminescence and several other bioluminescence producing organisms.



Atmospheric Sciences

Theodore Roa | ISBN 978-1-63239-316-6 | \$90.00 US | 2015 | Book Size 6"x9" | 164pp. Colored | Hardback

Essential Concepts of Oceanography

The essential concepts of oceanography are descriptively discussed in this advanced book. Oceanography is a quintessential interdisciplinary science and because of its unique setting inside a fluid environment, it makes connections highly effective. These ocean connections have been well elucidated in this book and it reflects a quite explicit multi-environmental and multi-disciplinary character. This book comprises of information regarding distinct topics under extremely distinct settings, with both focused as well as broad-view approaches. It lays stress on the idea that there is a need to comprehend the various minor perspectives in order to understand the bigger picture of the overall mechanism of the ocean.

Earth and Planetary Sciences

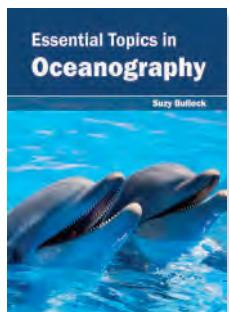


Atmospheric Sciences

Terry Santiago | ISBN 978-1-63239-318-0 | \$140.00 US | 2015 | Book Size 6"x9" | 341pp. Colored | Hardback

Essential Cosmology

In this book, extensive information regarding the field of cosmology has been provided. During the past few years, it has been witnessed that the field of cosmology has experienced a metamorphosis. From primarily being a search for three essential numbers – the cosmological constant, the expansion rate and deceleration parameter, it has now transformed into a precision science. This scientific domain is expected to unveil even the minutest details of fundamental processes that took place during initial stages of the Universe and also of the mechanisms driving the cosmic expansion and the progress of structures at the largest scales. For the achievement of these aims, we not only need formulation of novel observational and experimental strategies but also an in-depth comprehension of the underlying theoretical frameworks. Veteran researchers and scientists from across the globe have contributed significant information in this book.

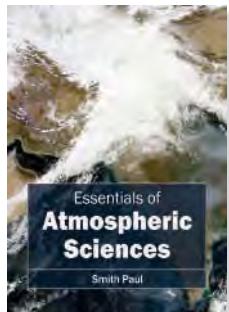


Atmospheric Sciences

Suzy Bullock | ISBN 978-1-63239-323-4 | \$150.00 US | 2015 | Book Size 8.5"x11" | 203pp. Colored | Hardback

Essential Topics in Oceanography

This book on oceanography is a compilation of topics presented through case studies written by specialists, who have been a part of ocean related researches all across the globe. The content of this book will provide the reader with a close insight into some significant aspects of oceanography, such as effects of tidal range variability, salinity measurement etc. The case studies included in this book present some dynamic views and revolutionary concepts which will contribute to the development of the discipline.

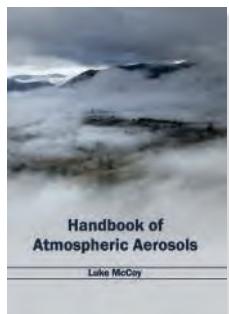


Atmospheric Sciences

Smith Paul | ISBN 978-1-63239-328-9 | \$150.00 US | 2015 | Book Size 8.5"x11" | 224pp. Colored | Hardback

Essentials of Atmospheric Sciences

Atmospheric sciences refer broadly to the study of atmosphere. This subject deals with the study of the impact and effects of different systems on the atmosphere and vice versa. Understandably, atmospheric sciences, as a branch has been growing phenomenally and rapidly. This book discusses all the latest developments and current research that's being conducted in the field. It consists of researches and information contributed by some of the most well-known professionals.



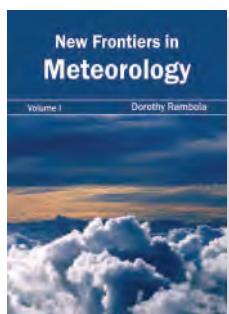
Atmospheric Sciences

Luke McCoy | ISBN 978-1-63239-369-2 | \$120.00 US | 2015 | Book Size 6"x9" | 284pp. Colored | Hardback

Handbook of Atmospheric Aerosols

This book discusses the characteristics of atmospheric aerosols and their effects on climatic conditions. Ground-based, air-borne and satellite data have been collected and analyzed. It also includes extensive information on the organic and inorganic elements of atmospheric aerosol. The author explicates how aerosol particles are chemically and physically processed, temporally and spatially distributed, emitted, formed and transported. This book caters to the need of researchers to resolve several issues related to the complex interaction between atmospheric aerosols and climatology.

Earth and Planetary Sciences

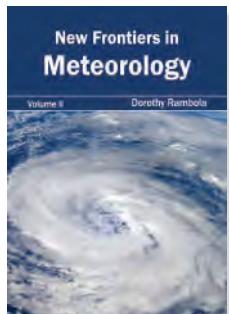


Atmospheric Sciences

Dorothy Rambola | ISBN 978-1-63239-475-0 | \$150.00 US | 2015 | Book Size 8.5"x11" | 212pp. Colored | Hardback

New Frontiers in Meteorology: Volume I

This book provides up-to-date knowledge and the latest information, concepts and analytical studies regarding some of the significant topics in the field of meteorology. The reason for incorporating such crucial topics in this book is to create more interest about the unknowns of the field. Some of the concepts that are included in this book are innovative in their approach and relatively contemporary. A few case studies have also been included in this book to illustrate the topics better and provide a greater conceptual understanding of the topic. This book would prove to be a resourceful guide, to both students and experts alike.

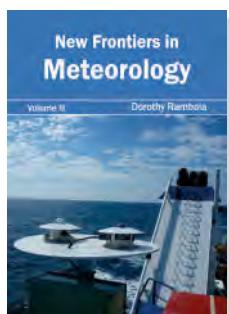


Atmospheric Sciences

Dorothy Rambola | ISBN 978-1-63239-476-7 | \$150.00 US | 2015 | Book Size 8.5"x11" | 212pp. Colored | Hardback

New Frontiers in Meteorology: Volume II

This book provides up-to-date knowledge and the latest information, concepts and analytical studies regarding some of the significant topics in the field of meteorology. The reason for incorporating such crucial topics in this book is to create more interest about the unknowns of the field. Some of the concepts that are included in this book are innovative in their approach and relatively contemporary. A few case studies have also been included in this book to illustrate the topics better and provide a greater conceptual understanding of the topic. This book would prove to be a resourceful guide, to both students and experts alike.

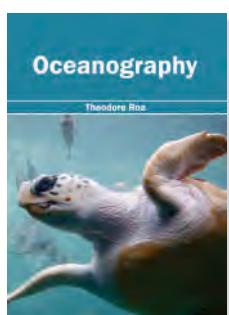


Atmospheric Sciences

Dorothy Rambola | ISBN 978-1-63239-477-4 | \$150.00 US | 2015 | Book Size 8.5"x11" | 212pp. Colored | Hardback

New Frontiers in Meteorology: Volume III

This book provides up-to-date knowledge and the latest information, concepts and analytical studies regarding some of the significant topics in the field of meteorology. The reason for incorporating such crucial topics in this book is to create more interest about the unknowns of the field. Some of the concepts that are included in this book are innovative in their approach and relatively contemporary. A few case studies have also been included in this book to illustrate the topics better and provide a greater conceptual understanding of the topic. This book would prove to be a resourceful guide, to both students and experts alike.



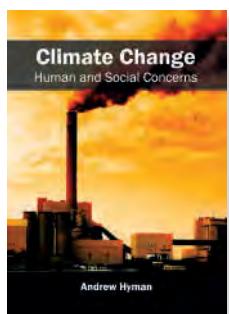
Atmospheric Sciences

Theodore Roa | ISBN 978-1-63239-488-0 | \$150.00 US | 2015 | Book Size 6"x9" | 362pp. Colored | Hardback

Oceanography

This book is a single binding account covering all the major aspects of oceanography. Arthur C. Clarke once said, "How inappropriate to call this planet Earth when it is quite clearly Ocean". The origin of life stems from the oceans and the entire diversity of life across the world is modulated by marine and oceanic processes. All the processes ranging from micro-scale, like coastal processes, to macro-scale, like those in the seas, the oceans and the marine life, play a vital role in maintaining the equilibrium of this planet, both from chemical as well as physical viewpoints. Since the beginning of time, the exploration and discovery of world's oceans has brought advancements and immense knowledge to humankind. The metaphors of Jason and Ulysses represent the cultural progress achieved through these discoveries and explorations. Contemporary oceanographic research portrays one of the most crucial frontiers of knowledge about Earth, depending on the exploration of oceans. Therefore, it is closely related to the advancement of novel technologies. Additionally, other social and scientific disciplines can also contribute several basic inputs for a conclusive elucidation of the complete ocean ecosystem. Therefore, this book will greatly help the readers to learn better ways to preserve the Blue Planet: Our Earth.

Earth and Planetary Sciences

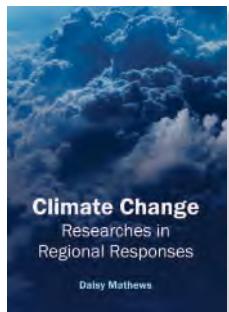


Climate and Weather

Andrew Hyman	ISBN 978-1-63239-114-8	\$120.00 US	2015	Book Size 6"x9"	298pp. Colored	Hardback
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Climate Change: Human and Social Concerns

Anomalous climatic effects like higher temperatures, intense rainfall and floods, constant and severe droughts have now reached a whole new level. Without proper adaptation methods, climate change is expected to worsen the vulnerability of society, pose serious risk to food security and human health, threaten the lives of growing urban population and obstruct in the aim of achieving sustainable development. By emphasizing on a vast range of subjects and involving a number of reputed scholars, this book discusses the human and social dimensions of climate change and the topics usually overlooked or poorly understood by scholars and policymakers.

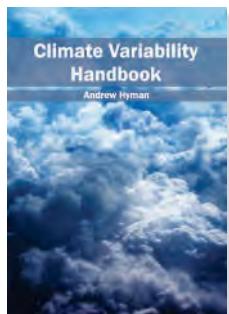


Climate and Weather

Daisy Mathews	ISBN 978-1-63239-115-5	\$120.00 US	2015	Book Size 6"x9"	254pp. Colored	Hardback
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Climate Change: Researches in Regional Responses

This book presents a descriptive account on the concepts of climate change and discusses research-focused information regarding its regional responses. Researchers from across the globe have contributed valuable information in this insightful book. This book discusses various topics related to this field like forecasting, measurements as well as observations of meteorological visibility, grids in numerical weather and climate models, etc. Updated in-depth information has been compiled in this book. The primary aim of this book is to serve as a valuable source of information for researchers, scientists, students, etc. interested in studying about the concepts of climate change and related topics.

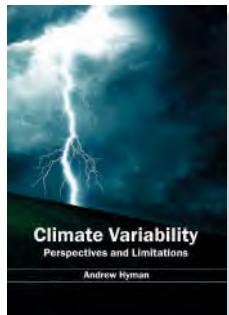


Climate and Weather

Andrew Hyman	ISBN 978-1-63239-116-2	\$110.00 US	2015	Book Size 6"x9"	212pp. Colored	Hardback
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Climate Variability Handbook

An elucidative study on climate variability has been provided in this book. With the increasing awareness about the adversities due to climatic change, interest is developing in the people to understand various aspects of climatic variability and its impact at regional levels. For those interested in climatic change management, it provides detailed information regarding the dynamics of climatic variability and will prove to be a valuable resource. It discusses innovative methods to supervise climatic changes, evaluating climate risks and forecasting the consequences, analysis of present status of the knowledge on the subject and available evidences. This book is easy to understand and easily accessible to practitioners, researchers, students and policy makers.

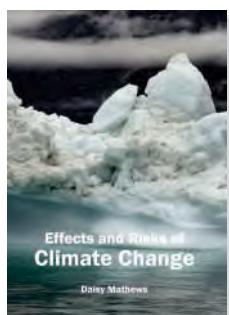


Climate and Weather

Andrew Hyman	ISBN 978-1-63239-117-9	\$110.00 US	2015	Book Size 6"x9"	204pp. Colored	Hardback
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Climate Variability: Perspectives and Limitations

This book provides an introduction to climatic variability, and also discusses numerous facets of climatic variability and change. All these facets; from diverse prospects varying from nature of low frequency atmospheric variability to the adaptation to climate variability and change are explained in the book. This book is accessible to students, teachers or researchers.



Climate and Weather

Daisy Mathews	ISBN 978-1-63239-167-4	\$110.00 US	2015	Book Size 6"x9"	224pp. Colored	Hardback
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Effects and Risks of Climate Change

Climate change is a significant and lasting change in the statistical distribution of weather patterns over periods ranging from decades to millions of years. The earth is the only planet where life exists. Hence, the field of climate control requires special attention to control the rise in atmospheric temperature by controlling the emission of greenhouse gases. There is a need to conserve natural resources and look for some alternative to these resources. The book provides basic information and facts about climate change and hydrological effects, related to melting ice caps and glaciers, rise in sea level, rise in temperature and increasing number of disasters. It also discusses latest technologies applied and adopted to reduce the impact of these changes.

Earth and Planetary Sciences

Climate and Weather

Mary D'souza

ISBN
978-1-63239-210-7

\$150.00 US

2015

Book Size
8.5"x11"

217pp.
Colored

Hardback

Encyclopedia of Atmospheric and Climate Sciences

Atmospheric and climate science is a broad field which studies the patterns and changes in the environment of earth. For all those who're interested in atmospheric and climatic changes, this book will prove to be an essential guide. It will provide comprehensive knowledge to both students and experts alike. The book brings forth contemporary researches and evolving concepts in the field. The case studies presented within elucidate the discipline with theory and applications.

Volume 01

Encyclopedia of
Atmospheric and
Climate Sciences



Mary D'souza

ISBN
978-1-63239-211-4

\$150.00 US

2015

Book Size
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214pp.
Colored

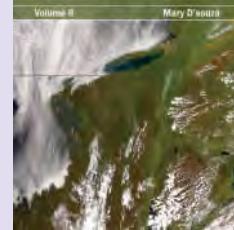
Hardback

Encyclopedia of Atmospheric and Climate Sciences

Atmospheric and climate science is a broad field which studies the patterns and changes in the environment of earth. For all those who're interested in atmospheric and climatic changes, this book will prove to be an essential guide. It will provide comprehensive knowledge to both students and experts alike. The book brings forth contemporary researches and evolving concepts in the field. The case studies presented within elucidate the discipline with theory and applications.

Volume 02

Encyclopedia of
Atmospheric and
Climate Sciences



Mary D'souza

ISBN
978-1-63239-212-1

\$150.00 US

2015

Book Size
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Volume 03

Encyclopedia of
Atmospheric and
Climate Sciences



Mary D'souza

ISBN
978-1-63239-213-8

\$150.00 US

2015

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Encyclopedia of Atmospheric and Climate Sciences

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Volume 04

Encyclopedia of
Atmospheric and
Climate Sciences



Mary D'souza

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\$150.00 US

2015

Book Size
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Hardback

Encyclopedia of Atmospheric and Climate Sciences

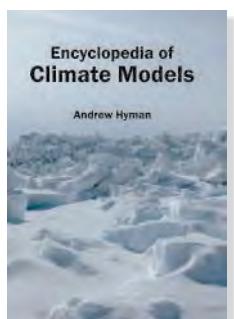
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Volume 05

Encyclopedia of
Atmospheric and
Climate Sciences



Earth and Planetary Sciences



Climate and Weather

Andrew Hyman

ISBN
978-1-63239-224-4

\$140.00 US

2015

Book Size
6"x9"

348pp.
Colored

Hardback

Encyclopedia of Climate Models

This book provides a collection of research studies done by various international scientists. These research works target our comprehension regarding physical environment for life on Earth. The studies within the book describe the recent developments in techniques and procedures for computer based simulation of environment variability. Planetary scale phenomena, regional ecology, effects of air pollution, floods and heat waves are some of the topics that it discusses. This book provides an insight to the modern methodologies and techniques used for a better understanding of the environment.



Climate and Weather

Dorothy Rambola

ISBN
978-1-63239-474-3

\$110.00 US

2015

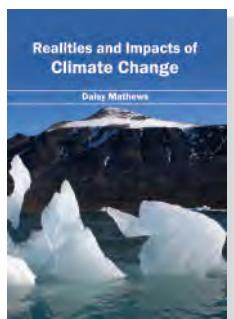
Book Size
6"x9"

207pp.
Colored

Hardback

New Frontiers in Hurricane Research

This book provides information regarding novel frontiers in the field of hurricane research. It offers a wealth of advanced information, ideas and analysis on some of the essential unexplored horizons in hurricane research. Topics comprise of numeric forecasting systems for tropical cyclone advancement, practice of remote sensing methods for tropical cyclone development, parametric surface wind model for tropical cyclones, micrometeorological examination of wind as a hurricane travel across Houston (US), meteorological passage of many tropical cyclones as they pass through the South China Sea, simulation modeling of evacuations by motorized vehicles in Alabama, impact of high stream-flow events on nutrient flow in post-hurricane periods, inspection of medical needs; both physical and psychological; of children in a post-hurricane frame and lastly the influence of two hurricanes on Ireland. Herein, the hurricanes which have been discussed comprise of Katrina, Ike, Isidore, Humberto, Debbie and Charley and many others in the North Atlantic along with a large number of tropical cyclones in South China Sea.



Climate and Weather

Daisy Mathews

ISBN
978-1-63239-527-6

\$140.00 US

2015

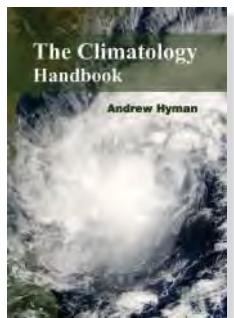
Book Size
6"x9"

308pp.
Colored

Hardback

Realities and Impacts of Climate Change

The earth is the only planet where life exists. The evolution of human life was only possible due to its favorable environmental conditions i.e. availability of water, oxygen and suitable temperature. Climate change is a significant and lasting change in the statistical distribution of weather patterns over periods ranging from decades to millions of years. Hence, the field of climate control requires special attention to control the rise in atmospheric temperature by controlling the emission of greenhouse gases. There is a need to conserve natural resources and look for some alternative to these resources. The book provides basic information and facts about climate change with special focus on its impact on vegetation, adapting rain fed agriculture, climate change assessment due to soil moisture change and adaptation to future climate change for crop farms. Additionally, latest technologies applied and adopted to reduce the impact of climate change are also discussed.



Climate and Weather

Andrew Hyman

ISBN
978-1-63239-593-1

\$150.00 US

2015

Book Size
6"x9"

398pp.
Colored

Hardback

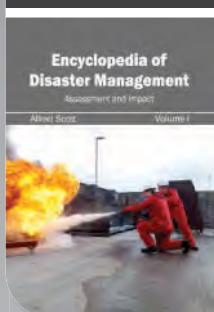
The Climatology Handbook

Climatology is described as the study of climate. It has acquired a much greater position than being considered an individual discipline which treats climate as a phenomenon that fluctuates only within specific boundaries defined by historical statistics. It has been observed that climate alters constantly under the influence of biological as well as physical forces. Therefore, climate cannot be studied in isolation. Rather, climatology requires inputs from diverse scientific disciplines that play their role in comprehending the extremely complicated system of Earth's climate. The current state of climatology has been described in this book. While it provides a wide perspective on climatology, it also acknowledges the regional standpoint which affects people's requirements from climatology. Aspects on the topic of climate change have also been described. It is widely evident these days that current work in climatology has unveiled discoveries which carry profound implications for social and economic policy. Keeping this in mind, the topics covered in this book provide acumen on the applications of various techniques learnt till date.

Earth and Planetary Sciences

Natural Disasters

Volume 01



Alfred Scott

ISBN
978-1-63239-225-1

\$90.00 US

2015

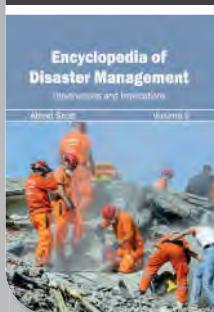
Book Size
6"x9"174pp.
Colored

Hardback

Encyclopedia of Disaster Management: Assessment and Impact

This book presents information that is essential for improving disaster management. The book discusses the management component of the disaster continuum i.e. the nature of the risk, hazard, vulnerability, strategies, response and adaptation. The chapters comprise of research studies conducted by various international scholars. The researches concentrate on a specific location or accident. The chapters are arranged in the manner in which the phases of emergencies and disasters occur. The content reflects the diversity in the disciplines within disaster management. The challenges occur when science and social science collectively endeavor to improvise the techniques, approaches and decision-making by disaster management practitioners and the public. This book presents the growing complexity of disasters, the rescue strategies adopted and the challenges that society faces every day.

Volume 02



Alfred Scott

ISBN
978-1-63239-226-8

\$110.00 US

2015

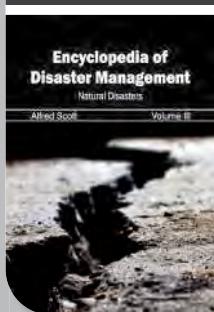
Book Size
6"x9"225pp.
Colored

Hardback

Encyclopedia of Disaster Management: Observations and Implications

Disaster management involves the mitigation of effects of a calamity using an integrative strategy involving both human and materialistic resources. This book presents an overview of crucial disaster management issues. Original research reports by international scholars focused on disaster management present important facets of danger and disaster management. It discusses perspectives on vulnerability and advancing approaches to mitigation, approaches to improve data use and information management in distinct applications aimed at promoting prediction and communication of hazard, and the management of crisis and post-event recovery in private sector, in the design of urban space and among the victims of a disaster. This book contributes theoretical as well as practical updates to the existing disaster management literature.

Volume 03



Alfred Scott

ISBN
978-1-63239-227-5

\$80.00 US

2015

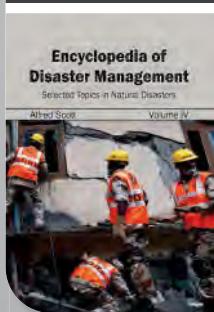
Book Size
6"x9"122pp.
Colored

Hardback

Encyclopedia of Disaster Management: Natural Disasters

The book provides an analysis of the intricate and extensive field of the impact of natural disasters. Various approaches are possible to examine psychological, environmental, economic, or societal damage caused by natural disasters, targeting to help decrease the impacts of future events. A broad spectrum of analyses from various parts of the globe are encompassed in this book illustrating different approaches from which natural disasters can be studied. The book begins with a presentation of a possible technique to either decrease or avoid the vulnerability of concrete buildings in times of floods. Furthermore, it provides information regarding the communication during post-disaster emergency phase, with information regarding the evaluation of two distinct types of effects on the day-to-day life of people. It also discusses a study of the role of stakeholder participation in post-disaster reconstruction.

Volume 04



Alfred Scott

ISBN
978-1-63239-228-2

\$90.00 US

2015

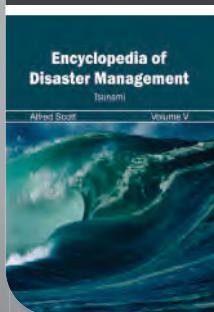
Book Size
6"x9"167pp.
Colored

Hardback

Encyclopedia of Disaster Management: Selected Topics in Natural Disasters

The crossroads between more and more populated human communities and their transforming environment pose distinct complications than ever before. This book serves as a great source of reference for several users, interested in a better comprehension of natural hazards and their effective management. It encompasses information regarding various natural hazards leading to disasters, like avalanches, tropical storms, coastal floods, etc. The case studies illustrated in this book describe various geographical areas, and they consist of mechanisms for being moved to other spots and circumstances. The book will definitely appeal to those who invest their efforts in building communities resilient to natural disasters.

Volume 05



Alfred Scott

ISBN
978-1-63239-229-9

\$110.00 US

2015

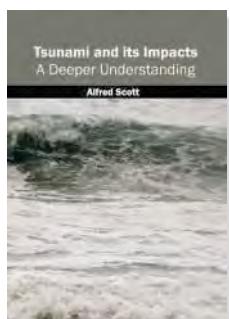
Book Size
6"x9"244pp.
Colored

Hardback

Encyclopedia of Disaster Management: Tsunami

Tsunami is considered an epidemic natural disaster. The purpose of this multidisciplinary text is to present numerous researches regarding development and management methods required before and after tsunami. It is planned to circulate this research among the scientific society and decision makers for tsunami risk reduction. The presented chapters are professionally researched. The book provides readers with modern techniques for tsunami measurement using various methods and instruments such as paleotsunami, GPS buoy, ionospheric sounding, ocean bottom sensors, pre-tsunami alarm system and situation based numerical modeling. This book includes an analysis of various case studies from the Caribbean, Tamil Nadu and several other regions of the world. Furthermore, it classifies tsunamis regionally, locally, and globally, and highlights their respective immediate vicinity. It also includes the effects of tsunami on the surroundings and infrastructure. Finally, the book throws light on the importance of the medical response preparedness and consequences of the affected survivors.

Earth and Planetary Sciences

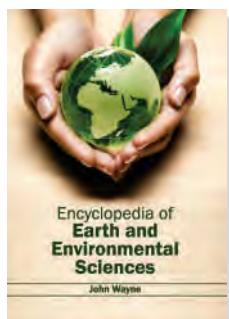


Natural Disasters

Alfred Scott	ISBN 978-1-63239-599-3	\$120.00 US	2015	Book Size 6"x9"	270pp. Colored	Hardback
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Tsunami and its Impacts: A Deeper Understanding

Tsunami can be defined as a long, high sea wave caused by an earthquake or other disturbance. This book contains information for the purpose of in-depth understanding of the vast topic of tsunami dynamics. It is a compilation of scientific works reflecting state-of-the-art of tsunami research at distinct levels. Several contributions in this book encompass an array of themes ranging from geological evidence to post-trauma human care, comprising of pre-tsunami analyses and modeling to post-tsunami management and preparedness methods. The book consists of evidence and case studies from distinct regions of the world, such as the isolated Hawaiian Islands and Northern Indian Ocean as well as the edges of Atlantic and Eastern Mediterranean.



Sustainability

John Wayne	ISBN 978-1-63239-230-5	\$150.00 US	2015	Book Size 6"x9"	388pp. Colored	Hardback
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Encyclopedia of Earth and Environmental Sciences

Earth and environmental sciences is a dynamic field in which new problems arise with time and the old ones often re-emerge. We have come to face a situation where new environmental challenges arise every day and we need to make some fast and binding decisions. In many cases information regarding geological processes is crucial to find out an appropriate explanation. The main aim of this book is to present the readers with a broad overview of Earth and Environmental Sciences. We are hopeful that this recent research will offer readers with a helpful foundation for discussing and analyzing specific environmental issues and will help in generating new techniques to tackle these problems. This book is a comprehensive read on different aspects of environmental sciences including hydrogeology, mineralogy, soil and remote sensing.

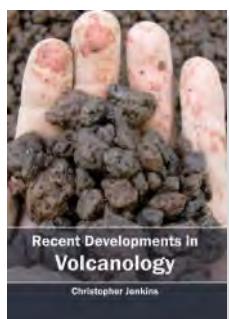


Earth Science

Christopher Jenkins	ISBN 978-1-63239-603-7	\$120.00 US	2015	Book Size 6"x9"	253pp. Colored	Hardback
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Volcanology: Progress and Problems

This book discusses the problems related to the field of volcanology along with the progress witnessed in this field. The book presents individual research works on volcanological problems. The aim of this book is to serve as a valuable source of reference for graduate research students as well as researchers. It provides descriptive information regarding the wide field of volcanology dealing with several actively growing subject areas like volcanic terrain evolution or volcaniclastic-hosted mineral resource examination, volcano morphology, etc. It also presents insights into the areas like the sedimentary basin in China or the Russian Far East which are extremely remote and commonly less known to the global community. It illustrates the active evolution of volcanology during the past few decades.



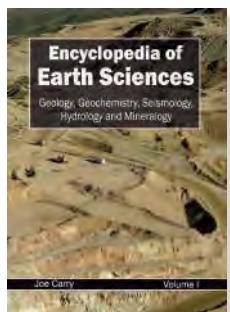
Earth Science

Christopher Jenkins	ISBN 978-1-63239-538-2	\$120.00 US	2015	Book Size 6"x9"	275pp. Colored	Hardback
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Recent Developments in Volcanology

The recent advances in the field of volcanology are elucidated in this profound book. This book provides a geologic-petrologic explanation of prominent volcanic fields across the world which is less discussed in international literature on volcanology. It also provides discourses and inferences about the outcomes associated with geophysical methods. It emphasizes on numerous situations reflecting large-scale volcanisms on Earth, related both with active or intra-plate margins. Several huge volcanic networks of Eastern countries have been discussed in this book, inclusive of those in Mongolia, Siberian Russia, and Japan. Descriptive information on the European volcanic province of the Pannonia basin and Central-Southern Spain has also been provided. Areas of the southern hemisphere of Polynesia and Antarctica have also been covered in this book. It is a significantly useful source of information as a guide for people interested in visiting or hold curiosity in knowing about the major characteristics of the above volcanic areas, with some of them being remote and highly unreachable.

Earth and Planetary Sciences



Joe Carry

ISBN
978-1-63239-232-9

\$150.00 US

2015

Book Size
6"x9"

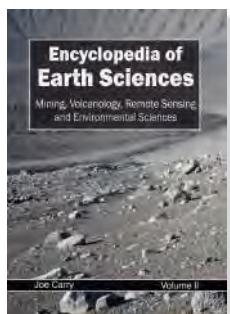
357pp.
Colored

Hardback

Earth Science

Encyclopedia of Earth Sciences: Geology, Geochemistry, Seismology, Hydrology and Mineralogy Volume I

Research on Earth's history and of the physical and chemical characteristics of the matter that makes up our planet is of great importance to understand both its past and its future. The geographical and other environmental processes on Earth and the composition of the planet are of crucial significance in locating and utilizing its resources. This book is primarily written for experts, geologists, civil engineers, mining engineers, and environmentalists. We are hopeful that the content will be used by students, and it will continue to be useful to them throughout their following professional and research careers. This does not mean that the book was printed solely keeping students in mind. Instead, from the point of view of experts in Environmental Science, it can be argued that this book contains more features than they will require in their primary studies or research. The book extensively covers topics such as geology, geochemistry, seismology, petroleum geology, hydrology, hydrogeology and mineralogy.



Joe Carry

ISBN
978-1-63239-233-6

\$140.00 US

2015

Book Size
6"x9"

318pp.
Colored

Hardback

Remote Sensing

Encyclopedia of Earth Sciences: Mining, Volcanology, Remote Sensing and Environmental Sciences Volume II

The geographical and other environmental processes on Earth and the composition of the planet are of crucial significance in locating and utilizing its resources. This book is principally written for experts, geologists, civil engineers, mining engineers, and environmentalists. We are hopeful that the content will be used by students, and it will continue to be useful to them throughout their following professional and research careers. This does not mean that the book was printed solely keeping students in mind. Instead, from the point of view of experts in Environmental Science, it can be argued that this book contains more features than they will require in their primary studies or research. The book extensively covers topics related to mining, volcanology, remote sensing, and environmental sciences.



Matt Weilberg

ISBN
978-1-63239-075-2

\$120.00 US

2015

Book Size
6"x9"

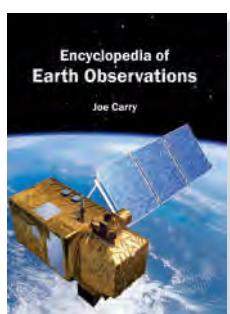
306pp.
Colored

Hardback

Remote Sensing

Applications of Remote Sensing

Remote sensing has majorly profited almost all areas of human activity and development. Remote sensing provides a common platform to physical, natural and social activities for interaction and advancement. This book discusses the impacts of remote sensing on various areas of science, human activity and technology by presenting a selected number of high quality contributions related to various remote sensing applications organized under two sections: Land Cover and Climate & Atmosphere. The book includes contributions of prominent experts and researchers, who possess vast knowledge and years of experience in this field.



Joe Carry

ISBN
978-1-63239-231-2

\$120.00 US

2015

Book Size
6"x9"

265pp.
Colored

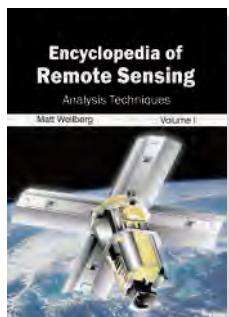
Hardback

Remote Sensing

Encyclopedia of Earth Observations

In recent times, space technology is being used as a significant tool for Earth observation applications. Satellites and other accessible remote sensing platforms are used for collecting the data. Wide ranges of electromagnetic energy, that are being reflected, transmitted or emitted from the surface of the Earth, can be detected through remote sensing data collection. Implementing further data processing requires suitable detection systems. Space technology has proved to be a successful application in the study of climatic change due to the dynamic comparison between current and past data. This book offers various aspects of climatic change and discusses applications of space technology.

Earth and Planetary Sciences

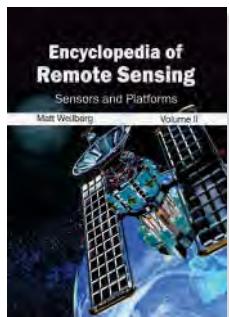


Remote Sensing

Matt Weilberg	ISBN 978-1-63239-288-6	\$110.00 US	2015	Book Size 6"x9"	244pp. Colored	Hardback
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Encyclopedia of Remote Sensing: Analysis Techniques Volume I

This book gives a comprehensive account of various areas related to remote sensing. It attempts to cover major aspects of remote sensing techniques by providing detailed studies about new techniques for data processing. It includes contributions of renowned researchers, experts and practitioners in this field from all over the world. Their collective expertise impart significant knowledge and serve as a valuable reference for researchers, students and other interested individuals in this field.

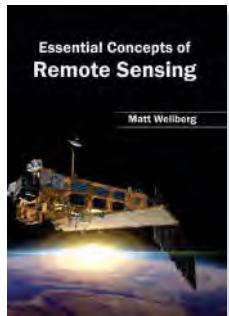


Remote Sensing

Matt Weilberg	ISBN 978-1-63239-289-3	\$110.00 US	2015	Book Size 6"x9"	242pp. Colored	Hardback
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Encyclopedia of Remote Sensing: Sensors and Platforms Volume II

This book gives a comprehensive account of various areas related to remote sensing. It attempts to cover major aspects of remote sensing techniques and platforms by providing detailed studies about sensors and platforms and new techniques required for data processing. It includes contributions of renowned researchers, experts and practitioners in this field from all over the world. Their collective expertise impart significant knowledge and serve as a valuable reference for researchers, students and other interested individuals in this field.

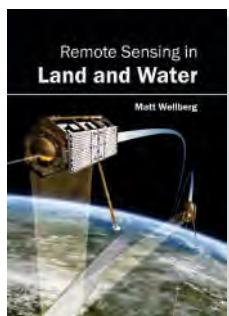


Remote Sensing

Matt Weilberg	ISBN 978-1-63239-317-3	\$110.00 US	2015	Book Size 6"x9"	234pp. Colored	Hardback
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Essential Concepts of Remote Sensing

This book includes essential concepts in the application of remote sensing. Remote sensing has majorly profited almost all areas of human activity and development by providing a common platform to physical, natural and social activities for interaction and advancement. This book discusses the impacts of remote sensing on various areas of science, human activity and technology by presenting a selected number of high quality contributions related to various remote sensing applications organized under sections namely, Remote Sensing in Oceans & Cryosphere and Human Activity Assessment. The book includes contributions of prominent experts and researchers, who possess vast knowledge and years of experience in this field.



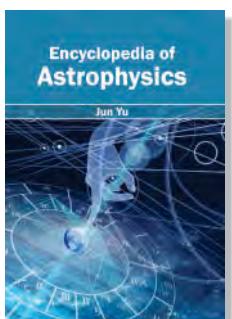
Remote Sensing

Matt Weilberg	ISBN 978-1-63239-548-1	\$110.00 US	2015	Book Size 6"x9"	252pp. Colored	Hardback
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Remote Sensing in Land and Water

This book illustrates advancements in the techniques of remote sensing in water and land. With the expansion of remote sensing and public access, monitoring of water and land objects has advanced. Satellites monitoring Earth aid pictorial, measurable, detailed, standardized, holistic and global examination of the condition of the Earth skin in a unique manner. The water monitoring topics presented in this all-inclusive book encompass remote sensing of open water bodies, wetlands, small lakes, snow depth and underwater seagrass as well as a number of different remote sensing techniques, platforms, and sensors. The primary Earth monitoring topics encompassed are disaster analysis post tsunami, geomorphology and land cover in arid climate. The book also includes advanced topics of remote sensing including earthquake visual monitoring, general overview of laser reflectometry in the atmosphere medium and atmosphere analysis with GNSS signals.

Earth and Planetary Sciences



Astronomy & Astrophysics

Jun Yu

ISBN
978-1-63239-209-1

\$160.00 US

2015

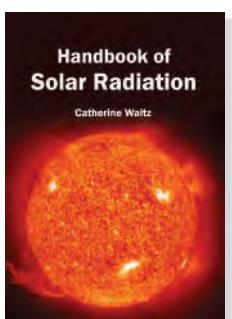
Book Size
6"x9"

410pp.
Colored

Hardback

Encyclopedia of Astrophysics

The astronomical science dealing with the study of nature and physics of celestial bodies is termed as astrophysics. This book provides readers with a theoretical and observational approach to astrophysics. The invention of sophisticated telescopes and other equipment has brought the universe closer. This is the reason why the field of astrophysics is growing day by day. This book demonstrates the cosmic activities that occur in nature. This book covers different dimensions of astrophysics i.e. observational astrophysics, cosmology, the solar system, stars, planets, galaxies, spectroscopy, theoretical astrophysics, dark matter, neutron stars and high energy astrophysics.



Astronomy & Astrophysics

Catherine Waltz

ISBN
978-1-63239-413-2

\$120.00 US

2015

Book Size
6"x9"

278pp.
Colored

Hardback

Handbook of Solar Radiation

This book is an outcome of the contributions made by eminent scientists and experts in the field of solar radiation from all over the world. It focuses on the basics of solar radiation. It also discusses ecological impacts of solar radiation. The book covers numerous topics on solar radiation such as measurements and analysis of solar radiation, and also discusses in detail agricultural application – bioeffect. It provides scientific understanding on solar radiation for reference to researchers and students.



Astronomy & Astrophysics

Catherine Waltz

ISBN
978-1-63239-414-9

\$120.00 US

2015

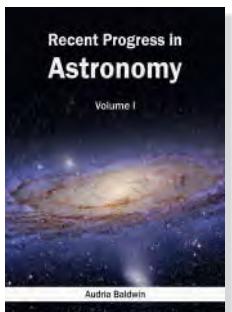
Book Size
6"x9"

270pp.
Colored

Hardback

Handbook of Solar Wind

This book contains the work of prominent scientists in the fields of solar and space plasma physics, and space and planetary physics. It makes a significant contribution to the theory, modeling and experimental methods of the solar wind exploration. The main objective of the book is to provide the latest knowledge regarding solar wind formation and elemental composition, the interplanetary dynamical evolution and acceleration of the charged plasma particles, and the guiding magnetic field that connects to the magnetospheric field lines and that adjusts the effects of the solar wind on the Earth. Many of the scientists actively working and researching in these fields will find this book full of several new and interesting ideas.



Astronomy & Astrophysics

Audria Baldwin

ISBN
978-1-63239-539-9

\$150.00 US

2015

Book Size
8.5"x11"

216pp.
Colored

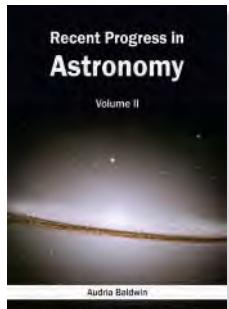
Hardback

Recent Progress in Astronomy: Volume I

This book is focused on the different physical, mathematical and related aspects concerned with the field of astronomy. The book covers in detail the existent theories and some innovative concepts revolving around astronomy. It encompasses a series of well-written researches in astronomy and astrophysics. This book is a vital tool for all researching or studying these fields as it gives incredible insights into key topics and concerns.

Earth and Planetary Sciences

Astronomy & Astrophysics

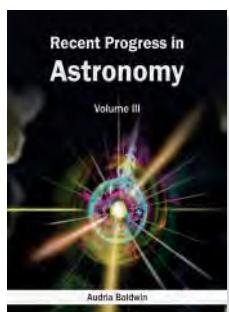


Audria Baldwin	ISBN 978-1-63239-540-5	\$150.00 US	2015	Book Size 8.5"x11"	218pp. Colored	Hardback
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Recent Progress in Astronomy: Volume II

This book is focused on the different physical, mathematical and related aspects concerned with the field of astronomy. The book covers in detail the existent theories and some innovative concepts revolving around astronomy. It encompasses a series of well-written researches in astronomy and astrophysics. This book is a vital tool for all researching or studying these fields as it gives incredible insights into key topics and concerns.

Astronomy & Astrophysics

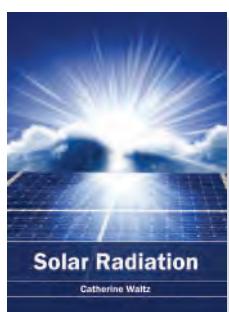


Audria Baldwin	ISBN 978-1-63239-541-2	\$150.00 US	2015	Book Size 8.5"x11"	216pp. Colored	Hardback
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Recent Progress in Astronomy: Volume III

This book is focused on the different physical, mathematical and related aspects concerned with the field of astronomy. The book covers in detail the existent theories and some innovative concepts revolving around astronomy. It encompasses a series of well-written researches in astronomy and astrophysics. This book is a vital tool for all researching or studying these fields as it gives incredible insights into key topics and concerns.

Astronomy & Astrophysics

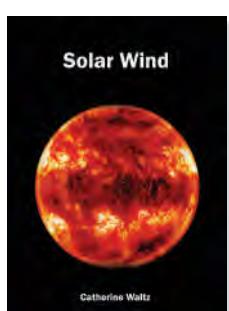


Catherine Waltz	ISBN 978-1-63239-571-9	\$110.00 US	2015	Book Size 6"x9"	230pp. Colored	Hardback
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Solar Radiation

This book is the result of concerted efforts by the eminent scientists and experts in the field of solar radiation from all over the world. It discusses ecological impacts of solar radiation. The book covers numerous topics on solar radiation such as architectural application, thermal energy application and electricity generation application. It provides scientific understanding on solar radiation for reference to researchers and students.

Astronomy & Astrophysics

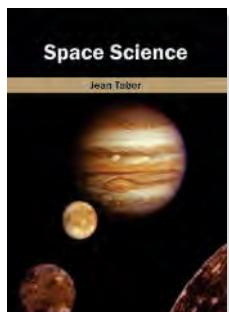


Catherine Waltz	ISBN 978-1-63239-572-6	\$110.00 US	2015	Book Size 6"x9"	215pp. Colored	Hardback
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Solar Wind

This book contains the work of prominent scientists in the fields of solar and space plasma physics, and space and planetary physics. It makes a significant contribution to the theory, modeling and experimental methods of the solar wind exploration. The main objective of the book is to provide the latest knowledge regarding solar wind formation and elemental composition, the interplanetary dynamical evolution and acceleration of the charged plasma particles, and the guiding magnetic field that connects to the magnetospheric field lines and that adjusts the effects of the solar wind on the Earth. Many of the scientists actively working and researching in these fields will find this book full of several new and interesting ideas.

Earth and Planetary Sciences

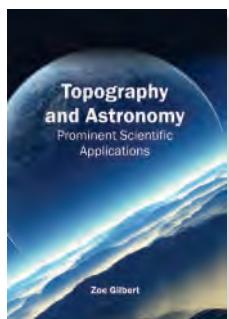


Astronomy & Astrophysics

Jean Tabor	ISBN 978-1-63239-573-3	\$90.00 US	2015	Book Size 6"x9"	164pp. Colored	Hardback
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Space Science

This book consists of state-of-the-art information regarding the extensive field of Space Science. Space Science is a vast term which describes the distinct fields of research in science related to the study of the Universe, usually excluding Earth's atmosphere. These include physics and astronomy, aerospace engineering, spacecraft technologies, advanced computing and radio communication systems. This book is a distinct publication on space science, providing significant information compiled through a scientifically rigorous process. The book has been strategically structured to take the reader on a fascinating journey beginning from the very surface of earth and extending up to the periphery of this universe. It provides an updated review on space exploration along with analyzing the role of upcoming nations. An overview on Earth's initial evolution during its ancient ice age has also been provided in the book. Towards the end, a revaluation of some of the aspects of planetary dynamics and satellites has also been provided, followed by interesting discourses on new advances in cosmology and physics of cosmic microwave background radiation.

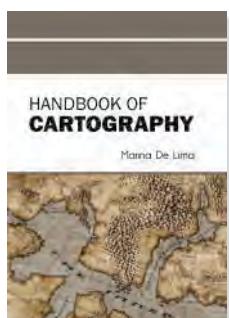


Astronomy & Astrophysics

Zoe Gilbert	ISBN 978-1-63239-597-9	\$110.00 US	2015	Book Size 6"x9"	231pp. Colored	Hardback
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Topography and Astronomy: Prominent Scientific Applications

This book extensively discusses the prominent scientific applications of topography and astronomy. It presents latest information about the experimental and theoretical aspects of some interferometry methodologies. It also discusses their applications in astronomy and topography. It presents valuable information on interferometry techniques used for precise measurement of surface topography in engineering applications and interferometry applications related to Earth's topography. It also discusses applications of interferometry in astronomy with special emphasis on techniques for detection of planets outside our solar system. The topics offer an opportunity to readers to gain insights about interferometry techniques and encourage researchers in developing new interferometry applications.

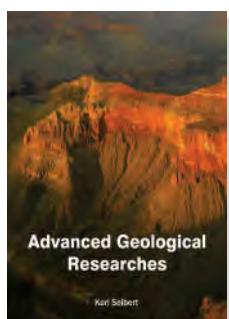


Geography

Marina De Lima	ISBN 978-1-63239-377-7	\$140.00 US	2015	Book Size 6"x9"	325pp. Colored	Hardback
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Handbook of Cartography

The space where natural systems and social systems interact is called terrestrial space. Cartography is a means to understand these intricate systems, their interaction and evolution. Hence, cartography has acquired a significant place in the modern scenario. This book provides an overview of the activities which state the significance of cartography in the perception and organization of the territory into distinct areas. Studying the past or understanding the present, cartography has always been a tool to explore all themes of knowledge.



Geology & Geophysics

Karl Seibert	ISBN 978-1-63239-018-9	\$150.00 US	2015	Book Size 8.5"x11"	219pp. Colored	Hardback
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Advanced Geological Researches

This book is a compilation of researches and advanced theories from all the areas of geology. Some of the diverse topics also address the varied branches that fall under this category such as volcanology, sedimentology, plate tectonics, paleontology, geomorphology, and geochemistry. This book can be seen as a complete source of knowledge on the present status of this important field. Also the changes that took place over the past times in many countries across the world, which eventually were studied by geologists, are also examined in this book. The advancement and impacts of present researches have also been discussed in this book.

Geology & Geophysics

Analysis and Theories In
Geosciences



Theodore Roa

Theodore Roa

ISBN
978-1-63239-069-1

\$90.00 US

2015

Book Size
6"x9"

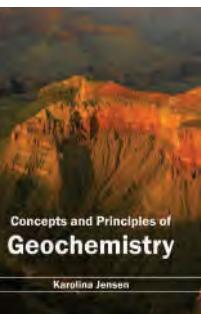
186pp.
Colored

Hardback

Analysis and Theories in Geosciences

This book is a collection of studies and essays regarding geosciences contributed by many of the leading experts in this field. Extracting data from chaotic systems in geosciences has become pretty easy due to fractal analysis. It is being used to deal with a lot of problems in this field. This book presents latest applications of fractal and multifractal assessments in geoscience. It discusses the functioning of the fractal evaluation in climatology and data of cosmic and solar geomagnetic data from experiments. It concludes with special focus on the usage of multi fractal estimation in discovering geophysics. This book will be a significant source of information for researchers and students.

Geology & Geophysics



Concepts and Principles of
Geochemistry

Karolina Jensen

Karolina Jensen

ISBN
978-1-63239-126-1

\$120.00 US

2015

Book Size
6"x9"

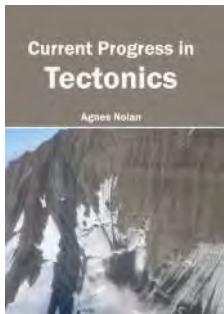
247pp.
Colored

Hardback

Concepts and Principles of Geochemistry

The book consists of information regarding several issues within the area of geochemistry. The audience for this book includes a large number of scientists like physicists, geologists, geochemists, technologists and government agencies. The issues introduced establish a starting point for new ideas and further additions. An effective and efficient management of geological and environmental topics necessitates the understanding of current research in the field of soil, ores, rocks, water, and sediments. The research that is showcased in the book was accomplished by experts and is thus suggested to scientists, under and postgraduate students who want to acquire knowledge and insight into the latest advancements in geochemistry and also benefit from an improved understanding of the earth's system processes.

Geology & Geophysics



Current Progress in
Tectonics

Agnes Nolan

Agnes Nolan

ISBN
978-1-63239-141-4

\$140.00 US

2015

Book Size
6"x9"

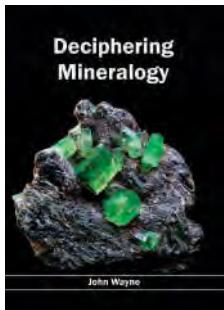
343pp.
Colored

Hardback

Current Progress in Tectonics

Tectonics is concerned with the large-scale processes which affect the structure of the earth's crust. This book focuses on distinct characteristics of tectonic researches, primarily on modern geodynamic procedures. A combination of existing and new works, along with novel outcomes and interpretations, has been elucidated in this book for diverse tectonic settings. The book provides updated content on descriptive geological-geophysical investigations, which can help readers to comprehend the essence of mechanisms of distinct tectonic processes more vividly. Descriptive procedures in axes of slow-spreading mid-ocean ridges with an example of central part of Mid-Atlantic Ridge and in continental collision zones are some of the general problems of tectonics that have been presented in this book. Composition of sedimentary basins has been analyzed with examples of Niger Delta, Mesozoic and Cenozoic basins of the Alpine margin (Tunisia), and Triassic Cuyana Basin (Argentina). Neotectonic procedures in Morocco and Turkey have been evaluated; tectonic evolution of the southern margin of Laurasia in the Paleozoic has been discussed about; and interconnection of western Troms-Lofoten and the Lewisian complexes in the Middle Paleoproterozoic has also been elucidated.

Geology & Geophysics



Deciphering
Mineralogy

John Wayne

John Wayne

ISBN
978-1-63239-145-2

\$90.00 US

2015

Book Size
6"x9"

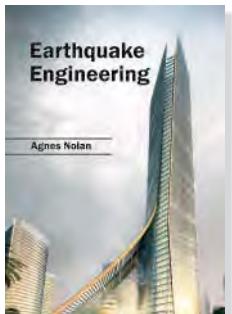
157pp.
Colored

Hardback

Deciphering Mineralogy

This book is a compilation of easy to comprehend researches. It offers an extensive account of the field of mineralogy. This book targets chemists, physicists, engineers and students of geology, geophysics and soil science. It is vital to the advanced students of mineralogy who seek concise yet precise content. They can refer to it to broaden their knowledge or as a reference in their work.

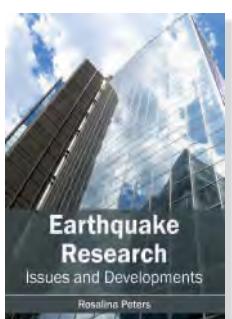
Earth and Planetary Sciences



Geology & Geophysics						
Agnes Nolan	ISBN 978-1-63239-156-8	\$140.00 US	2015	Book Size 6"x9"	307pp. Colored	Hardback

Earthquake Engineering

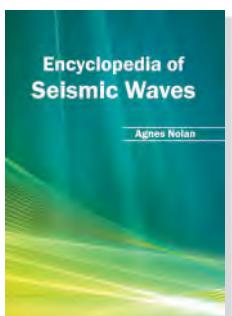
The book aims to educate the readers with information regarding the field of earthquake engineering. The mitigation of earthquake-related hazards is essential in the modern society. The mitigation of such kind of hazards extends from detailed studies on seismicity, assessment of sites affected and seismo-induced landslides. It also expands from analysis of disasters like tsunami along with the design and analysis of structures to refrain such actions. The study of earthquakes integrates science, technology and expertise in infrastructure and engineering in an endeavor to curtail human and material losses due to earthquakes. This book deals with a variety of topics aiming to mitigate geo-hazards like seismic hazard analysis, ground investigation for seismic design, seismic design, assessment and remediation, earthquake site response evaluation and soil-structure interaction assessment.



Geology & Geophysics						
Rosalina Peters	ISBN 978-1-63239-157-5	\$150.00 US	2015	Book Size 8.5"x11"	172pp. Colored	Hardback

Earthquake Research: Issues and Developments

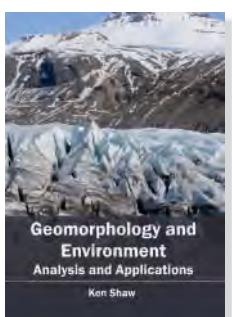
Since large portions of the land are occupied by humans; they are under the threat of earthquakes. The field of earthquake research is an urgent need of the hour. This book includes some of the recent work being done across the world, on various topics related to earthquakes. Earthquake research is an emerging field of study and this book will prove to be a beneficial read for all those interested in this area.



Geology & Geophysics						
Agnes Nolan	ISBN 978-1-63239-295-4	\$140.00 US	2015	Book Size 6"x9"	339pp. Colored	Hardback

Encyclopedia of Seismic Waves

Detailed information regarding the field of seismic waves has been presented in this insightful book. Seismic wave research not only enables us to assess earthquakes and tsunamis but it also acts as an indicator to determine Earth's features and composition. It has also led to the discovery of Mohorovicic discontinuity. With the development of theoretical understanding of physics behind seismic waves, numerical and physical modelings have remarkably advanced. It has also contributed towards some advanced applications like utilization of seismic stimulation to enhance the productivity of oil wells and utilization of artificially-induced shocks to examine subsurface of Earth. This book illustrates developments in seismic wave analysis from a theoretical perspective. It also discusses numerical simulations, research applications, data acquisition and interpretation. It includes contributions of scientists and researchers from all over the world.



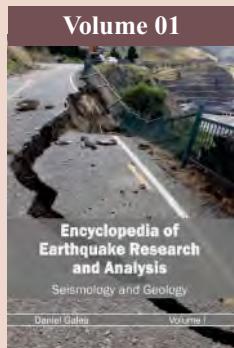
Geology & Geophysics						
Ken Shaw	ISBN 978-1-63239-357-9	\$120.00 US	2015	Book Size 6"x9"	292pp. Colored	Hardback

Geomorphology and Environment: Analysis and Applications

Extensive information regarding the field of geomorphology and its applications as well as analysis has been compiled in this book. It provides numerous up-to-date studies on geomorphology, covering distinct disciplines and methodologies, aimed at tools, techniques and general issues of environmental and applied geomorphology. The aim of this book is to integrate various methodological areas (meteorological and climate analysis, geomorphological mapping, geographic information systems GIS, remote sensing, land management techniques, vegetation and bio-geomorphological investigations) spanning several countries across continents (Asia, Europe, Africa, America) across distinct study areas.

Earth and Planetary Sciences

Geology & Geophysics

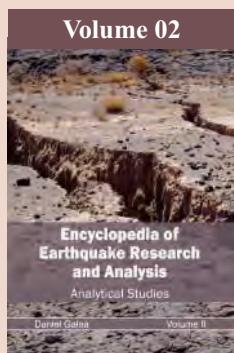


Volume 01

Daniel Galea | ISBN 978-1-63239-234-3 | \$160.00 US | 2015 | Book Size 6"x9" | 417pp. Colored | Hardback

Encyclopedia of Earthquake Research and Analysis: Seismology and Geology

This book covers various aspects of earthquake research. Based upon the earthquake's magnitude and the placement of its hypocenter, it has the capability to be extremely destructive. Seeing that earthquakes can cause much loss and death, it is crucial to understand the process and the physics behind this phenomenon. This book focuses on particular historical earthquakes and seismology in various tectonic surroundings and also includes a more applied study of the geology of earthquakes.

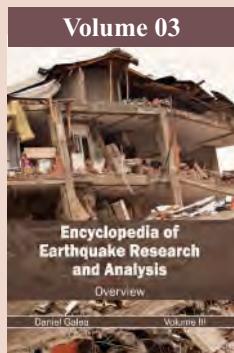


Volume 02

Daniel Galea | ISBN 978-1-63239-235-0 | \$120.00 US | 2015 | Book Size 6"x9" | 258pp. Colored | Hardback

Encyclopedia of Earthquake Research and Analysis: Analytical Studies

To minimize human and material losses due to inevitable occurrence of earthquakes, their study and understanding is of utmost importance. This book discusses different aspects related to earthquake research and its analysis. Some of the many topics included in this book are statistical seismology studies, the latest techniques and advances on earthquake precursors and forecasting, and also, new ways for immediate detection, data acquisition and its interpretation. The book covers a wide range of topics, from theoretical advances to practical applications.

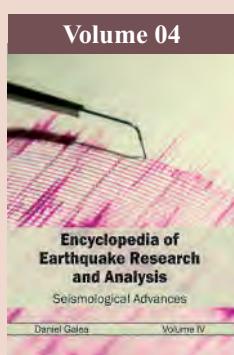


Volume 03

Daniel Galea | ISBN 978-1-63239-236-7 | \$110.00 US | 2015 | Book Size 6"x9" | 226pp. Colored | Hardback

Encyclopedia of Earthquake Research and Analysis: Overview

To minimize human and material losses due to inevitable occurrence of earthquakes, their study and understanding is of utmost importance. Some of the many topics included in this book are statistical seismology studies, the latest techniques and advances on earthquake precursors and forecasting, and also, new ways for immediate detection, data acquisition and its interpretation. The book covers a wide range of topics, from theoretical advances to practical applications.

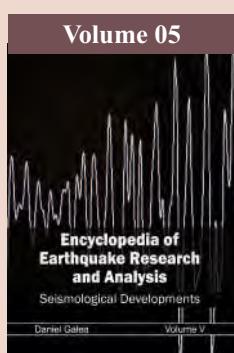


Volume 04

Daniel Galea | ISBN 978-1-63239-237-4 | \$110.00 US | 2015 | Book Size 6"x9" | 216pp. Colored | Hardback

Encyclopedia of Earthquake Research and Analysis: Seismological Advances

To minimize human and material losses due to inevitable occurrence of earthquakes, their study and understanding is of utmost importance. Some of the many topics included in this book are statistical seismology studies, the latest techniques and advances on earthquake precursors and forecasting, and also, new ways for immediate detection, data acquisition and its interpretation. The book covers a wide range of topics, from theoretical advances to practical applications.



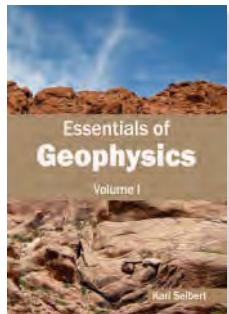
Volume 05

Daniel Galea | ISBN 978-1-63239-238-1 | \$150.00 US | 2015 | Book Size 6"x9" | 393pp. Colored | Hardback

Encyclopedia of Earthquake Research and Analysis: Seismological Developments

Earthquake studies involve science, technology and knowledge of infrastructure and engineering so that human and material losses can be minimized at the time when such occurrences are inescapable. This book discusses the different aspects of earthquake research and analysis through theoretical advances as well as practical applications. Some issues discussed are ground motion studies, depicting seismic sites, securing buildings from earthquake loading and mitigation of risk from earthquake. The main objective of this book is to support further research to enhance hazard assessment, seismic code building provisions and the dissemination of earthquake engineering data.

Earth and Planetary Sciences



Geology & Geophysics

Karl Seibert

ISBN
978-1-63239-329-6

\$150.00 US

2015

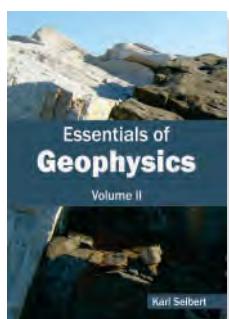
Book Size
8.5"x11"

216pp.
Colored

Hardback

Essentials of Geophysics: Volume I

Geophysics is a broad term which encapsulates many branches concerned with the study of earth. It draws principles from oceanography, climatology, atmospheric sciences etc. In modern times, the growth of geophysics has multiplied manifold times. The latest technology, modern devices and other progress has also led to the rapid growth of this field. This book aims to present the most innovative concepts and recent researches from across the globe, to help the readers understand the subject, its growth and future prospects. It will be a beneficial read for students and experts alike.



Geology & Geophysics

Karl Seibert

ISBN
978-1-63239-330-2

\$150.00 US

2015

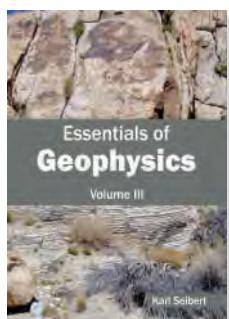
Book Size
8.5"x11"

226pp.
Colored

Hardback

Essentials of Geophysics: Volume II

Geophysics is a broad term which encapsulates many branches concerned with the study of earth. It draws principles from oceanography, climatology, atmospheric sciences etc. In modern times, the growth of geophysics has multiplied manifold times. The latest technology, modern devices and other progress has also led to the rapid growth of this field. This book aims to present the most innovative concepts and recent researches from across the globe, to help the readers understand the subject, its growth and future prospects. It will be a beneficial read for students and experts alike.



Geology & Geophysics

Karl Seibert

ISBN
978-1-63239-331-9

\$150.00 US

2015

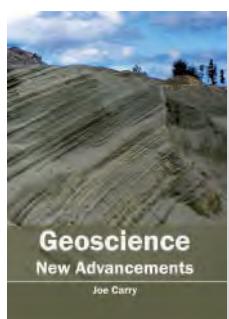
Book Size
8.5"x11"

215pp.
Colored

Hardback

Essentials of Geophysics: Volume III

Geophysics is a broad term which encapsulates many branches concerned with the study of earth. It draws principles from oceanography, climatology, atmospheric sciences etc. In modern times, the growth of geophysics has multiplied manifold times. The latest technology, modern devices and other progress has also led to the rapid growth of this field. This book aims to present the most innovative concepts and recent researches from across the globe, to help the readers understand the subject, its growth and future prospects. It will be a beneficial read for students and experts alike.



Geology & Geophysics

Joe Carry

ISBN
978-1-63239-358-6

\$110.00 US

2015

Book Size
6"x9"

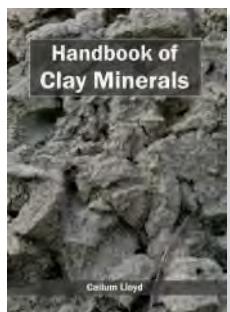
223pp.
Colored

Hardback

Geoscience: New Advancements

New advancements in the field of geoscience have been discussed in this profound book. It serves as an all-inclusive, encyclopedic and updated source for academic researchers in the extensive fields of earth and environmental sciences, geophysics, natural resource managements and other associated fields. The book aims at garnering attention of the readers towards issues dealing with geophysical and earth sciences. It discusses in detail, the research work done by distinguished and reputed scientists in the fields of geoscience. The book consists of selected topics covering potential field data interpretation, seismic interpretation and other important topics in the field of earth science.

Earth and Planetary Sciences



Geology & Geophysics

Callum Lloyd

ISBN
978-1-63239-381-4

\$140.00 US

2015

Book Size
6"x9"

326pp.
Colored

Hardback

Handbook of Clay Minerals

This book provides a concise and in-depth overview of clay minerals. Clay is a versatile material which has varied applications depending upon its properties and composition. Clay minerals are inexpensive and sufficiently available on earth. They have 1 nm silicate layers in almost all the sediments and are eco-friendly because they are natural minerals. This book discusses basic properties and role of clay minerals in deposits. It also deals with the importance of clay in the soils. This book also covers various aspects of research in this domain, especially to the identification of clay structure and its alteration for different applications.



Geology & Geophysics

Agnes Nolan

ISBN
978-1-63239-386-9

\$140.00 US

2015

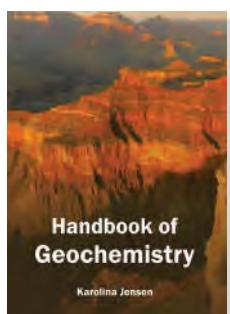
Book Size
6"x9"

348pp.
Colored

Hardback

Handbook of Earthquake Engineering

This multi-contributor descriptive book provides in-depth knowledge regarding the field of earthquake engineering. With increasing seismic activities and major earthquakes, the need for intense research and better understanding of the nature of seisms and their effects on structures is rapidly increasing. In the wake of frequent disasters, earthquake engineering research has been expanding as significant data has become available from a large array of seismic instruments, large scale experiments and numerical simulations. This book opens with results from some of the contemporary seismic research works including 3D wave propagation in different soil media, seismic loss assessment, probabilistic hazard analysis, geotechnical problems including soil-structure interaction. It also focuses on the seismic behavior of structures including historical and monumental structures, bridge embankments and different types of bridges and bearings.



Geology & Geophysics

Karolina Jensen

ISBN
978-1-63239-398-2

\$120.00 US

2015

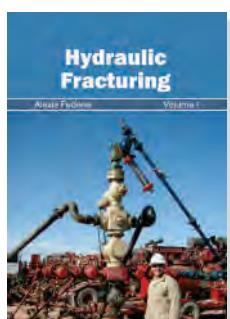
Book Size
6"x9"

276pp.
Colored

Hardback

Handbook of Geochemistry

The book consists of information regarding several issues within the area of geochemistry. The readership of this book includes a large group of scientists and practitioners like physicists, geologists, geochemists, technologists and government agencies. The issues introduced establish a starting point for new ideas and further additions. An effective and efficient management of geological and environmental topics necessitates the understanding of current research in the field of soil, ores, rocks, water, and sediments. The research that is showcased in the book was accomplished by experts and is thus suggested to scientists, under and postgraduate students who want to acquire knowledge and insight into the latest advancements in geochemistry and also benefit from an improved understanding of the earth's system processes.



Geology & Geophysics

Alexis Federer

ISBN
978-1-63239-422-4

\$160.00 US

2015

Book Size
6"x9"

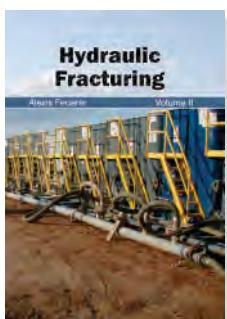
439pp.
Colored

Hardback

Hydraulic Fracturing: Volume I

The objective of this book is to upgrade hydraulic fracturing technology that is effective in its purpose and sustainable in its impacts on communities and environments by bringing together hydraulic fracturing experts not only from the petroleum industry, but also from other application areas of hydraulic fracturing such as mining and geothermal energy production. Some of the discussed topics are hydraulic fracturing of naturally fractured formations, well completions and fracture commencement, and regulations-risks and communities.

Earth and Planetary Sciences

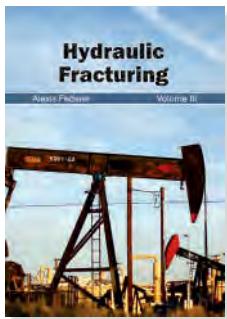


Geology & Geophysics

Alexis Federer	ISBN 978-1-63239-423-1	\$150.00 US	2015	Book Size 6"x9"	373pp. Colored	Hardback
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Hydraulic Fracturing: Volume II

The objective of this book is to upgrade hydraulic fracturing technology that is effective in its purpose and sustainable in its impacts on communities and environments by bringing together hydraulic fracturing experts not only from the petroleum industry, but also from other application areas of hydraulic fracturing such as mining and geothermal energy production. Some of the important topics discussed are induced seismicity, coupled modeling, well completions and fracture initiation, flow paths and networks, injection and efficiency, and multiple hydraulic fracture growth.

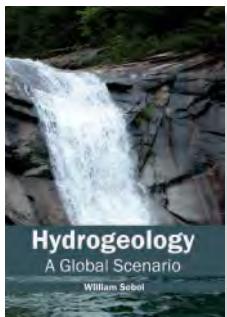


Geology & Geophysics

Alexis Federer	ISBN 978-1-63239-424-8	\$110.00 US	2015	Book Size 6"x9"	213pp. Colored	Hardback
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Hydraulic Fracturing: Volume III

The objective of this book is to upgrade hydraulic fracturing technology that is effective in its purpose and sustainable in its impacts on communities and environments by bringing together hydraulic fracturing experts not only from the petroleum industry, but also from other application areas of hydraulic fracturing such as mining and geothermal energy production. Some of the discussed topics are Numerical Modeling, Mining and Measurement, Thermo-Hydro-Mechanical Systems, Experimental Geomechanics and Optimizing Stimulation of Fractured Reservoirs.

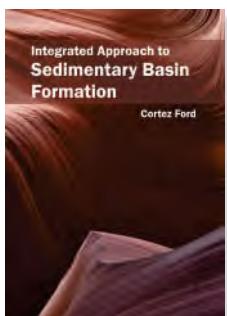


Geology & Geophysics

William Sobol	ISBN 978-1-63239-425-5	\$110.00 US	2015	Book Size 6"x9"	233pp. Colored	Hardback
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Hydrogeology: A Global Scenario

This book is a great source of information regarding the field of hydrogeology primarily intended for the people interested in the fields of earth sciences, environmental sciences, and physical geography. In the past few years, the world has started paying great attention on the area of groundwater hydrology and the inculcation of hydrogeology. It is mainly due to the rising requirement to meet the acute shortage of water, especially the increasing demand of ground water. This book has been written by a number of analysts belonging to different countries. It clearly explains a wide area of problems in the field of hydrogeology. Karst hydrogeology and removal procedures, hydrogeochemistry, soil hydraulic properties as a component influencing groundwater refill procedures, purposeful theoretical structures, and geophysical exploration for groundwater have all been described in this book. It provides the reader with an outlook on the work of hydrogeologists and scientists on the optimization of groundwater resources. This book will prove to be immensely beneficial to graduates and workers of this field.



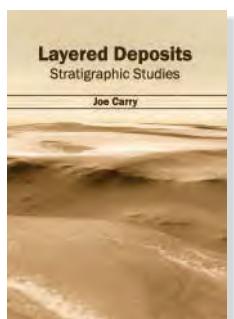
Geology & Geophysics

Cortez Ford	ISBN 978-1-63239-429-3	\$140.00 US	2015	Book Size 6"x9"	312pp. Colored	Hardback
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Integrated Approach to Sedimentary Basin Formation

An integrated approach towards the formation of sedimentary basin has been presented in this profound book. The purpose of this book is to provide an overview on the techniques of sedimentary basin formation on active plate margins, which display enormous diversity representing intricate tectonic processes. An interdisciplinary approach regarding basin-forming mechanism has been based on geology, geophysics and sedimentology. It is devoted to the genetic assessment of sedimentary basins in distorted zones in fore-arc and intra-arc regions. It also deals with basin formation in peripheral regions of Eurasia and intra-arc / foreland basins under the influence of the fluctuation of stress regimes. Geophysical methods to basin analysis have also been presented right from microscopic to regional scales. The extensive content of this book provides the readers with contemporary accomplishments of basin researches on active margins by Earth scientists.

Earth and Planetary Sciences

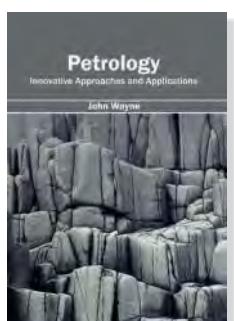


Geology & Geophysics

Joe Carry	ISBN 978-1-63239-447-7	\$140.00 US	2015	Book Size 6"x9"	310pp. Colored	Hardback
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Layered Deposits: Stratigraphic Studies

Stratigraphic analyses of layered deposits are described in this all-inclusive book. Stratigraphy is a geological sub-specialty which is defined as the science of describing the lateral and vertical relationships of distinct rock formations formed through time to comprehend the earth history. These interrelations might be the result of variety of factors including fossil content, magnetic properties, reflection seismology or archaeological deposits. Their study and analysis comprise of various sub-specialties of stratigraphy including lithostratigraphy, biostratigraphy, magnetostratigraphy, chemostratigraphy, seismic stratigraphy, chronostratigraphy and archaeological stratigraphy. During the late 1700s, James Hutton said "the present is the key to the past", a concept further developed by Charles Lyell in the early 1800s. This has evolved as the basis on which stratigraphy has worked ever since. This book lays specific emphasis on applications of geophysical techniques in stratigraphic investigations and analysis of layered basin deposits from distinct geologic settings across continents ranging from Mexico region (North America) through the Alpine belt including Greece, Italy, and Iraq to Russia (Northern Asia).

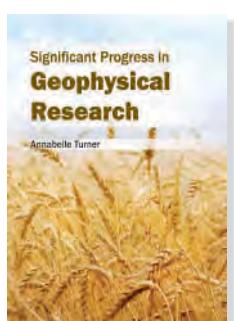


Geology & Geophysics

John Wayne	ISBN 978-1-63239-509-2	\$110.00 US	2015	Book Size 6"x9"	236pp. Colored	Hardback
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Petrology: Innovative Approaches and Applications

Petrology is the branch of geology that deals with the origin, structure, and composition of rocks. This book has been compiled for professionals as well as for advanced graduate courses in petrology. It consists of research-focused information about the current developments and applications of modern petrologic and geochemical methods for comprehending metamorphic, igneous and even sedimentary rocks. Research analyses compiled in this book provide an overview on the applications of latest petrologic methodologies to rocks of diverse origins. They represent a broad variety of settings (from Africa to Central Asia, and from South America to the Far East) as well as ages ranging from late Precambrian to late Cenozoic, and also Mesozoic/Cenozoic volcanism.

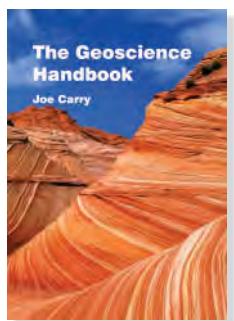


Geology & Geophysics

Annabelle Turner	ISBN 978-1-63239-560-3	\$160.00 US	2015	Book Size 8.5"x11"	327pp. Colored	Hardback
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Significant Progress in Geophysical Research

Researchers and scientists from across the globe have contributed in this profound book on geophysical researches. It includes significant studies on earth, climate change and the techniques involved in conducting experiments for further research in the field. This book will serve as an extensive source of knowledge for a broad spectrum of readers including students of graduate and post graduate levels, as well as practitioners and professionals engaged in the field.



Geology & Geophysics

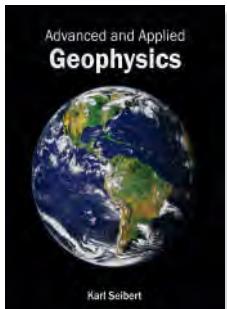
Joe Carry	ISBN 978-1-63239-595-5	\$140.00 US	2015	Book Size 6"x9"	347pp. Colored	Hardback
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The Geoscience Handbook

In the last thirty years, geoscience has developed and changed rapidly. The whole ecosystem is facing environmental imbalance due to climatic change. Hence, geoscientific applications are growing. A large number of novel methods, data and techniques have been introduced and experimented with various facets of geoscience. The sections of this book discuss the present state of various analysis, data, methods and modeling techniques. The application of these techniques and methods, to all the wings of geology, hydrology and environmental and climatic change is very well demonstrated in this book. The broad spectrum of methods and technology include global positioning system, digital sediment core image analysis, information system and technology, 3D sedimentology, change detection from remote sensing, and many more.

Earth and Planetary Sciences

Geophysics



Karl Seibert

ISBN
978-1-63239-012-7

\$150.00 US

2015

Book Size
8.5"x11"

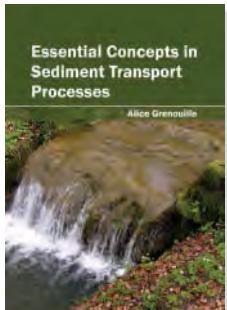
189pp.
Colored

Hardback

Advanced and Applied Geophysics

In the twentieth century, geophysics has developed methods for remote exploration of solid earth and natural water-bodies on earth, and has also played a very essential role in the development of studies and practical theories of plate tectonics. This book provides a collection of case studies and researches on some of the most significant topics in the field of geophysics. As this field is emerging very fast, this book will help readers to better understand the concepts of geophysics with help of the content.

Sedimentology



Alice Grenouille

ISBN
978-1-63239-315-9

\$150.00 US

2015

Book Size
6"x9"

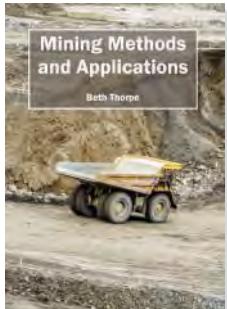
386pp.
Colored

Hardback

Essential Concepts in Sediment Transport Processes

The essential concepts in sediment transport processes are elucidated in this all-inclusive book. It presents a variety of topics related to sediment transport. It extensively discusses sediment dynamics, thereby helping in understanding effective management of aquatic environment. Economic and environmental consequences, especially in cases associated with anthropogenic involvement, have also been discussed. The fate of sediment movement and transport is often judged by tools like numerical models due to their efficiency in estimating temporal and spatial fluxes. Nature of the local sediments - whether fully cohesive, non-cohesive or mixture of both - is a crucial factor in determining physical sedimentary processes. This is the reason why engineers, mathematicians, scientists and hydrologists have been conducting researches for a long time about the various factors affecting sediment transport. These vary from processes such as erosion, scour and deposition to applications of sediment process observations in transport modeling frameworks. Researchers specializing in transport of sediments and supporting issues have been continually conducting researches in applied sediment transport in various aquatic environments. The inferences and outcomes of these crucial researches have been included in this book.

Mining Techniques



Beth Thorpe

ISBN
978-1-63239-460-6

\$75.00 US

2015

Book Size
6"x9"

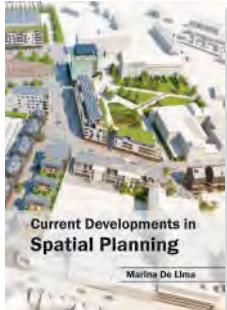
75pp.
Colored

Hardback

Mining Methods and Applications

Various mining methods as well as applications have been discussed in this all-inclusive updated book. The economic feasibility of a contemporary mine greatly depends on cautious planning and management. Declining trends in average ore grades, growing mining costs and environmental concerns indicate that this situation is likely to remain this way in near future. Mining techniques for underground as well as surface mineral deposits have been elucidated in this book. The methodologies have been generalized and aimed at conventional applications from distinct mining areas across the world. However, it has been kept in mind that each mineral deposit, with its geology, shape, volume, and grade, is distinct. The aim of this book is to serve as a useful source of reference for engineers, researchers and managers engaged in mining industry, as well as for NGOs, legal organizations, universities, financial institutions and lecturers as well as students engaged in mining engineering.

Urban Studies and Planning



Marina De Lima

ISBN
978-1-63239-137-7

\$150.00 US

2015

Book Size
6"x9"

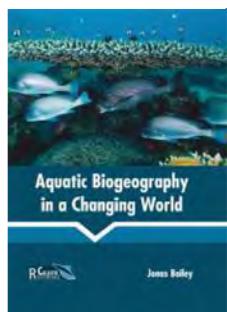
380pp.
Colored

Hardback

Current Developments in Spatial Planning

Geoscience is developing with a rapid pace and spatial planning is an important unit of it. Number of advanced methods and modeling techniques such as Global Positioning System (GPS), Geographical Information System (GIS) or remote sensing technologies have been introduced and practiced to enhance various facets of spatial planning. The sections of this book discuss the present profile of the theories, data, analytical methods and modeling techniques adopted in several case studies. The book not only deals with the latest developments in urban and spatial planning, but also highlights the different elements of spatial planning and provides access to different case studies in several countries.

Environmental Sciences



Jonas Bailey

ISBN
978-1-63239-822-2

\$155.00 US

2017

Book Size
7.75"×10.5"

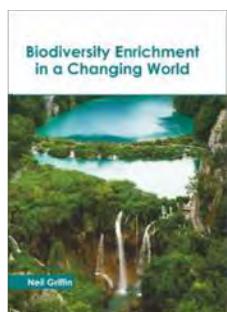
273pp.
Colored

Ecology

Hardback

Aquatic Biogeography in a Changing World

The study of distribution of plants and animals is called biogeography which is a branch of biology. Aquatic biogeography is defined as the study of aquatic ecosystem spatially distributed across globe. This book covers in detail some existent theories and innovative concepts revolving around aquatic biogeography. It aims to provide to its readers a wide variety of topics dealing with aquatic biogeography and its various aspects which are innovative and important. There has been rapid progress in this field and its applications are finding their way across multiple industries. The book is appropriate for students seeking detailed information in this area as well as for experts. It attempts to assist those with a goal of delving into the field of aquatic biogeography.



Neil Griffin

ISBN
978-1-63239-829-1

\$140.00 US

2017

Book Size
8.5"×11"

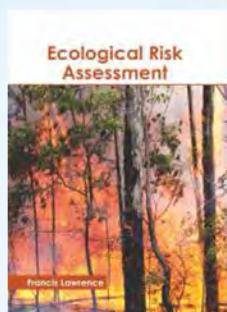
240pp.
Colored

Ecology

Hardback

Biodiversity Enrichment in a Changing World

The emphasis on biodiversity has increased in the past few decades. Biodiverse species occupy a vast portion of the earth's ecosystem. This book on biodiversity enrichment in a changing world discusses the strategies and programs adopted by organizations and projects around the world for diversity enhancement, wildlife conservation and forest management. Studies enumerating the ecological, rather than economic aspects emphasizes the changing interaction between the wildlife-urban continuums. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study. The book will serve as a reference text to ecologists, environmentalists, conservationists, researchers, academicians and students engaged in this field.



Francis Lawrence

ISBN
978-1-63239-830-7

\$127.00 US

2017

Book Size
8.5"×11"

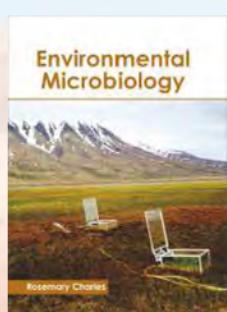
205pp.
Colored

Ecology

Hardback

Ecological Risk Assessment

Ecological risk assessment is defined as the monitoring of ecological resources to calculate changes and hazards faced by the ecosystems. Long-term damage can lead to larger sections of wildlife and flora being adversely affected. Models of risk assessment to deal with concrete effects that can be assessed as well as theoretical foresight that can be analyzed. This book on ecological risk assessment discusses the various models of ecological assessment and its relation to the severity of risk that is posed. From theories to research practical applications, case studies related to all contemporary topics of relevance of this field have been included in this book. It is a compilation of chapters that discusses the most vital concepts and emerging trends in the field of ecological risk assessment. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject.



Rosemary Charles

ISBN
978-1-63239-835-2

\$132.00 US

2017

Book Size
8.5"×11"

230pp.
Colored

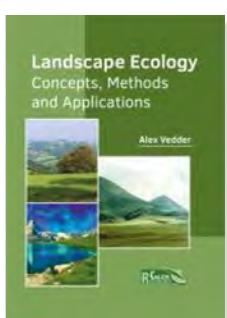
Ecology

Hardback

Environmental Microbiology

Environmental microbiology also referred to as microbial ecology, is the study of microorganisms and their relation and interaction to each other and the environment. As microorganisms play a very important role in the ecology thus, environmental microbiology is an essential part of scientific study. This book provides comprehensive insights into this field. It provides interesting topics for research which readers can take up. The text presents researches and studies performed by experts across the globe. Coherent flow of topics, student-friendly language and extensive use of examples make this text an invaluable source of knowledge. It is a vital tool for all researching or studying environmental microbiology as it gives incredible insights into emerging trends and concepts.

Environmental Sciences

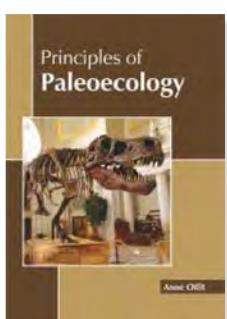


Alex Vedder	ISBN 978-1-63239-837-6	\$145.00 US	2017	Book Size 7.75"×10.5"	255pp. Colored	Hardback
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Ecology

Landscape Ecology: Concepts, Methods and Applications

Landscape ecology is concerned with the interactions between ecological processes and ecosystems. The important studies included in this area are land use, scaling, landscape mosaics, land cover change, landscape pattern analysis, landscape conservation, etc. This book traces the progress of this field and highlights some of its key concepts and applications. It brings forth some of the most innovative theories and elucidates the unexplored aspects of landscape ecology. For all readers who are interested in this subject, the case studies included in this text will serve as an excellent guide to develop a comprehensive understanding. It will serve as a valuable source of reference for graduate and post-graduate students.

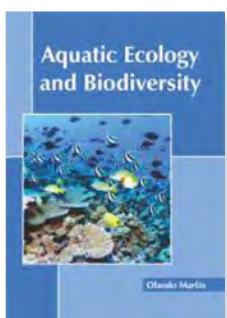


Anne Offit	ISBN 978-1-63239-836-9	\$145.00 US	2017	Book Size 8.5"×11"	255pp. Colored	Hardback
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Ecology

Principles of Paleoecology

This book includes some of the vital pieces of work being conducted across the world, on various topics related to paleoecology. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Paleoecology refers to the study of fossils, sub-fossils, fossil organisms and their remains to examine the past ecosystem. The main aim of paleoecology is to understand the life cycle, environmental conditions, living interactions and deaths of organisms, in order to reconstruct natural environment. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of this field. For all readers who are interested in this subject, the case studies included in this text will serve as an excellent guide to develop a comprehensive understanding. It will serve as a valuable source of reference for graduate and post graduate students.

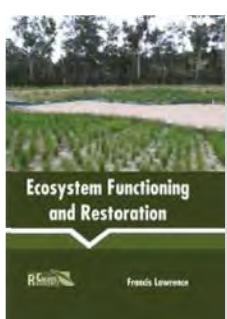


Olando Martin	ISBN 978-1-63239-821-5	\$150.00 US	2017	Book Size 8.5"×11"	260pp. Colored	Hardback
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Ecosystems

Aquatic Ecology and Biodiversity

Aquatic ecology is the study of various interactions of flora, fauna and ecological characteristics in an aquatic environment. It comprises the study of marine as well as freshwater ecosystems. This book presents complex subject of aquatic ecology in the most comprehensible and easy to understand language. It aims to present researches that have transformed this discipline and added its advancement. This book on aquatic ecology and biodiversity consist of topics dealing with preservation of ecologically significant areas, damage caused due to natural calamities and fishing activities, etc. The book would prove fruitful for researchers and students in the area of sustainable agriculture, natural habitat management and wildlife habitats.



Francis Lawrence	ISBN 978-1-63239-831-4	\$145.00 US	2017	Book Size 7.75"×10.5"	257pp. Colored	Hardback
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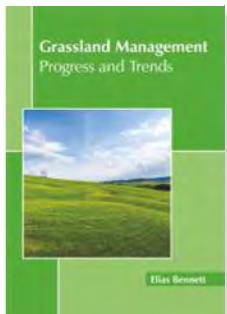
Ecosystems

Ecosystem Functioning and Restoration

Ecosystem functioning is the process whereby ecosystems enable the interaction of various organisms in its environment. This book on ecosystem functioning and restoration provides in-depth analysis of various forms of ecosystem management and risk assessment. Timely intervention and analysis can provide adequate shelter and resources for a depleting ecosystem to restore itself. For all readers who are interested in ecosystem functioning and ecological risk assessment, the case studies included in this book will serve as excellent guide to develop a comprehensive understanding. It attempts to understand the multiple branches that fall under this discipline to help develop a better understanding of the latest advances within this area. The topics included in this book on ecosystem functioning and restoration are of utmost significance and bound to provide incredible insights to readers. It is appropriate for students seeking detailed information in this area as well as for experts.

Environmental Sciences

Ecosystems



Elias Bennett

ISBN
978-1-63239-817-8

\$142.00 US

2017

Book Size
8.5"×11"

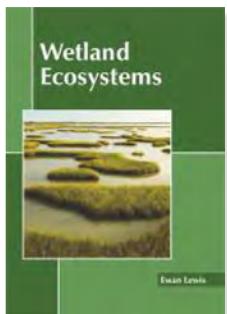
245pp.
Colored

Hardback

Grassland Management: Progress and Trends

Grassland management can be defined as human intervention in regions dominated by grass vegetation to achieve predetermined goals. This book on grassland management includes the study and classification of flora and fauna found in grasslands, their assessment and management. This extensive book on grasslands sheds light on the constitution of ecosystems and conservation techniques for sustainable development. Some of the diverse topics covered in this book address the varied branches that fall under this field. It brings forth some of the most innovative concepts and elucidates the unexplored aspects of grassland management. Conservationists, microbiologists and forest preservationists will find the book helpful. The readers would gain knowledge that would broaden their perspective about grassland management.

Ecosystems



Ewan Lewis

ISBN
978-1-63239-832-1

\$150.00 US

2017

Book Size
8.5"×11"

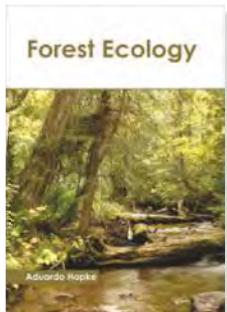
258pp.
Colored

Hardback

Wetland Ecosystems

Wetlands are areas that are saturated with water for most periods of a season. It becomes a distinct ecosystem due to the presence of hydric soil and unique vegetation that is found there. Wetlands naturally act as barriers against floods as well as provide water sources to animals and humans. Over usage and despoiling of wetlands, which otherwise take longer time to replenish and sustain itself, have led to newer research that focuses on preservation and management of wetlands. This book brings forth some of the most innovative concepts elucidates the unexplored aspects of wetland ecosystems. It strives to provide a fair idea about this discipline and to help better understanding within this field. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts.

Forestry



Aduardo Hapke

ISBN
978-1-63239-833-8

\$155.00 US

2017

Book Size
8.5"×11"

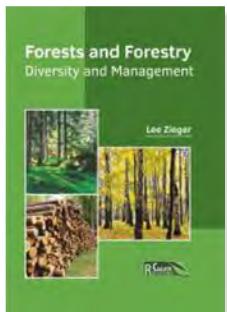
272pp.
Colored

Hardback

Forest Ecology

Forest ecology can be defined as the interaction of flora and fauna in forests. Forests can be of various types according to location and climate, and the patterns of conservation, preservation and analysis of forest ecosystems change according to these factors. The objective of this book is to give a general view of the different areas of forest ecology. It explores all the important aspects of this field in the present day scenario and provides significant information of this discipline to help develop a comprehensive understanding. It includes contributions of experts and scientists which will provide innovative insights into this field. This book on forest ecology will prove to be thought-provoking for students and researchers in the fields of ecological risk assessment, wildlife conservation and ecosystem engineering.

Forestry



Lee Zieger

ISBN
978-1-63239-820-8

\$132.00 US

2017

Book Size
7.75"×10.5"

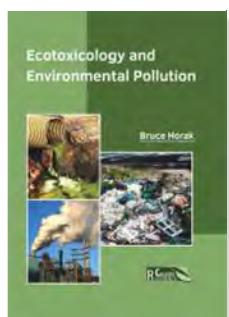
230pp.
Colored

Hardback

Forests and Forestry: Diversity and Management

Forestry and forest management are fields that are concerned with the preservation and expansion of forest cover on the earth's surface. Forests and Forestry are important subjects of study that aid in the analysis and historiographical accounting of various aspects of forests including area and spread, species of flora and fauna and impact of policy on pasture and forage practices. This book is compiled in such a manner that it will provide in-depth knowledge about the theory and practice of forestry. Different approaches, evaluations, methodologies and advanced study have been included herein. This book on forests and forestry seeks to cover topics that stress on management, biodiversity and preservation of ecosystems. This book will help new researchers by foregrounding their knowledge in this branch.

Environmental Sciences

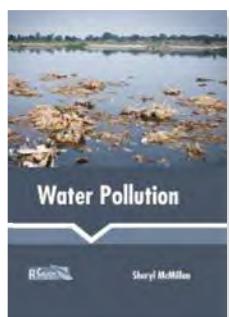


Pollution

Bruce Horak	ISBN 978-1-63239-819-2	\$135.00 US	2017	Book Size 7.75"×10.5"	233pp. Colored	Hardback
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Ecotoxicology and Environmental Pollution

Ecotoxicology is the study of the effects of pollutants present in the atmosphere on population, wildlife and the environment. This book discusses the imminent dangers that are faced by our ecosystem due to long-term waste mismanagement and pollution. Environmental pollution is adversely affecting all forms of life. It has become a growing concern for researchers and scientists all around the world. Research in this area focuses on the impact of exotoxins on wildlife and resources and strategies of survival and adaptation. This book discusses the fundamentals as well as modern approaches of tackling environmental pollution. It consists of contributions made by international experts. The topics included herein are of utmost significance and bound to provide incredible insights to the readers. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals.

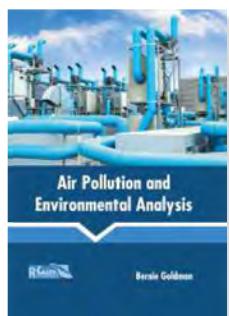


Pollution

Sheryl McMillan	ISBN 978-1-63239-840-6	\$142.00 US	2017	Book Size 7.75"×10.5"	242pp. Colored	Hardback
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Water Pollution

A form of environmental degradation that occurs when pollutants are directly or indirectly released into water without adequate treatment is known as water pollution. It is also referred to as the contamination of water bodies. The aim of this book is to present researches that have transformed this discipline and aided its advancement. It elucidates in detail the causes of water pollution along with the feasible solution to the problem. The text elaborately mentions how pathogens, organic and inorganic containments are threatening and challenging the water and its resources. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.



Air Pollution

Bernie Goldman	ISBN 978-1-63239-839-0	\$142.00 US	2017	Book Size 7.75"×10.5"	241pp. Colored	Hardback
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Air Pollution and Environmental Analysis

This text will discuss in detail the various problems faced by environmentalists while controlling air pollution. It will provide thorough information about the control strategies used to restrict air pollution. Air is an essential part for life sustenance on earth and therefore, controlling its degradation is the need of the hour. To achieve the goal of pollution free air, it is important to device new laws, regulations, techniques and methods. This book explores all the important aspects of this subject in the present day scenario. It strives to provide a fair idea about air pollution control and to help develop a better understanding of the latest advances within this field. As this area is emerging at a rapid pace, the contents of this text will help the readers understand the modern concepts and applications of the subject. Students, researchers, experts, professionals and anyone else associated with this field will benefit alike from this book.



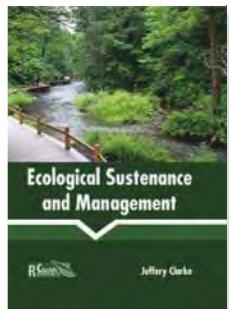
Climate and Weather

Giselle Tang	ISBN 978-1-63239-834-5	\$135.00 US	2017	Book Size 8.5"×11"	235pp. Colored	Hardback
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Climate Change and Ecotoxicology

Climate change is a growing threat to the environment. This book on climate change and ecotoxicology deals with the relationship between the release of organic pollutants such as chlorofluorocarbon and aerosols and the damage caused by them through the phenomenon categorized as climate change. Research within ecotoxicology brings forward the exact nature and extent of destruction that greenhouse gases cause and suggests remedies and mitigation measures. This book, which seeks to incorporate the latest information on climate change mitigation, will be of great help to students and researchers of environmental design, environmental technology and waste management. This book explores all the important aspects of climate change in the present day scenario. The various sub-fields of ecotoxicology and climate change along with technological progress that have future implications are glanced at in this book. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject.

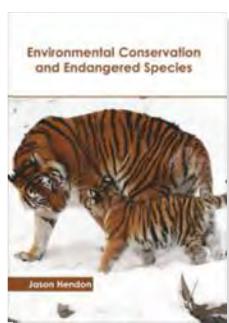
Environmental Sciences



Jeffery Clarke	ISBN 978-1-63239-828-4	\$145.00 US	2017	Book Size 7.75"×10.5"	255pp. Colored	Sustainability Hardback
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Ecological Sustenance and Management

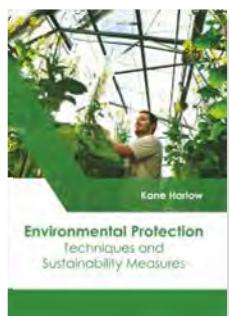
Sustainable development is defined as a process of sustaining the environment by meeting the needs of the present generation without compromising the ability of the future to meet their own needs. In the current scenario, ecological sustenance and management is of utmost importance because of the rapid depletion of resources. This book will shed light on the various techniques for ecological sustenance and management. The text is compiled in such a manner, that it will provide an in-depth knowledge about the theory and practice of ecological-management through processes which involve strategies and techniques like adaptive management, natural resource management, and strategic management, etc. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts and applications of ecological sustenance.



Jason Hendon	ISBN 978-1-63239-825-3	\$150.00 US	2017	Book Size 8.5"×11"	264pp. Colored	Sustainability Hardback
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Environmental Conservation and Endangered Species

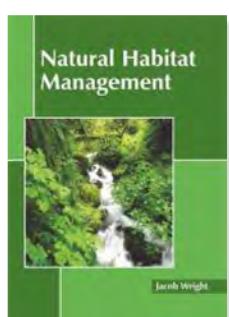
This book provides comprehensive insights into the field of ecological conservation and endangered species. It also focuses on the interrelation between the two. Species of plants and animals at the risk of extinction are put under the bracket of endangered species. This book discusses the fundamentals as well as modern approaches of conservation and preservation of the ecosystem. It aims to highlight the different methods to ensure protection of endangered species. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area in a comprehensible and lucid manner. The book studies, analyses and upholds the pillars of conservation of endangered species and its utmost significance in modern times. It is a complete source of knowledge on the present status of this important field.



Kane Harlow	ISBN 978-1-63239-875-8	\$145.00 US	2017	Book Size 8.5"×11"	246pp. Colored	Sustainability Hardback
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Environmental Protection: Techniques and Sustainability Measures

Environmental protection is defined as a set of processes that protect the quality of the environment in the face of pollution and harmful contaminants. This book on environmental protection deals with the various approaches that forefront environmental conservation and ecosystem monitoring. Environmental protection uses methods such as computational analysis and population dynamics assessment for its research. This book unfolds the innovative aspects of environmental protection which will be crucial for the progress of this field in the future. This book elucidates new techniques and their applications in a multidisciplinary approach. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It will provide comprehensive knowledge to the readers.

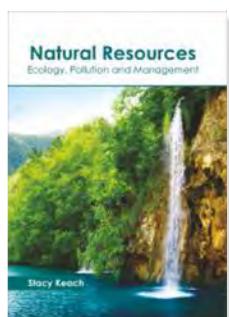


Jacob Wright	ISBN 978-1-63239-818-5	\$142.00 US	2017	Book Size 8.5"×11"	242pp. Colored	Sustainability Hardback
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Natural Habitat Management

Natural habitat management is defined as the conservation and preservation of natural habitat of plant and animal species that rely on conservation programs to survive and repopulate in a given area. Rapid urbanization has fueled the study of habitat management and the migration of wildlife in the face of loss of land has become a cause for concern. This book is aimed at readers who are interested in the study of forest ecology, land management and habitat development. This book elucidates the concepts and innovative models around prospective developments with respect from natural resources management. It will also provide interesting topics for research which interested readers can take up. This book is appropriate for students seeking detailed information in this area as well as experts.

Environmental Sciences



Stacy Keach

ISBN
978-1-63239-824-6

\$135.00 US

2017

Book Size
8.5"×11"

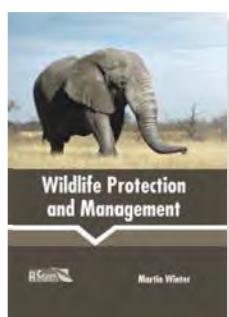
235pp.
Colored

Hardback

Sustainability

Natural Resources: Ecology, Pollution and Management

There has been a long standing debate on unequal allocation of resources owing to the increasing scarcity and shortages. This book covers in detail some existent theories and innovative concepts revolving around natural resources, its challenges and its different aspects like ecology, pollution and management. It aims to provide comprehensive details on the multiple techniques of resource management and ecosystem preservation. The text has addressed the burning issue of the depletion of natural resources. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline. As this field is emerging and rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject by presenting researches and case studies contributed by experts from across the globe.



Martin Winter

ISBN
978-1-63239-826-0

\$150.00 US

2017

Book Size
7.75"×10.5"

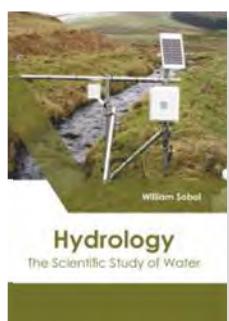
262pp.
Colored

Hardback

Sustainability

Wildlife Protection and Management

Wildlife protection is defined as the practice of protecting and preserving the wild plants and animals along with their habitat to ensure its safety for the future generation. Management of wildlife comprises of different strategies and techniques undertaken by different organizations and institutions to ensure safety and protection. Some of the diverse topics covered in this book address the varied branches that fall under this category. This book covers wide ranging topics including the major threats and dangers to wildlife like climate change, deforestation, over exploitation of wildlife species, etc. This book is a complete source of knowledge on the present status of this important field. It will serve as available source of reference for graduate and post graduate students.



William Sobol

ISBN
978-1-63239-869-7

\$132.00 US

2017

Book Size
8.5"×11"

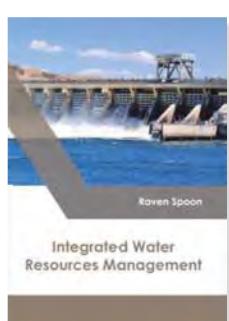
223pp.
Colored

Hardback

Water Management

Hydrology: The Scientific Study of Water

The book presents researches and studies performed by experts across the globe in the field of hydrological sciences. Hydrological science is the study of the movement and distribution of water sources. With an increase in the world's demand for energy sources, there is a growing risk of depletion of our water resources. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the field of hydrology in recent times. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. It includes contributions of experts and scientists, which will provide innovative insights into this field.



Raven Spoon

ISBN
978-1-63239-876-5

\$140.00 US

2017

Book Size
8.5"×11"

237pp.
Colored

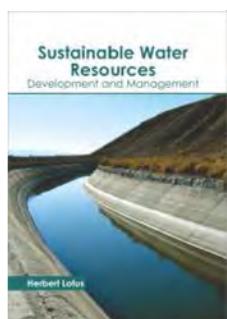
Hardback

Water Management

Integrated Water Resources Management

Water resources management is the engineering of landscapes and built-environments that regulate and control water resources. It is a very important branch of civil engineering. This book on integrated water management discusses the safe-storage and transportation of water from natural channels while keeping in mind environmental impacts. The contents in this book seek to address both the conceptual aspects of water resource planning and management as well as its practical approaches. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of water resource management. It presents the complex subject of water management in the most comprehensible and easy to understand language. This text is appropriate for students seeking detailed information in this area as well as for experts.

Environmental Sciences



Herbert Lotus

ISBN
978-1-63239-838-3

\$150.00 US

2017

Book Size
8.5"×11"

Water Management

260pp.
Colored

Hardback

Sustainable Water Resources: Development and Management

This book elucidates the concepts and innovative models around prospective developments with respect to sustainable water resources. Water crisis is a major concern of today's world. Therefore, the need for sustainable water resources is an essential one. This book will give insights into the practice of managing, planning and distribution techniques required for the optimum utilization of water resources. This book includes some of the vital pieces of work being conducted across the world, on various topics related to this area. It discusses the fundamentals as well as modern approaches of this field. It unfolds the innovative aspects revolving around sustainable management of water resources which will be crucial for the progress of this area in the future. Scientists and students actively engaged in this field will find this text full of crucial and unexplored concepts.



Victor Bonn

ISBN
978-1-63239-886-4

\$142.00 US

2017

Book Size
7"×10"

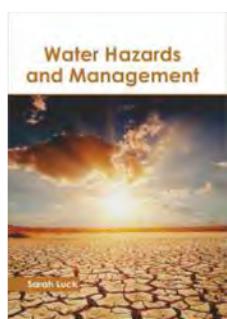
Water Management

242pp.
Colored

Hardback

Waste Management and Environmental Health

Waste management refers to the processes, methods and tools that are used in the handling and management of waste. This book on waste management deals with the challenges of waste accumulation and its increasing adverse impact on environmental health. Waste management techniques seek to convert potentially hazardous material into usable substances while reducing the overall negative impacts. Contents in this book highlight the various methods and technologies that are used in turning hazardous waste into biodegradable substances and promoting the health and sustainability of the environment. This book attempts to assist those with a goal of delving into the fields of waste management and ecotoxicology. It is a collective contribution of a renowned group of international experts. This book is a resource guide for experts as well as students.



Sarah Luck

ISBN
978-1-63239-827-7

\$150.00 US

2017

Book Size
8.5"×11"

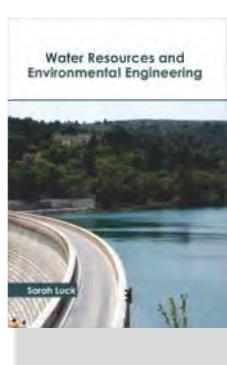
Water Management

261pp.
Colored

Hardback

Water Hazards and Management

The hazards related to water are called water hazards; they are a subset of natural hazards. The planning and management of water resources for the judicious utilization of water is known as water resource management. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of water management and water hazards. It aims to shed light on the different techniques that could be useful in water management especially in the urban setting where the demand for water and its resources are soaring high. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area. It includes contributions of experts and scientists which will provide innovative insights into this area of study.



Sarah Luck

ISBN
978-1-63239-841-3

\$135.00 US

2017

Book Size
8.5"×11"

Water Management

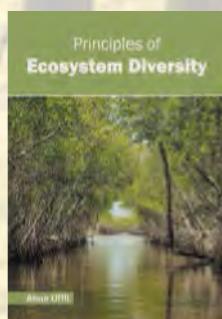
231pp.
Colored

Hardback

Water Resources and Environmental Engineering

Environmental engineering studies the causes and impacts of environmental factors which negatively affect living organisms. It also delves deep into the activities leading to the deterioration of the present quality of the environment. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in this field. The text strives to shed light on the varied applications and techniques used by the environmental engineers to combat water pollution like municipal water supply, industrial waste water treatment, etc. It will serve as an invaluable source of information for those seeking in-depth knowledge about the relationship between water resources and environmental engineering. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject. It is a resource guide for experts as well as students.

Environmental Sciences

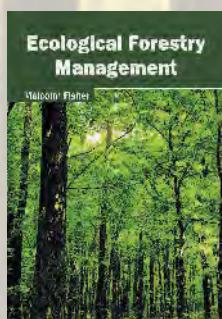


Ecosystems

Anne Offit	ISBN 978-1-63239-647-1	\$150.00 US	2016	Book Size 8.5"x11"	262pp. Colored	Hardback
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Principles of Ecosystem Diversity

Ecosystem diversity refers to the study of the various types of ecosystems found on the planet earth. It deals with the different terrestrial and aquatic ecosystems and studies the diversity found in both. This book talks about the various principles related to ecosystem diversity. It sheds light on the basic to the most complex variations present in different ecosystems. This book includes contributions of experts and scientists which will provide innovative insights into this field. The extensive content of this book provides the readers with a thorough understanding of the subject. It will serve as a reference to a broad spectrum of readers including ecologists, biologists, environmentalists, researchers and students.

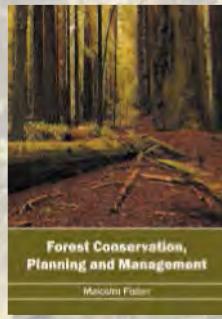


Forestry

Malcolm Fisher	ISBN 978-1-63239-708-9	\$155.00 US	2016	Book Size 8.5"x11"	298pp. Colored	Hardback
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Ecological Forestry Management

Forestry is the practice of managing, planning, using, conserving and preserving the forests. Forestry management deals with administrating all the legal, social, scientific and technological aspects of forest regulation. It also includes managing urban values, wilderness, wood products, forest genetic resources, etc. This book traces the progress of this field and highlights some of its key concepts and applications. It unravels the recent studies conducted in this area. The topics covered in this book will provide the readers new insights in the subject. It is an essential guide for both academicians and those who wish to pursue this discipline further.

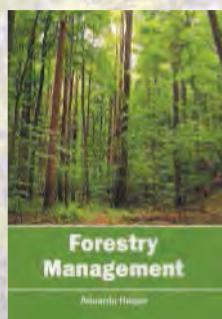


Forestry

Malcolm Fisher	ISBN 978-1-63239-682-2	\$155.00 US	2016	Book Size 8.5"x11"	291pp. Colored	Hardback
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Forest Conservation, Planning and Management

Forest conservation, planning and management are the fields of forestry dealing with the preservation and optimum utilization of forest resource. Environmental pollution has led to increased research in the areas of forest conservation and management. It ensures protection of wildlife, forest generic resource, fish, water and wood products, among many other things. This book will unravel the recent studies in this field. It will outline the processes and applications of this subject in a detailed manner. The topics included in this text are of utmost significance and bound to provide incredible insights to readers. It will serve as a valuable source of reference for graduate and post-graduate students.



Forestry

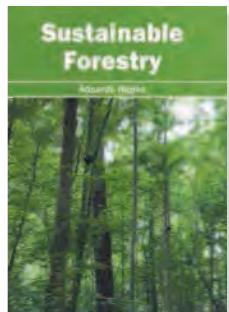
Aduardo Hapke	ISBN 978-1-63239-714-0	\$155.00 US	2016	Book Size 8.5"x11"	299pp. Colored	Hardback
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Forestry Management

The book aims to shed light on some of the unexplored aspects of forestry management and the recent researches in this field. It is a science that is mainly concerned with conservation, management, and creation of forests. Human kind is heavily dependent on forest resources such as fiber for paper, timber for furniture and a lot more. These activities result in reduction of forest cover, and that is where forest management tries to strike a balance between demand, supply and replenishment. Some of the important topics explained in this book are multipurpose forest inventory, conservation value, spatial pattern of tree diversity, biodiversity, etc. It attempts to understand the multiple branches that fall under the discipline of forestry management and how such concepts have practical applications. Experts and students actively engaged in this field will find this book full of crucial and unexplored concepts.

Environmental Sciences

Forestry



Aduardo Hapke

ISBN
978-1-63239-726-3

\$155.00 US

2016

Book Size
8.5"x11"

303pp.
Colored

Hardback

Sustainable Forestry

This book deals with the topic of sustainable management of forests. It refers to the practice of maintaining and preserving the forest. It works on managing three basic spheres that are ecology, socio-culture and economy. Nurturing the forest will benefit the environment as a whole. This book traces all the developments made in this field. It will give valuable insights into the concepts and innovative techniques used for sustainable forestry. The topics covered in this book will offer the readers a better understanding related to this field. It includes the contributions of experts and scientists which will help the readers keep pace with the latest advances in this field. Thus, this book is a beneficial source of reference for students and experts alike.

Environmental Management



Victor Bonn

ISBN
978-1-63239-630-3

\$140.00 US

2016

Book Size
8.5"x11"

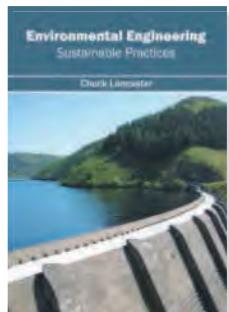
221pp.
Colored

Hardback

Environmental Management: Challenges and Concerns

Environmental management is the study of the impact of all human activities on the environment. It focuses on conserving and maintaining the ecosystem while taking into the account the technological, ethical and economic factors involved. This book discusses the scope and significance of this field in the current scenario. It also presents some sustainable practices for implementation. This book elucidates the theories and practical applications, through case studies related to all the contemporary topics of relevance to environmental management. It picks up individual branches and explains their need and impacts in the context of growing social and political invasion in the natural realm. This book is appropriate for students seeking detailed information in this area as well as for experts, environmentalists, ecologists, conservationists and policymakers.

Environmental Engineering



Chuck Lancaster

ISBN
978-1-63239-639-6

\$145.00 US

2016

Book Size
8.5"x11"

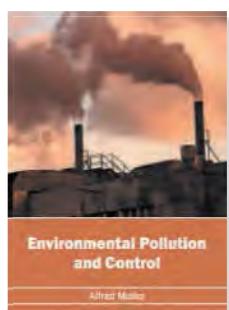
249pp.
Colored

Hardback

Environmental Engineering: Sustainable Practices

This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of environmental engineering. It is the branch of engineering that uses the principles and practices of engineering to protect the environment and reduce the harmful effects of human activities on the environment. The various sub-fields of environmental engineering along with technological progress that have future implications are glanced at in this book. The objective of this text is to provide a comprehensive overview of this field and its applications. It also sheds light on some of the unexplored aspects of environmental engineering. It deals with recycling, waste disposal, waste water management, air pollution control, industrial hygiene, radiation protection and environmental sustainability. This book will help the readers in keeping pace with the rapid changes in this area of study.

Pollution



Alfred Muller

ISBN
978-1-63239-627-3

\$132.00 US

2016

Book Size
8.5"x11"

209pp.
Colored

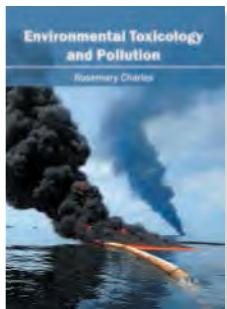
Hardback

Environmental Pollution and Control

Environmental pollution is a growing concern of environmentalists, scientists and ecologists around the globe. It refers to the contamination of natural resources due to harmful chemicals, paint, plastic and other pollutants. The effects of environmental pollution are becoming very severe and therefore, its immediate control is a matter of utmost importance. This book covers in detail some existent theories and innovative concepts revolving around environmental pollution control. It is a compilation of topics, ranging from the basic to the most complex advancements in this field. It is appropriate for students seeking detailed information in this area as well as for experts. Thus, it will serve as a valuable source of reference for readers and contribute to the progress of this field.

Environmental Sciences

Pollution



Rosemary Charles

ISBN
978-1-63239-663-1

\$150.00 US

2016

Book Size
8.5"x11"

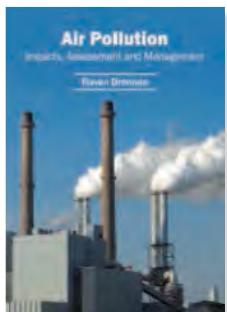
274pp.
Colored

Hardback

Environmental Toxicology and Pollution

Environmental toxicology studies the harmful effects of any foreign substance whether physical or chemical. It combines principles from different fields such as biology, chemistry, etc. to study the adverse effects of chemicals on living beings. In the present times environmental pollution is the greatest contributor to the toxicity of the surroundings. This book unravels the recent studies in the field of environmental toxicology and pollution. Most of the topics introduced in this book cover new techniques for mitigation and conservation. It aims to serve as a resource guide and contribute to the growth of the discipline. The readers would gain knowledge that would broaden their perspective about this field. It is a ripe text for environmentalists, toxicologists, engineers, researchers, professionals and students engaged in this area.

Air Pollution



Raven Brennan

ISBN
978-1-63239-769-0

\$140.00 US

2016

Book Size
8.5"x11"

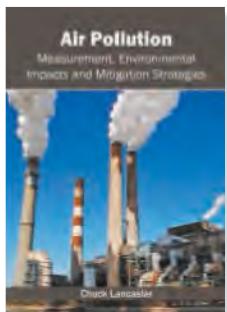
236pp.
Colored

Hardback

Air Pollution: Impacts, Assessment and Management

Advancements in automobile technologies, excessive use of machinery and continuous development in the infrastructure has led to a serious problem of air pollution. It is caused by the emission of harmful gases and pollutants like sulfur oxides, carbon monoxides, nitrogen oxides, peroxyacetyl nitrate, etc. in the environment by industries, cars, manufacturing factories, burning of biomass fuel, etc. This book will discuss in detail the various causes and effects of air pollution. The topics included in it will give a detailed explanation of the advancements and new techniques being devised to control this issue. It covers some existent theories and concepts revolving around air pollution and its control. Different approaches, evaluations, methodologies and advanced studies on this topic have been included in this text. Students, researchers, environmentalists, ecologists, conservationists and all associated with this area will benefit alike from this book.

Air Pollution



Chuck Lancaster

ISBN
978-1-63239-770-6

\$150.00 US

2016

Book Size
8.5"x11"

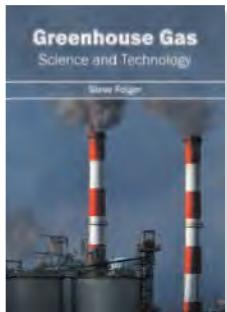
272pp.
Colored

Hardback

Air Pollution: Measurement, Environmental Impacts and Mitigation Strategies

Air pollution refers to the presence of biological molecules, particulate materials, or any other hazardous material in the atmosphere. The effluents present in the atmosphere lead to reduced quality of air. The pollutants present in air can have adverse effect on human health and our ecosystem. Sulphur oxides, nitrogen oxides, volatile organic compounds, particulates, odors, chlorofluorocarbons and radioactive pollutants are some of the primary air pollutants. This book explores all the important aspects of air pollution in the present day scenario. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. This book will help new researchers by foregrounding their knowledge in this branch. It includes some of the vital pieces of work being conducted by experts across the globe on various topics related to air pollution. This text delves into the measurement techniques, environmental impacts and strategies to control and reduce air pollution. It is a ripe text for environmentalists, climatologists, ecologists, researchers and students.

Greenhouse Gas



Steve Folger

ISBN
978-1-63239-759-1

\$127.00 US

2016

Book Size
8.5"x11"

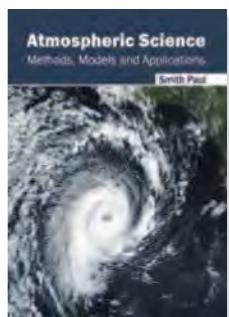
187pp.
Colored

Hardback

Greenhouse Gas: Science and Technology

Greenhouse gases have the capability to trap heat and emit radiation within thermal infrared range. Carbon dioxide, nitrous oxide, methane and water vapor are some of the primary greenhouse gases present in our atmosphere. The concentration of greenhouse gases has increased considerably since industrialization. Due to their tendency of absorption and emission of heat in the earth's atmosphere, they tend to be responsible for melting glaciers, seasonal variations, changing weather patterns and ever increasing average global temperatures. This book consists of contributions made by international experts. It attempts to understand the multiple branches that fall under this discipline and how such concepts have practical applications. Also included in this book is a detailed explanation of the diverse aspects related to greenhouse gases. It will serve as a reference to a broad spectrum of readers.

Environmental Sciences

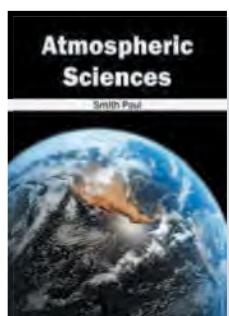


Climate and Weather

Smith Paul	ISBN 978-1-63239-626-6	\$132.00 US	2016	Book Size 8.5"x11"	212pp. Colored	Hardback
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Atmospheric Science: Methods, Models and Applications

Different layers of gases in combination constitute atmosphere, these layers become thinner with the increase in height. Atmospheric science is a wider term used for studying earth's atmosphere, chemical reactions in stratosphere, gaseous exchange with the biosphere, lifecycle of aerosols, regional and global air pollution, and fluctuations in atmospheric composition. This book discusses some important topics such as air pollution, gas dispersion in atmosphere, seasonal variations, atmospheric chemistry, atmospheric physics, air quality, climate interactions, meteorology, etc. This book includes some of the vital pieces of work being conducted across the world, on various topics related to this field. It will provide comprehensive knowledge to the readers. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. It is a beneficial read for climatologists, meteorologists, planetologists, professionals and students.

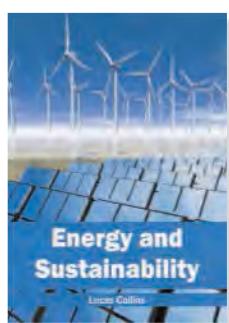


Climate and Weather

Smith Paul	ISBN 978-1-63239-628-0	\$132.00 US	2016	Book Size 8.5"x11"	216pp. Colored	Hardback
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Atmospheric Sciences

The various sub-fields of atmospheric sciences along with latest technological progress that have future implications are glanced at in this book. Some of the diverse topics covered in this book address the varied branches that fall under this category. It studies earth's atmosphere, processes, the effects of the atmosphere on the other systems, and the effects that other systems have on the atmosphere and includes meteorology, climatology, and aeronomy. It includes some of the vital pieces of work being conducted across the world, on various topics related to atmospheric sciences. It presents researches and studies performed by veterans across the globe. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area.



Sustainability

Lucas Collins	ISBN 978-1-63239-710-2	\$155.00 US	2016	Book Size 8.5"x11"	296pp. Colored	Hardback
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Energy and Sustainability

This book explores the field of energy and its sustainable use. Energy is an essential requirement of today's world. But this dire requirement results in unstable usage and wastage. Thus, using energy like hydroelectricity, solar energy, wind energy, etc. which is sustainable is a wise choice. This book covers in detail some existent theories and innovative concepts revolving around sustainable energy. It aims to present path-breaking techniques that transformed this field. From theories to research to practical applications, case studies related to all the contemporary topics of relevance to this field have been included in this book. It will provide comprehensive knowledge to the readers and prove to be an essential guide for both academicians and experts.



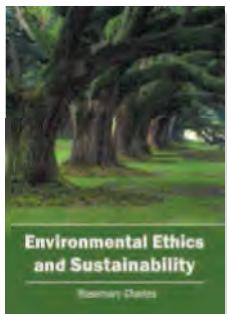
Sustainability

Aduardo Hapke	ISBN 978-1-63239-754-6	\$155.00 US	2016	Book Size 8.5"x11"	293pp. Colored	Hardback
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Environmental Conservation

Conservation is the act of preserving anything in its present state and preventing further degradation. The environment is constituted by all the factors present in our surroundings and ecological balance is the key to conserving it. However, due to increasing industrialization, population and interference with nature, many valued species have become extinct. There needs to be a balance between the exploitation and replenishment of resources. It must also be ensured that natural habitats do not suffer any further. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of environmental conservation. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impact as a modern tool for the growth of this discipline. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge. The book will serve as a resource guide for environmentalists, ecologists, conservationists, researchers and students alike.

Environmental Sciences

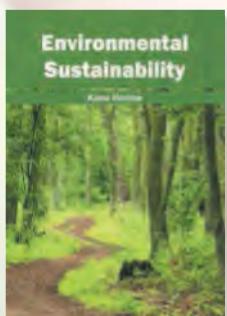


Rosemary Charles | ISBN 978-1-63239-669-3 | \$150.00 US | 2016 | Book Size 8.5"x11" | 278pp. Colored | Hardback

Sustainability

Environmental Ethics and Sustainability

Environmental ethics is the branch of philosophy that takes a broader perspective of relation of human beings not only to the living species but also with the non-living surroundings. It impacts various other disciplines such as ecotheology, environmental law, environmental sociology, ecology, ecological economics and environmental geography. Sustainability is the ability to sustain the present state of the environment for years to come. While ethics form the rules sustainability tries to implement them for the protection and improvement of environmental condition. The objective of this book is to give a general view of the different areas of ethics and sustainability of environment, and its applications. This book studies, analyses and upholds the pillars of environmental ethics and sustainability and their utmost significance in modern times. It will serve as a reference to a broad spectrum of readers including environmentalists, ecologists, conservationists, policy makers, professionals and students.

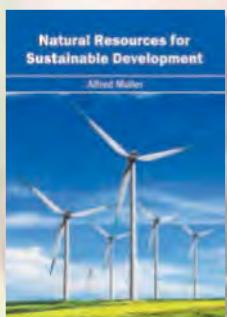


Kane Harlow | ISBN 978-1-63239-696-9 | \$155.00 US | 2016 | Book Size 8.5"x11" | 294pp. Colored | Hardback

Sustainability

Environmental Sustainability

Environmental Sustainability refers to the practice of using the resources present in the environment in such a way that we can utilize them properly and wisely to save it for our future generations. Sustainability has become the most essential process for the present times. This book unravels the recent studies in this field and also provides crucial topics for research which interested readers can take up. The book studies, analyses and upholds the pillars of environmental sustainability and its utmost significance in modern times. It will help the readers in keeping pace with the rapid changes in this field and therefore, will serve as a valuable source of reference for students and experts alike.

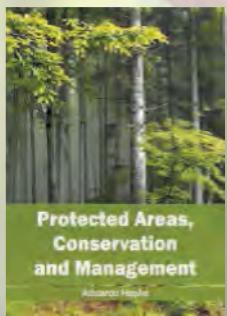


Alfred Muller | ISBN 978-1-63239-695-2 | \$155.00 US | 2016 | Book Size 8.5"x11" | 291pp. Colored | Hardback

Sustainability

Natural Resources for Sustainable Development

Natural resources such as land, plants, water, etc. have been consumed by humans since the dawn of civilization. The rise of industrialization has led to the exploitation of these resources which has negatively impacted our environment. Thus, judicial management of these valuable resources is the need of the hour. This book discusses various important aspects related to natural resources and their various types such as mineral resources, energy resources, land resources, plant and animal resources, genetic resources, ecology resources, etc. It also discusses resource management and policy, resources conservation and recycling. This book provides significant information of this discipline to help develop a good understanding of natural resources in the context of sustainable development and related fields. Those in search of information to further their knowledge will be greatly assisted by it. This text will serve as a resource guide for environmentalists, ecologists, conservationists, policy makers, scientists and students alike.



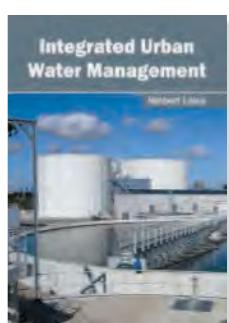
Aduardo Hapke | ISBN 978-1-63239-756-0 | \$155.00 US | 2016 | Book Size 8.5"x11" | 300pp. Colored | Hardback

Sustainability

Protected Areas, Conservation and Management

Protected areas refer to the areas which are placed under protection because of their cultural, environmental or natural value. These areas are protected because they need to be preserved and conserved. Protection also limits the exploitation of natural resources. This book discusses in detail the laws and regulations which are used to manage and conserve these areas. It also elucidates new concepts and theories that are emerging in this area. It will also give detailed explanations of the various protection policies and challenges in this subject. Coherent flow of topics, reader-friendly language and extensive use of examples from across the globe make this book a valuable source of reference for readers. It is a ripe text for environmentalists, ecologists, conservationists, professionals, researchers, policymakers and students associated with the field.

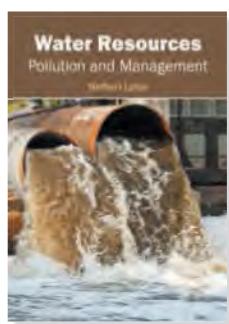
Environmental Sciences



Water Management					
Herbert Lotus	ISBN 978-1-63239-760-7	\$127.00 US	2016	Book Size 8.5"x11"	186pp. Colored Hardback

Integrated Urban Water Management

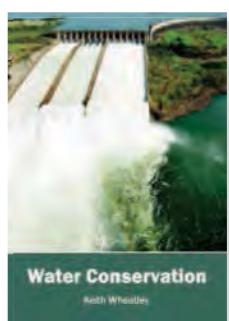
Water is essential for all life forms. Although it is available in abundance, portable water forms a small percentage of all the water resources available. Water management refers to the practice of managing, developing, distributing and planning optimum use of water resources. As population and pollution are increasing rapidly, judicial management of water is the need of the hour. This book traces the progress of this field and highlights some of its key concepts and applications. It strives to provide a fair idea about water management and develop a better understanding of the latest advances within this field. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts. Those in search of information to further their knowledge in this area will be greatly assisted by this book.



Water Management					
Herbert Lotus	ISBN 978-1-63239-761-4	\$127.00 US	2016	Book Size 8.5"x11"	190pp. Colored Hardback

Water Resources: Pollution and Management

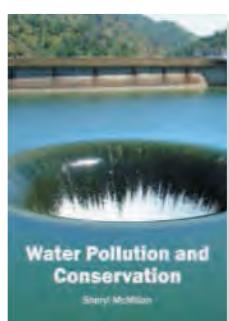
This book provides comprehensive insights into the types of water resources and their uses. Water resources include all the sources of water present on earth. If we compare the proportion of fresh water with salty water, it appears to be negligible. Although freshwater is a renewable resource, the concentration of groundwater is depleting at much faster rate. Water pollution results in contamination of water resources. Pollutants may come from point or non-point sources which includes sewage treatment plants, factories, storm water, etc. Management of water pollution includes sewage treatment, industrial wastewater management, control of urban runoff, erosion, sediment control, etc. The topics included in this extensive book deal with the core aspects related to the pollution and management of water resources. It aims to shed light on some of the unexplored areas of this field. This text also includes contributions of experts from across the globe. Coherent flow of topics, reader-friendly language and extensive use of examples make this book an invaluable source of knowledge.



Water Conservation					
Keith Wheatley	ISBN 978-1-63239-648-8	\$150.00 US	2016	Book Size 8.5"x11"	265pp. Colored Hardback

Water Conservation

This book unfolds the innovative aspects of water conservation which will be crucial for the progress of this field in the future. Water conservation refers to the study and practice of optimum utilization of water. Although, the population is rapidly growing but the water as a resource is not. Thus, scientists and ecologists argue that soon our society will face a severe water crisis. Therefore, water conservation has become an essential part of our political and social reforms. This book will unravel the recent studies in the field of water conservation. It will discuss the most vital concepts and emerging trends in this field. This book will serve as a reference to a broad spectrum of readers who are interested in the field of water conservation and want to further their knowledge. It includes contributions of experts and scientists which will provide innovative insights into this field.

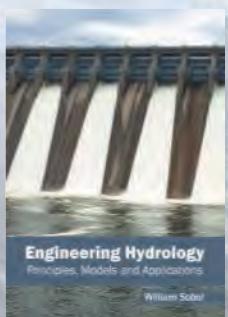


Water Conservation					
Sheryl McMillan	ISBN 978-1-63239-697-6	\$155.00 US	2016	Book Size 8.5"x11"	294pp. Colored Hardback

Water Pollution and Conservation

Water pollution is a growing concern for today's generation. It refers to the contamination of water bodies like rivers, oceans, lakes, etc. Water gets polluted when chemicals, plastic, paint and other harmful products are released in it. Due to the growing industrial sector and human population, conservation of water has become an aim of regulatory bodies. This book will discuss the various ways in which water is being polluted and the processes to clean and conserve it. The detailed content provided in this book will prove to be useful for environmentalists, engineers, students, researchers and scientists. Readers will benefit from the number of concepts and theories that have been included in this book. It will serve as a resourceful guide and contribute to their knowledge of this subject.

Environmental Sciences



Hydrology

William Sobol

ISBN
978-1-63239-653-2

\$150.00 US

2016

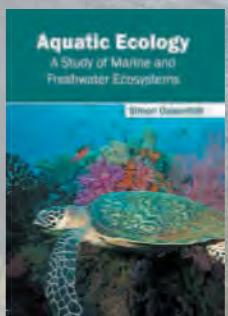
Book Size
8.5"x11"

268pp.
Colored

Hardback

Engineering Hydrology: Principles, Models and Applications

Water is one of the most important and abundant resources available on earth. Although water covers almost seventy one percent of earth but the portable water is scarce and unevenly distributed. Hydrology is the study of quality, distribution of water on earth and other planets of the planetary system. Engineering hydrology is the applied part of hydrology and one of the sub-fields of civil engineering. It commonly includes water supply, urban drainage, wastewater treatment, river management and coastal protection, preventing floods and lessening the effects of floods, droughts and other natural disasters, etc. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the field of hydrological engineering. It explains the principles, models and applications of this field in detail. This book explores all the important aspects of this subject in the present day scenario and also provides a comprehensive overview of the field. Scientists and students actively engaged in this area will find this book full of crucial and unexplored concepts.



Marine Biology

Simon Oakenfold

ISBN
978-1-63239-635-8

\$140.00 US

2016

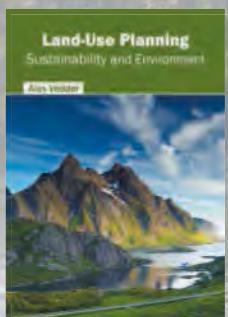
Book Size
8.5"x11"

225pp.
Colored

Hardback

Aquatic Ecology: A Study of Marine and Freshwater Ecosystems

Ecology is a science that studies the interaction of an organism with its surroundings. Aquatic ecology in particular deals with bodies of water such as oceans, ponds, estuaries, lakes, streams and rivers. Types of ecosystems are quite diverse in different aquatic systems; they vary immensely in their composition of plants, animals, minerals, temperature, etc. There are a large number of areas that are studied under aquatic ecology including, functions and characteristics of various aquatic ecosystems, impact of human activity on aquatic systems, etc. This book, with its detailed analysis and data, will prove immensely beneficial to professionals and students involved in this area at various levels. It will help the readers in keeping pace with the rapid progress in this field.



Landscape Architecture

Alex Vedder

ISBN
978-1-63239-713-3

\$155.00 US

2016

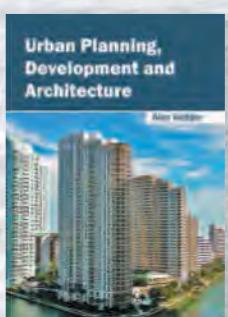
Book Size
8.5"x11"

297pp.
Colored

Hardback

Land-Use Planning: Sustainability and Environment

Land is a limited resource and as the world population is rising consistently, judicious use of this resource is of prime importance. Land-use requires changing the already existing natural environmental setting into fields, pastures, buildings, road networks, etc. These activities impact the environment adversely and pose many problems such as soil erosion, salination, soil degradation and desertification. This book includes theories for sustainable management of land. It covers researches contributed by veterans from all parts of the world to provide a global and comprehensive overview of the subject. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of environmental land-use, planning and management. It will serve as a valuable reference guide for readers.



Landscape Architecture

Alex Vedder

ISBN
978-1-63239-671-6

\$155.00 US

2016

Book Size
8.5"x11"

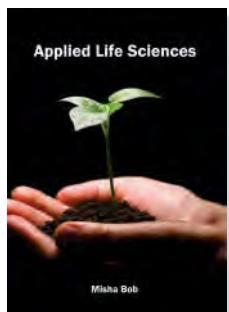
281pp.
Colored

Hardback

Urban Planning, Development and Architecture

This book deals with the field of urban planning and development. It also talks about the architectural advances in relation to the same. Urban planning refers to the process related with optimum utilization of land and other resources available on earth. It is the study of developing the infrastructure, telecommunication, transportation in such a way that it does not harm the environment. This book discusses the fundamentals as well as modern approaches of urban planning, development and architecture. While understanding the long-term perspectives of the topics, this book makes an effort in highlighting their impact as a modern tool for the growth of this discipline. It is an appropriate text for students seeking detailed information in this area as well as for experts.

Environmental Sciences



Environmental Sciences

Misha Bob	ISBN 978-1-63239-077-6	\$160.00 US	2015	Book Size 6"x9"	449pp. Colored	Hardback
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Applied Life Sciences

Significant advancements are continually being made in the study of life sciences and their diverse applications for sustainable development and ecosystem preservation. This book presents discourses and discussions on various issues in applied life sciences that were presented and conferred upon in an International Conference on Applied Life Sciences. It was organized by the International Society for Applied Life Sciences (ISALS). ISALS assists experts to publish their studies on discoveries and advancements in its science journals.

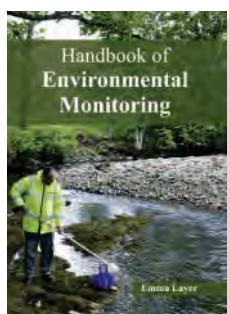


Environmental Sciences

Emma Layer	ISBN 978-1-63239-314-2	\$150.00 US	2015	Book Size 6"x9"	373pp. Colored	Hardback
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Environmental Monitoring

Environmental monitoring is an important and extensive process. This book includes contributions by renowned scientists and researchers from across the globe. It presents current research advances and developments in the area of environmental monitoring to a worldwide audience of technicians, scientists, environmental educators, administrators, managers, students and those interested in environment conservation. The book discusses topics like biomonitoring, ecotoxicological studies, and usage of wireless sensor networks or Geo-sensor webs in this field, among others.

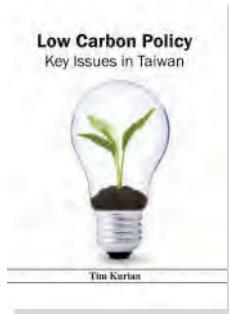


Environmental Sciences

Emma Layer	ISBN 978-1-63239-391-3	\$90.00 US	2015	Book Size 6"x9"	181pp. Colored	Hardback
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Handbook of Environmental Monitoring

This book includes contributions by renowned scientists and researchers from across the globe. It presents current research advances and developments in the area of environmental monitoring to a worldwide audience of technicians, scientists, environmental educators, administrators, managers, students and those interested in the environment. The book discusses topics such as usage of wireless sensor networks or geo-sensor webs in the field of environmental monitoring.



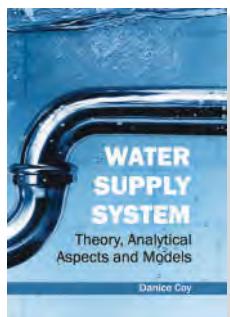
Environmental Sciences

Tim Kurian	ISBN 978-1-63239-456-9	\$80.00 US	2015	Book Size 6"x9"	105pp. Colored	Hardback
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Low Carbon Policy: Key Issues in Taiwan

A descriptive account on the low carbon policy and the key issues in Taiwan has been presented in this insightful book. Taiwan, a small Asian country, is well-known for its high-tech industry. However, being a member of the global village, Taiwan understands its responsibility in curtailing carbon emissions. The book showcases Taiwan's transformation from a high-tech to a reduced carbon island. It discusses Taiwan's policies for reduced carbon development in the past 10 years and administers an econometric approach to assess Taiwan's sector department CO₂ emissions. It also presents how the shift in environment affects the economic growth of Taiwan and also gives two successful examples of low-carbon pilot regions in Taiwan.

Environmental Sciences

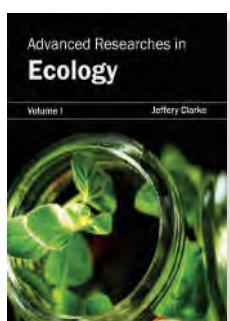


Environmental Sciences

Danice Coy	ISBN 978-1-63239-621-1	\$90.00 US	2015	Book Size 6"x9"	155pp. Colored	Hardback
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Water Supply System: Theory, Analytical Aspects and Models

This book is a comprehensive study of modern and traditional water supply systems. A water supply system is an interrelated compilation of sources, pipes, and hydraulic control elements delivering set water quantities at preferred pressures and water qualities. This book incorporates chosen topics on theory, review and realistic function models for water supply systems study, including, strategy for temporary analysis, sustainable management of local water supply systems, infrastructure asset administration, optimal pump preparation, demand improbability, errors in water meter measuring and indicators for water mains treatment.



Ecology

Jeffery Clarke	ISBN 978-1-63239-026-4	\$150.00 US	2015	Book Size 8.5"x11"	214pp. Colored	Hardback
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Advanced Researches in Ecology: Volume I

Ecology has emerged as a dynamic field of study in the recent past. It is an interdisciplinary science which studies in detail the varied types of organisms and their interaction with their environment. This book presents the most recent researches and up-to-date data from across the globe for a better understanding of the evolving concepts in this field. It delves into a series of case studies and theories which are contributing to the advancement of this discipline. It aims to serve as a resource guide for students and experts alike.

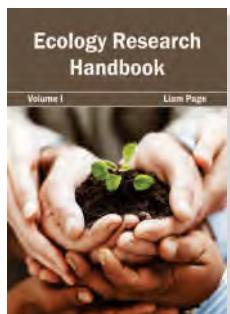


Ecology

Jeffery Clarke	ISBN 978-1-63239-027-1	\$150.00 US	2015	Book Size 8.5"x11"	227pp. Colored	Hardback
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Advanced Researches in Ecology: Volume II

Ecology has emerged as a dynamic field of study in the recent past. It is an interdisciplinary science which studies in detail the varied types of organisms and their interaction with their environment. This book presents the most recent researches and up-to-date data from across the globe for a better understanding of the evolving concepts in this field. It delves into a series of case studies and theories which are contributing to the advancement of this discipline. It aims to serve as a resource guide for students and experts alike.



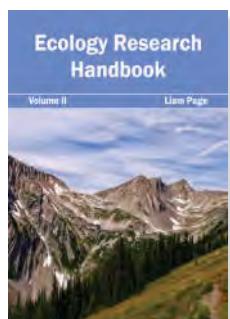
Ecology

Liam Page	ISBN 978-1-63239-159-9	\$150.00 US	2015	Book Size 8.5"x11"	189pp. Colored	Hardback
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Ecology Research Handbook: Volume I

Ecology is an interdisciplinary field of study. It incorporates fields from biology, geology, earth science among others. This book is an essential guide for those who're interested in this discipline. The researches included in this book are bound to provide incredible insights to readers, who're interested in pursuing ecology further or researching in the field.

Environmental Sciences

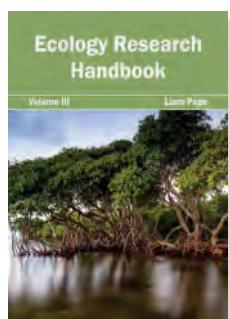


Ecology

Liam Page	ISBN 978-1-63239-160-5	\$150.00 US	2015	Book Size 8.5"x11"	201pp. Colored	Hardback
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Ecology Research Handbook: Volume II

Ecology is an interdisciplinary field of study. It incorporates fields from biology, geology, earth science among others. This book is an essential guide for those who're interested in this discipline. The researches included in this book are bound to provide incredible insights to readers, who're interested in pursuing ecology further or researching in the field.

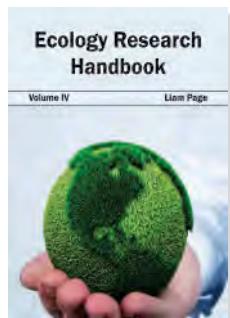


Ecology

Liam Page	ISBN 978-1-63239-161-2	\$150.00 US	2015	Book Size 8.5"x11"	200pp. Colored	Hardback
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Ecology Research Handbook: Volume III

Ecology is an interdisciplinary field of study. It incorporates fields from biology, geology, earth science among others. This book is an essential guide for those who're interested in this discipline. The researches included in this book are bound to provide incredible insights to readers, who're interested in pursuing ecology further or researching in the field.

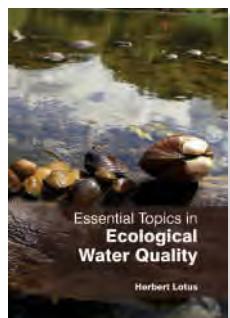


Ecology

Liam Page	ISBN 978-1-63239-162-9	\$150.00 US	2015	Book Size 8.5"x11"	214pp. Colored	Hardback
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Ecology Research Handbook: Volume IV

Ecology is an interdisciplinary field of study. It incorporates fields from biology, geology, earth science among others. This book is an essential guide for those who're interested in this discipline. The researches included in this book are bound to provide incredible insights to readers, who're interested in pursuing ecology further or researching in the field.



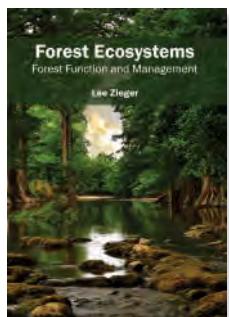
Ecology

Herbert Lotus	ISBN 978-1-63239-322-7	\$120.00 US	2015	Book Size 6"x9"	273pp. Colored	Hardback
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Essential Topics in Ecological Water Quality

The pollution of aquatic environment reduces possible uses of water, especially those that require high quality standards i.e. for drinking purposes. This book discusses different problems regarding the quality of water and also focuses on the current techniques of water treatment. The primary emphasis is on sustainable choices of water usage that prevent water quality difficulties and aim at the protection of available water resources, and the development of the aquatic ecosystems. The book contains different procedures employed for water treatment technologies.

Environmental Sciences

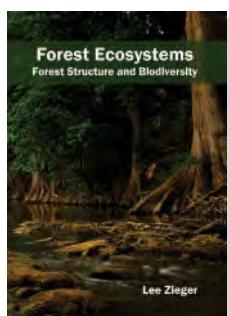


Ecology

Lee Zieger	ISBN 978-1-63239-342-5	\$120.00 US	2015	Book Size 6"x9"	298pp. Colored	Hardback
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Forest Ecosystems: Forest Function and Management

Forests are much more than a bunch of trees, contrary to popular belief. They are complicated operating systems of interrelated biological, physical and chemical elements, whose biological features have constantly evolved to preserve itself. These complex combinations of climate, soils, trees and plants result in many varied types of forests throughout the globe. Although trees are the main highlight of forest ecosystems, the vast variety of other creatures and abiotic elements in the forests indicate that there is also a need to study about these elements like soil nutrients and wildlife and consider these compounds when forming management plans. This book does not only provide information about trees, like other books, but also gives an insight into other components related to forests, such as "Forest Function – Energy, Mass and Biological Fluxes", and "Ecosystem-Level Forest Management".

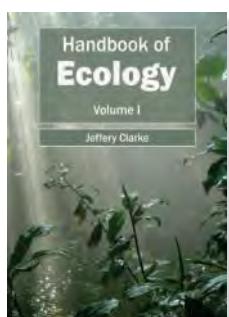


Ecology

Lee Zieger	ISBN 978-1-63239-343-2	\$90.00 US	2015	Book Size 6"x9"	190pp. Colored	Hardback
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Forest Ecosystems: Forest Structure and Biodiversity

Forests are much more than a bunch of trees, contrary to popular belief. They are complicated operating systems of interrelated biological, physical and chemical elements, whose biological features have constantly evolved to preserve itself. These complex combinations of climate, soils, trees and plants result in many varied types of forests throughout the globe. Although trees are the main highlight of forest ecosystems, the vast variety of other creatures and abiotic elements in the forests indicate that there is also a need to study about these elements like soil nutrients and wildlife and consider these compounds when forming management plans. This book does not only provide information about trees, like other books, but also gives an insight into other components related to forests, which are usually left untouched in other texts, even though they are as important as trees to maintain balance in ecology. The book discusses structure and biodiversity and examines researches done on ecological structures.

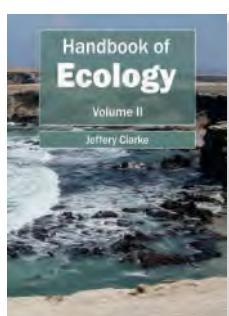


Ecology

Jeffery Clarke	ISBN 978-1-63239-387-6	\$150.00 US	2015	Book Size 8.5"x11"	213pp. Colored	Hardback
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Handbook of Ecology: Volume I

Ecology is a dynamic field. Researches are being conducted across the globe to understand this field better. This book is a compilation of contributions from international authors, ecologists, and researchers. The topics covered in this book are core subjects in ecology. The aim of this book is to present researches that have transformed this discipline and aided its advancement. All those looking to further their knowledge in this discipline will benefit from this book.



Ecology

Jeffery Clarke	ISBN 978-1-63239-388-3	\$150.00 US	2015	Book Size 8.5"x11"	220pp. Colored	Hardback
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Handbook of Ecology: Volume II

Ecology is a dynamic field. Researches are being conducted across the globe to understand this field better. This book is a compilation of contributions from international authors, ecologists, and researchers. The topics covered in this book are core subjects in ecology. The aim of this book is to present researches that have transformed this discipline and aided its advancement. All those looking to further their knowledge in this discipline will benefit from this book.

Environmental Sciences



Ecology

Loren Gilbert

ISBN
978-1-63239-510-8

\$140.00 US

2015

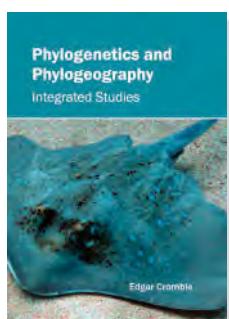
Book Size
6"x9"

335pp.
Colored

Hardback

Phenology and Climate Change

A descriptive account based on phenology and climate change has been highlighted in this up-to-date book. Phenology is referred to as the study of animal as well as plant life cycle. It is one of the most direct and obvious phenomena on our planet. The timing of phenological events offers important information for the purpose of natural resource management, carbon sequence analysis, climate change investigation, and crop and forest growth monitoring. This book elucidates current developments in the comprehension of seasonal variation in plants and animals and its interaction with climate variables. Renowned scientists in this field from across the world have contributed in this book. The information provided in this book covers topics like plant seasonality, remote sensing phenology, animal life cycle, and phenology in fruit plants. It provides the readers with an extensive analysis of phenology observations and climate effects. This book aims to stimulate further advancements in the field of phenology; monitoring, modeling as well as predicting.



Ecology

Edgar Crombie

ISBN
978-1-63239-511-5

\$90 US

2015

Book Size
6"x9"

155pp.
Colored

Hardback

Phylogenetics and Phylogeography: Integrated Studies

Phylogenetic mapping based on geographical measures is perhaps one of the most vital parts of bioscience research. Constant environmental changes have led to a distribution of organisms on land and in water. The imbalance caused by overexploitation of key species is not only leading to their extinction, but an imbalance directly affecting the ecosystem. Hence, it becomes the duty of scientists to seek methods to restore balance and rescue the endangered species from non-existence. In order to accomplish this target, species-mapping, history traits and genetic variation must be thoroughly understood. This book helps in the understanding of phylogenetics and phylogeography of a vast range of animals, ranging from disease inducing microorganisms to spiders found in tropical regions, and trees found in the Arctic tundra.



Ecology

Lee Zieger

ISBN
978-1-63239-519-1

\$110.00 US

2015

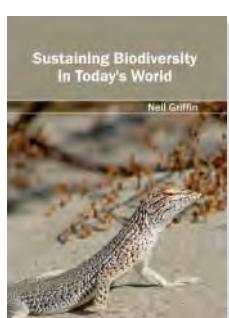
Book Size
6"x9"

238pp.
Colored

Hardback

Protected Areas Management

This book deals with the challenges faced by protected area managers and the techniques and methods to tackle them. Protected areas are the base of most national and international conservation strategies. Each of the protected areas needs a case-specific set of guidelines because of the numerous unpredictable elements in ecology matters, but a general issue in all these cases remains that of coping with human interaction. The management of these areas is full of challenges and the only way to gain understanding and achieve higher management possibilities is to exchange experiences and knowledge. Environmental managers are familiar with this fact and, along with scientists, are looking for more enhanced and novel solutions, both in relation with natural resources as well as human interactions in many issues about nature protection. The book elucidates reviews and research results on protected area management, as well as several case studies derived from across the world with the goal of enhancing management effectiveness of these areas.



Ecology

Neil Griffin

ISBN
978-1-63239-588-7

\$120.00 US

2015

Book Size
6"x9"

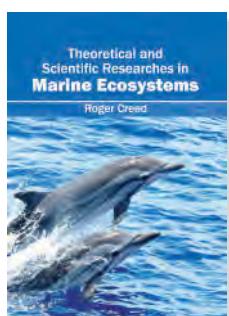
296pp.
Colored

Hardback

Sustaining Biodiversity in Today's World

This book presents a comprehensive study regarding biodiversity, its conservation and utilization. It discusses the regulation and consumption of resources to meet human demands in different spheres varying from agriculture to wildlife and exhaustible to inexhaustible resources. The objective is to fulfill human necessities and the range of life is assessed according to the variety of the species that exist. Diversity is an essential feature of environment. But a few factors have led environmentalists into a dilemma where they are bound to allow a variety of species to grow and flourish together even at the cost of vulnerability of a few other species to preserve overall biodiversity. The economic benefits of biodiversity are well discussed in the book at local, national and international levels.

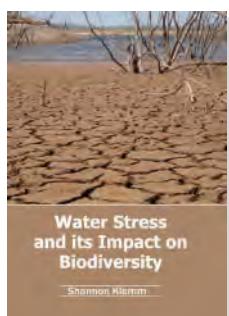
Environmental Sciences



Roger Creed	ISBN 978-1-63239-596-2	\$140.00 US	2015	Book Size 6"x9"	322pp. Colored	Ecology Hardback
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Theoretical and Scientific Researches in Marine Ecosystems

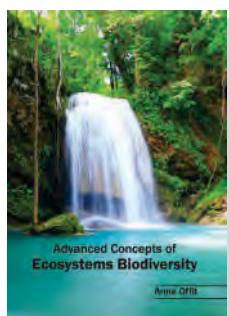
This is a research-focused book which presents theoretical and scientific researches in the field of marine ecosystems. The study of marine ecosystems is a vast subject of discussion, which includes various processes, groups of organisms and geographical peculiarities. The objective of this book is to present various significant topics which help in better understanding of the marine ecosystems, what they are, how they work and how we can model them in order to predict their behavior under changing conditions. The various topics covered in this book have been thoroughly reviewed and approved for publication. This book discusses a wide range of subjects ranging from threats to ultra-oligotrophic marine ecosystems and modelling the pelagic ecosystem dynamics in Northwest Mediterranean to the marine ecosystem of the Sub-Antarctic, Prince Edward Islands and meiofauna as a means for marine ecosystem biomonitoring. Other important topics covered in this book include chemical interactions in marine ecosystems, hydrocarbon contamination and the swimming nature of the estuarine copepod *Eurytemora affinis*, interactions between marine ecosystems and tourism on the Adriatic and Mediterranean. Also, several case studies on important issues like coral reef protection and seabed mapping have been covered in the book.



Shannon Klemm	ISBN 978-1-63239-619-8	\$90.00 US	2015	Book Size 6"x9"	187pp. Colored	Ecology Hardback
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Water Stress and its Impact on Biodiversity

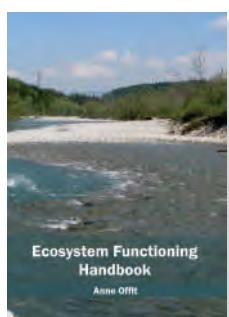
This book discusses the topic of water stress and provides information regarding its impact on biodiversity. Ever since the Earth was formed, the amount of water present on our planet has remained consistent for about 4 billion years. From there on, it has cycled through evaporation, condensation, precipitation and surface runoff multiple times till date. Water scarcity as an abiotic factor ranging from moderate to severe stress levels, along with loss of moisture in the soil, is an extremely difficult situation for most organisms to comply with, especially terrestrial plants and their food-chain dependents. Due to the possibilities of increasing temporary or even permanent, drought conditions in the future, there is immense emphasis on enhancing plant resistance against drought and enhancing yield performance in water-limited environments through genotype selection in important crops. Comprehension regarding the reactions of plants and organisms to water stress conditions has also been encompassed in this all-inclusive book along with discussions on survival strategies adopted under varied moisture levels.



Anne Offit	ISBN 978-1-63239-017-2	\$90.00 US	2015	Book Size 6"x9"	206pp. Colored	Ecosystems Hardback
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Advanced Concepts of Ecosystems Biodiversity

This book points out that the better we can understand how ecosystems are formed and evolved, the better we can understand the history and future of our ecosystems; which is a vibrant and collaborative cluster made up of plants, animals and micro-organism communities. Humankind is an essential part of each ecosystem and enjoys all its advantages. Driven by the growing necessity to conserve ecosystem productivity, several ecological researches have been conducted in the last few decades, highlighting the current condition of our planet and focusing on potential perspectives. This book contains extensive overviews and innovative studies focused on preservation studies, hazards and conservation management, and also considers agro-ecosystems biodiversity and its effects on the quality of human lifestyle.

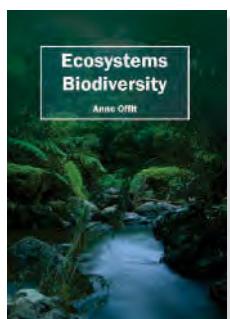


Anne Offit	ISBN 978-1-63239-163-6	\$140.00 US	2015	Book Size 6"x9"	344pp. Colored	Ecosystems Hardback
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Ecosystem Functioning Handbook

Ecosystems are dynamic. The ecosystem presents a broad diversity worldwide and utilizes diverse functionalities according to specific ecologic regions. Due to changeability and climatic diversity, these ecosystems go through significant adjustments, which are enhanced by the domestic uses it was subjected to. Undeniably, the ecosystem helps humanity in various forms by its structure and composition. The conservation of these ecosystemic services needs a better understanding of their nature. The focus of the research is to identify the ecosystems and to define their acceptable usage point. Characterization of ecosystem is not just important for the local population using it, but also for the preservation of biodiversity. The management and conservation of ecosystems need inventive and diverse techniques. This book intends to bring out a universal view on biogeochemical cycles, ecological imprints and theories acceptable in many circumstances.

Environmental Sciences

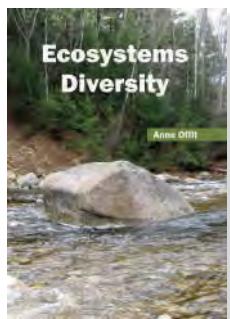


Ecosystems

Anne Offit	ISBN 978-1-63239-164-3	\$120.00 US	2015	Book Size 6"x9"	282pp. Colored	Hardback
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Ecosystems Biodiversity

Ecosystems are vibrant and collaborative clusters made up of plants, animals and micro-organism communities. Humankind is an essential part of each ecosystem and enjoys all its advantages. Driven by the growing necessity to conserve ecosystem productivity, several ecological researches have been conducted in the last few decades, highlighting the current condition of our planet and focusing on potential perspectives. This book contains extensive overviews and innovative studies focused on Environmental Evaluation and Monitoring of Agro-Ecosystems Biodiversity, richness and distribution, in order to recognize the best management strategies to face and resolve conservation issues.

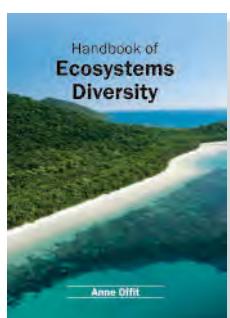


Ecosystems

Anne Offit	ISBN 978-1-63239-165-0	\$110.00 US	2015	Book Size 6"x9"	238pp. Colored	Hardback
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Ecosystems Diversity

Ecosystems offer huge diversity around the globe and facilitate several advantages in different regions. In this new backdrop of frivolity and climatic variations, these ecosystems suffer notable modifications enlarged by domestic uses of which it was subjected to. Certainly ecosystems provide diverse services to mankind through their composition and structure but the bearable levels are unidentified. The conservation of these eco-systemic services needs a fair perception of their complexity. The function of research is not only to describe these ecosystems but also to undoubtedly describe the allowable usage levels. Their description proves to be significant not only for the local citizens that use them but also for the protection of biodiversity. So the measurement, management and protection of ecosystems need unique and varied techniques. For all these reasons, the purpose of this book is to present a universal view on functioning of ecosystems, modeling, sampling techniques, invading species, the reaction of organisms to modifications, the carbon dynamics, the mathematical models and theories that can be executed in diverse circumstances.

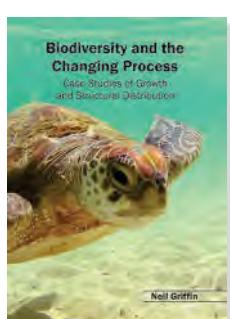


Ecosystems

Anne Offit	ISBN 978-1-63239-389-0	\$120.00 US	2015	Book Size 6"x9"	270pp. Colored	Hardback
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Handbook of Ecosystems Diversity

Ecosystems offer huge diversity around the globe and facilitate several advantages with different regions. Certainly ecosystems provide diverse services to humankind through their composition and structure but the bearable levels are unidentified. In this new backdrop of frivolity and climatic variations, these ecosystems suffer notable modifications enlarged by domestic uses of which it was subjected to. The conservation of these eco-systemic services needs a fair perception of their complexity. The function of research is not only to describe these ecosystems but also to undoubtedly describe the allowable usage levels. Their description proves to be significant not only for the local citizens that use them but also for the protection of biodiversity. So the measurement, management and protection of ecosystems need unique and varied techniques. For all these reasons, the purpose of this book is to introduce a universal view on functioning of ecosystems, a species ecological modeling - homotopy analysis and extreme climatic events as drivers of ecosystem change.



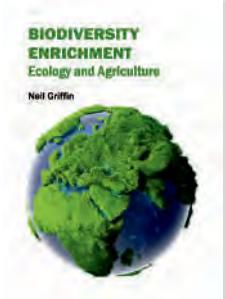
Biodiversity

Neil Griffin	ISBN 978-1-63239-091-2	\$150.00 US	2015	Book Size 6"x9"	379pp. Colored	Hardback
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Biodiversity and the Changing Process – Case Studies of Growth and Structural Distribution

Biodiversity is a diverse and dynamic area of study. Motivated by the growing requirement to classify the biological diversity frame of extensive, endemic and endangered species, as well as by the increasing chances to describe new species, the research of the evaluative and spatial dynamics is in constant execution. Logical overviews, biographic and phylogenetic backgrounds, species composition and allocation in controlled areas are focal subjects of the various appealing chapters collected in this book. The researches presented within the book have been chosen to offer the reader an insight into the current situation of our ecosystem.

Environmental Sciences



Neil Griffin

ISBN
978-1-63239-092-9

\$110.00 US

2015

Book Size
6"x9"

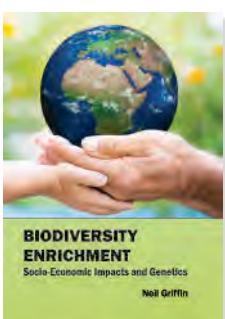
245pp.
Colored

Biodiversity

Hardback

Biodiversity Enrichment: Ecology and Agriculture

A research approach on biodiversity has been undertaken in this book. The biodiversity of plants, animals, fungi and microbes has been discussed in detail, along with biodiversity and its impact on mental health. The complexity of the association has been approached from various angles, taking into account the interventions at various stages. A scientific approach has been adopted in this book which exhibits the inter-connectivity of all the three levels, emphasizing the need for conservation and protection of the systems if human existence is to continually benefit from it. This book is a valuable reference for researchers and students interested in biodiversity.



Neil Griffin

ISBN
978-1-63239-093-6

\$120.00 US

2015

Book Size
6"x9"

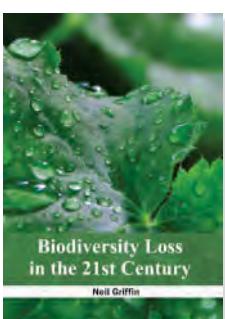
288pp.
Colored

Biodiversity

Hardback

Biodiversity Enrichment: Socio-Economic Impacts and Genetics

The book broadly covers agricultural aspects, socio-economic impacts and genetics. The complexity of the association has been approached from various angles, taking into account the interventions at various stages. A scientific approach has been adopted in this book which exhibits the inter-connectivity of all the three levels, emphasizing the need for conservation and protection of the systems if human existence is to continually benefit from it. This book is a valuable reference for researchers and students interested in biodiversity.



Neil Griffin

ISBN
978-1-63239-094-3

\$140.00 US

2015

Book Size
6"x9"

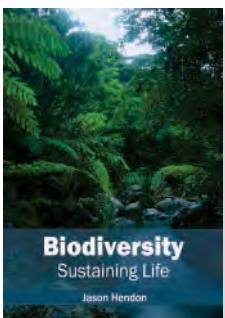
330pp.
Colored

Biodiversity

Hardback

Biodiversity Loss in the 21st Century

This book provides an overview of current knowledge and discusses some of the unanswered questions at the forefront of research in biodiversity. Every ecosystem is an intricate organization of cautiously mixed life forms; a dynamic and primarily sensible system. Hence, their progressive decline may speed up climate change and vice versa, influencing flora and fauna composition and distribution, resulting in the loss of biodiversity. The effects of climate change are the primary issues covered in this book. It presents varied case studies focused on biodiversity evaluations and necessities in several ecosystems, analyzing the current life situation of many life forms and covering various biogeographic zones of the world.



Jason Hendon

ISBN
978-1-63239-095-0

\$150.00 US

2015

Book Size
8.5"x11"

226pp.
Colored

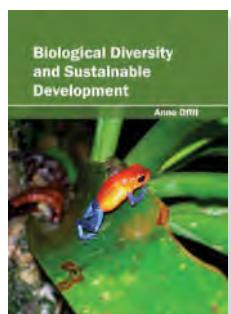
Biodiversity

Hardback

Biodiversity: Sustaining Life

The understanding of the concept of biodiversity and its impact on various life forms is a complex study. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concept of biodiversity as easy and informative as possible for the reader.

Environmental Sciences



Author	ISBN	Price	Year	Book Size	Pages	Type
Anne Offit	978-1-63239-098-1	\$90.00 US	2015	6"x9"	170pp. Colored	Hardback

Biological Diversity and Sustainable Development

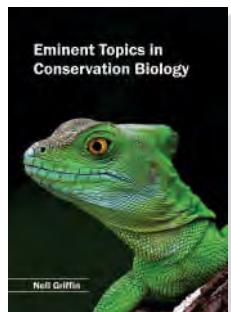
Biological diversity and sustainable development is an upcoming area of study which is undergoing rapid development in diverse sectors. This book includes interesting overviews and innovative case studies primarily concentrated on the socio-economic effects of the accurate management of the biodiversity of ecosystems. It also discusses the useful incorporation of human activities and environmental responses. Environmental, medical and historical features of sustainable development are also elucidated. This book consists of researches written by prominent experts, offering the reader a clear and broad view of the current situation of our planet.



Author	ISBN	Price	Year	Book Size	Pages	Type
Jason Hendon	978-1-63239-143-8	\$150.00 US	2015	8.5"x11"	217pp. Colored	Hardback

Current Researches in Biodiversity

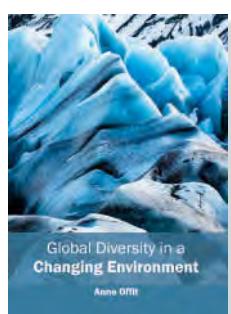
The world is a fascinating place, brimming with life. There are creatures of all shapes, sizes, food habits, breeding patterns, colors and appearances. For someone with an interest and an eye for details, the world is a brilliantly diverse place. This biodiversity is the central concern of this book. It explores the different strata of biodiversity and the advances happening in its research across the globe. The data in this book has been contributed by international experts.



Author	ISBN	Price	Year	Book Size	Pages	Type
Neil Griffin	978-1-63239-169-8	\$80.00 US	2015	6"x9"	122pp. Colored	Hardback

Eminent Topics in Conservation Biology

Conservation biology is an essential element for sustaining the biodiversity of this planet. Conservation biology is also known as "crisis discipline." In today's scenario, the world is undergoing some rapid transformation, and science instructs us about research, management practices, technologies and policies that can help protect the environment's naturally-occurring biological diversity. Certain chapters of this book present well-researched analysis dealing with guarded regions (Middle East), safeguarding biochemical and genetic diversity of carob tree, wild pear, shaping the health status of Amazon manatee, disturbing sex-ratios to benefit the natural world, and minimizing the gap between region and protection. This book approaches various threats to biological diversity from different point of views. The author offers room for reflection on the meaning and value of the word 'natural' on a planet now, tremendously, dominated by people.

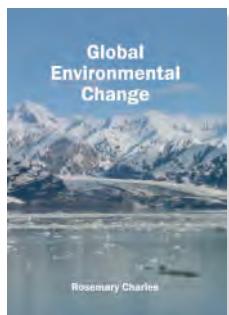


Author	ISBN	Price	Year	Book Size	Pages	Type
Anne Offit	978-1-63239-359-3	\$160.00 US	2015	6"x9"	407pp. Colored	Hardback

Global Diversity in a Changing Environment

The global diversity in a changing environment has been elucidated in this insightful book. The dynamic interactions between biotic, abiotic and also the anthropic factors substantially influence global climate changes and therefore biology and different life forms on Earth. These vital natural procedures influence all ecosystems, causing changes in biodiversity. Methodical studies, biogeographic allocation breakdown and evaluations of diversity richness are central topics of this book written by experts from around the world, some even taking into consideration economic effects and future perspectives on the management and conservation plans.

Environmental Sciences

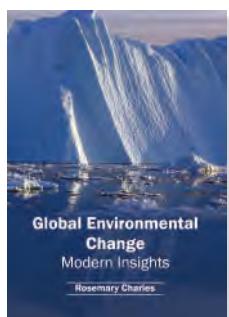


Biodiversity

Rosemary Charles	ISBN 978-1-63239-360-9	\$110.00 US	2015	Book Size 6"x9"	258pp. Colored	Hardback
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Global Environmental Change

Environmental transformation is increasingly considered a crucial subject for scientists across various disciplines, as well as policy makers around the globe. Mounting evidence reveals that environments around the globe are undergoing some drastic changes. Increasing population, urbanization and development of the global economy are putting more pressure on ecosystems. To comprehend the roots and consequences of environmental modification, the writers of this book employ spatial and non-spatial data, different theoretical visions, and cutting edge research tools such as GIS, remote sensing technology, etc. Global perspectives on environmental modification bring together research from around the world to investigate the complexities of modern and historical environmental change. Features of environmental modification explored in this book include: climate change, historical environmental change and biological responses to environmental change.

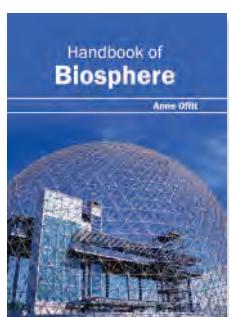


Biodiversity

Rosemary Charles	ISBN 978-1-63239-361-6	\$110.00 US	2015	Book Size 6"x9"	242pp. Colored	Hardback
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Global Environmental Change: Modern Insights

Mounting evidence reveals that environments around the globe are undergoing some drastic changes. Environmental transformation is increasingly considered a crucial subject for scientists across various disciplines, as well as policy makers around the globe. Increasing population, urbanization and development of the global economy are putting more pressure on ecosystems. To comprehend the roots and consequences of environmental modification, the writers of this book employ spatial and non-spatial data, different theoretical visions, and cutting edge research tools such as GIS, remote sensing technology, etc. Global perspectives on environmental modification bring together research from around the world to investigate the complexities of modern and historical environmental change. Several dimensions of environmental modification explored in this book include: land use and land cover change strategy, indicators of change and policy for ecological change.

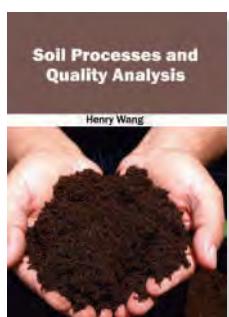


Biodiversity

Anne Offit	ISBN 978-1-63239-374-6	\$140.00 US	2015	Book Size 6"x9"	314pp. Colored	Hardback
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Handbook of Biosphere

Biosphere is a constantly researched sphere of study. This book presents researches about the evaluation of origins, development, ecosystems and resource utilization patterns of the biosphere. Many express the problems and challenges that humanity undergoes in the process to experiment and begin a new partnership with the ecosystem in places designated as biosphere reserves by UNESCO, under its Man and the Biosphere (MAB) programme. With the beginning of the 21st century, humanity is much more alert and conscious of the unfavorable consequences that it has brought upon global climate change and biodiversity loss. Humanity is at a serious moment of comprehension and action to work out a brand new interaction with the biosphere that sustains our own welfare and that of our ecosystem companions. This book is a humble effort to enhance and enable that moment and its march ahead in human history.



Soil Science

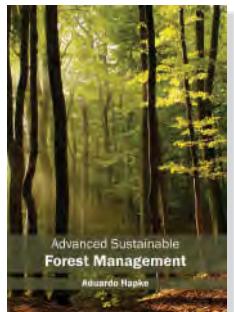
Henry Wang	ISBN 978-1-63239-565-8	\$160.00 US	2015	Book Size 6"x9"	443pp. Colored	Hardback
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Soil Processes and Quality Analysis

This book discusses the various soil processes and also emphasizes on the topic of quality analysis. Soil quality and properties are constantly affected by human activities and natural processes. A number of researches are being conducted to assess soil quality in various environmental scenarios because of the growing need for soil protection. The estimation of soil quality determines the capability of soil to carry out its functions in current scenarios and also how it can be preserved for future land use. There are certain indicators currently being employed to estimate soil quality such as biological, chemical and physical properties along with various soil processes. Current trends and soil processes employed in assessment of soil quality provide wide depiction of current researches in soil quality assessment comprising of general studies on soil processes, evaluation of significant indicators of soil quality such as soil organic matter dynamic and soil-plant interaction along with elaboration on various methodologies for maintaining soil health.

Environmental Sciences

Forestry



Aduardo Hapke

ISBN
978-1-63239-030-1

\$120.00 US

2015

Book Size
6"x9"

250pp.
Colored

Hardback

Advanced Sustainable Forest Management

This book covers advances made in Sustainable Forest Management (SFM). Although it is an old concept, its popularity has grown in the last few decades due to the public concern regarding the significant decline in forest resources. The implementation of SFM is usually achieved with the help of criteria and indicators (C&I). A number of countries have developed their own sets of C&Is. The book covers some of the current researches carried out to test the recent indicators, to look for new indicators and to establish new markers. It contains original research studies on biodiversity, carbon & forest resources, forest health and productive & protective functions. These studies highlight the recent researches done to provide forest managers with effective tools for choosing between distinct management strategies of improving indicators of SFM.



Malcolm Fisher

ISBN
978-1-63239-042-4

\$150.00 US

2015

Book Size
8.5"x11"

211pp.
Colored

Forestry

Advances in Forestry Research: Volume I

This book on forestry sciences compiles researches, which include studies of different biospheres and various forest reserves from across the globe. Some of the most innovative and current topics have been discussed by several authors; thus, the content of this book is extremely informative. It also discusses the impact of climatic changes on forest by including related studies. This book will help new researchers by foregrounding their knowledge in this branch.



Malcolm Fisher

ISBN
978-1-63239-043-1

\$150.00 US

2015

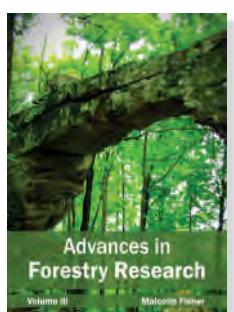
Book Size
8.5"x11"

215pp.
Colored

Forestry

Advances in Forestry Research: Volume II

This book on forestry sciences compiles researches, which include studies of different biospheres and various forest reserves from across the globe. Some of the most innovative and current topics have been discussed by several authors; thus, the content of this book is extremely informative. It also discusses the impact of climatic changes on forest by including related studies. This book will help new researchers by foregrounding their knowledge in this branch.



Malcolm Fisher

ISBN
978-1-63239-044-8

\$150.00 US

2015

Book Size
8.5"x11"

220pp.
Colored

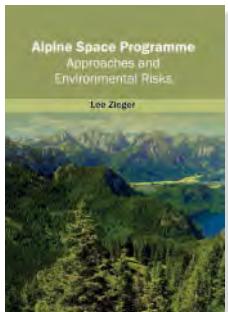
Forestry

Advances in Forestry Research: Volume III

This book on forestry sciences compiles researches, which include studies of different biospheres and various forest reserves from across the globe. Some of the most innovative and current topics have been discussed by several authors; thus, the content of this book is extremely informative. It also discusses the impact of climatic changes on forest by including related studies. This book will help new researchers by foregrounding their knowledge in this branch.

Environmental Sciences

Forestry



Lee Zieger

ISBN
978-1-63239-066-0

\$150.00 US

2015

Book Size
6"x9"

392pp.
Colored

Hardback

Alpine Space Programme: Approaches and Environmental Risks

This book presents an overview of the approaches and challenges associated with climate change risks in the Alpine region. Climate variations indicate that current forest resources will face drastically different temperature and precipitation conditions in the future. Developing prospective strategies for forest management in spite of uncertain and highly variable forecasts of future site conditions is a great challenge. Transnational case studies dealing with different manifestations of climate change effects have been analyzed in this book. It intends to encourage discussions on management strategies to adapt forests in the Alps to climate variation risks. The results have been derived from the INTERREG project "Management Strategies to Adapt Alpine Space Forests to Climate Change Risks" that was enforced within the framework of the European Territorial Cooperation "Alpine Space Programme 2007-2013".

Forestry



Lee Zieger

ISBN
978-1-63239-136-0

\$120.00 US

2015

Book Size
6"x9"

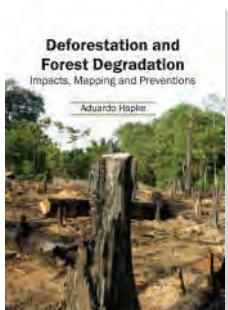
268pp.
Colored

Hardback

Current Developments in Forestry Research

This book highlights current developments in forestry research by providing valuable information related to latest research in this domain. Contributions from experts across the globe have been made in this extensive book. It elucidates the positive and negative practices in forestry. Forest is an intricate system of habitat for humans, insects, animals and micro-organisms alike. The activities of these organisms can affect the forest both positively and negatively. This complicated relationship has also been elucidated in this book. Advancement in tree plantations has been humankind's reaction to forest degradation and deforestation caused by animals, natural disasters and humans themselves. Plantations of eucalyptus, beech, spruce and other species have been comprehensively explained in this book. The aim of this book is to serve readers interested in forestry including forest scientists, researchers and associated professionals.

Forestry



Aduardo Hapke

ISBN
978-1-63239-146-9

\$150.00 US

2015

Book Size
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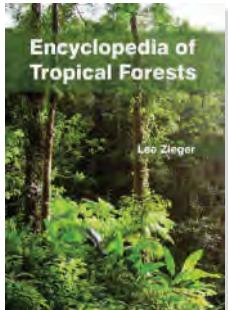
384pp.
Colored

Hardback

Deforestation and Forest Degradation: Impacts, Mapping and Preventions

The impacts, mapping and preventions of deforestation and forest degradation have been elucidated in this profound book. Forest degradation and deforestation constitute a considerable fraction of human-induced emission of greenhouse gases to the atmosphere across the globe every year, which is a primary cause of the loss of biodiversity and devastation of homes of millions of people. Regardless of local/regional causes, its impact is global. The book also includes analysis of the effects and causes of deforestation and the actions required for avoiding it along with a fundamental description about deforestation dynamics across the planet. Emphasis has been laid on distinct remote-sensing and mapping methodologies that could be employed as a tool for promoting forest conservation and preventing deforestation.

Forestry



Lee Zieger

ISBN
978-1-63239-306-7

\$150.00 US

2015

Book Size
6"x9"

403pp.
Colored

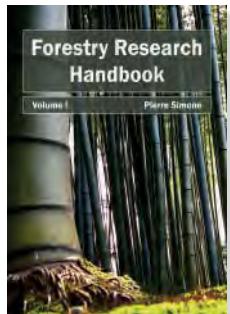
Hardback

Encyclopedia of Tropical Forests

This book presents advanced in-depth information regarding tropical forests. The surprisingly rich and abundant biodiversity of tropical forests is declining at a fast rate. This has led to serious changes in important biogeochemical cycles of nitrogen, carbon, phosphorus, etc. and has resulted in an alteration in the global climate and pure natural ecosystems. This book broadly defines Tropical Forests in light of the following major aspects: tropical forest synthesis, synergy and structure; effect of anthropogenic pressure; tropical forest protection and process; tropical forest fragmentation; remote sensing and geographic information system. Advanced synthesis, descriptive recent reviews, latest experiences/experiments contributed by veteran scientists from across the globe, and several original data-rich researches have been included in this book. The aim of this book is to help in educating, generating knowledge, and understanding the role of "Tropical Forests" for the very survival of humans, variety of biota, and climate change across the planet. This book will serve as a valuable source of reference for ecologists, students, forest managers, scientists, and population and conservation biologists.

Environmental Sciences

Forestry



Pierre Simone

ISBN
978-1-63239-344-9

\$150.00 US

2015

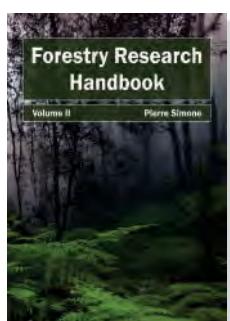
Book Size
8.5"x11"

199pp.
Colored

Hardback

Forestry Research Handbook: Volume I

Forestry is an emerging discipline which has garnered a lot of attention, especially in the wake of climatic changes and global warming. This book is an attempt to incorporate all the recent trends in this area of research. The case studies in this book will provide insights to the reader about all the research models and developmental areas in forestry. It aims to serve as a resource guide for students and experts alike.



Pierre Simone

ISBN
978-1-63239-345-6

\$150.00 US

2015

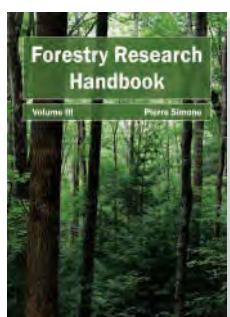
Book Size
8.5"x11"

206pp.
Colored

Forestry

Forestry Research Handbook: Volume II

Forestry is an emerging discipline which has garnered a lot of attention, especially in the wake of climatic changes and global warming. This book is an attempt to incorporate all the recent trends in this area of research. The case studies in this book will provide insights to the reader about all the research models and developmental areas in forestry. It aims to serve as a resource guide for students and experts alike.



Pierre Simone

ISBN
978-1-63239-346-3

\$150.00 US

2015

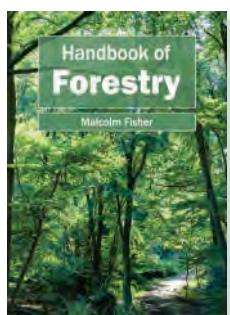
Book Size
8.5"x11"

193pp.
Colored

Forestry

Forestry Research Handbook: Volume III

Forestry is an emerging discipline which has garnered a lot of attention, especially in the wake of climatic changes and global warming. This book is an attempt to incorporate all the recent trends in this area of research. The case studies in this book will provide insights to the reader about all the research models and developmental areas in forestry. It aims to serve as a resource guide for students and experts alike.



Malcolm Fisher

ISBN
978-1-63239-397-5

\$150.00 US

2015

Book Size
8.5"x11"

199pp.
Colored

Forestry

Handbook of Forestry

The book mainly deals in the practice of modern forestry as it engages in a broad range of concerns regarding environmental preservation, including practices that help in water management, preservation of ecosystem and wildlife, erosion control and biodiversity management. It emphasizes the advancements in forest management and presents the recent researches and emerging concepts of this discipline in a comprehensive manner for its readers.

Environmental Sciences

Forestry



Aduardo Hapke

ISBN
978-1-63239-582-5

\$110.00 US

2015

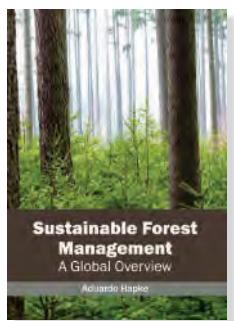
Book Size
6"x9"

228pp.
Colored

Hardback

Sustainable Forest Management

Sustainable forest management (SFM) is an old concept. But its popularity has grown in the last few decades due to the public concern regarding the significant decline in forest resources. The implementation of SFM is usually achieved with the help of criteria and indicators (C&I). A number of countries have developed their own sets of C&Is. The book covers some of the current researches carried out to test the recent indicators, to look for new indicators and to establish new tools. It contains original research studies on socio-economic functions and decision making tools. These studies exhibit the recent researches done to provide forest managers with effective tools for choosing between distinct management strategies of improving indicators of SFM.



Aduardo Hapke

ISBN
978-1-63239-583-2

\$140.00 US

2015

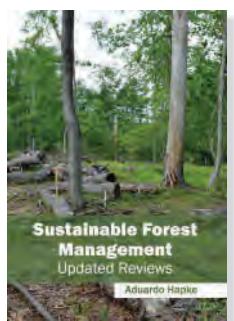
Book Size
6"x9"

314pp.
Colored

Hardback

Sustainable Forest Management: A Global Overview

A global overview of sustainable forest management has been covered in this book along with state-of-the-art information regarding the topic. It is aimed at presenting a global outlook on sustainable forest management. It emphasizes on the need to divert from purely protective management of forests to innovative techniques for multidimensional utilization and management of forest resources. The book thoroughly deals with the various aspects of forest management and forest utilization. It provides descriptive information about the lesser known aspects of knowledge regarding evolving perspectives on sustainable forest management. It will be an interesting and useful resource to managers, experts and newcomers in the subject of forestry and natural resources management.



Aduardo Hapke

ISBN
978-1-63239-584-9

\$120.00 US

2015

Book Size
6"x9"

270pp.
Colored

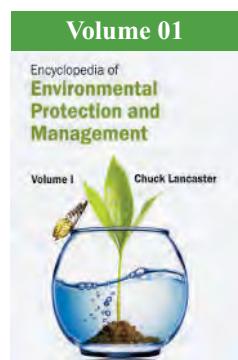
Hardback

Sustainable Forest Management: Updated Reviews

This research-focused book discusses the updated reviews regarding the topic of sustainable forest management. Even though the idea of forest sustainability is an age-old concept, the understanding of sustainable forest management (SFM) as a tool which balances various socio-economic and ecological concerns is relatively new. A significant change in viewpoint commenced during the 1990s as a consequence of an enhanced awareness of the deterioration of the environment, specifically regarding the alarming loss of forest resources. This book comprises of original case studies from 12 distinct countries across 4 continents (Europe, Asia, Africa and America). These case studies reflect a diversity of experiences from developed and developing countries, and should clarify the present status of SFM across the world and the problems related to its implementation.

Environmental Sciences

Environmental Management



Volume 01

Encyclopedia of
Environmental
Protection and
Management

Volume I Chuck Lancaster

Chuck Lancaster

ISBN
978-1-63239-243-5

\$150.00 US

2015

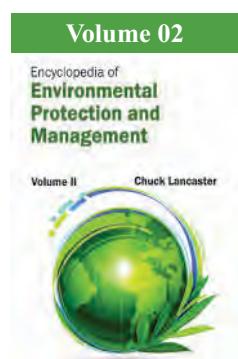
Book Size
8.5"x11"

216pp.
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Hardback

Encyclopedia of Environmental Protection and Management

Environmental protection has gained pace over the last few years due to the considerable degradation of various facets of the environment. The book covers in detail innovative concepts and case studies revolving around environmental protection. This book is a vital tool for all researching or studying this field as it gives incredible insights into contemporary trends and recent topics.



Volume 02

Encyclopedia of
Environmental
Protection and
Management

Volume II Chuck Lancaster

Chuck Lancaster

ISBN
978-1-63239-244-2

\$150.00 US

2015

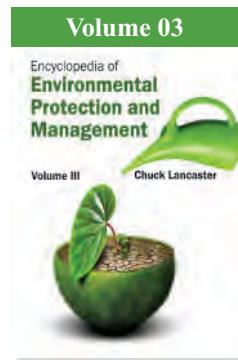
Book Size
8.5"x11"

225pp.
Colored

Hardback

Encyclopedia of Environmental Protection and Management

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Volume 03

Encyclopedia of
Environmental
Protection and
Management

Volume III Chuck Lancaster

Chuck Lancaster

ISBN
978-1-63239-245-9

\$150.00 US

2015

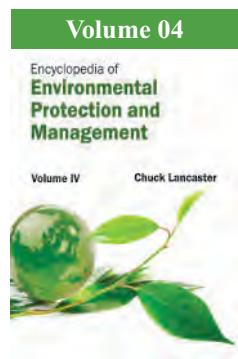
Book Size
8.5"x11"

218pp.
Colored

Hardback

Encyclopedia of Environmental Protection and Management

Environmental protection has gained pace over the last few years due to the considerable degradation of various facets of the environment. The book covers in detail innovative concepts and case studies revolving around environmental protection. This book is a vital tool for all researching or studying this field as it gives incredible insights into contemporary trends and recent topics.



Volume 04

Encyclopedia of
Environmental
Protection and
Management

Volume IV Chuck Lancaster

Chuck Lancaster

ISBN
978-1-63239-246-6

\$150.00 US

2015

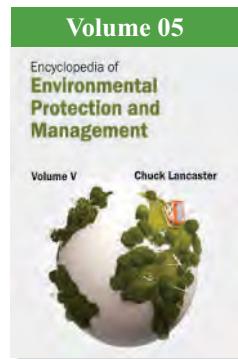
Book Size
8.5"x11"

216pp.
Colored

Hardback

Encyclopedia of Environmental Protection and Management

Environmental protection has gained pace over the last few years due to the considerable degradation of various facets of the environment. The book covers in detail innovative concepts and case studies revolving around environmental protection. This book is a vital tool for all researching or studying this field as it gives incredible insights into contemporary trends and recent topics.



Volume 05

Encyclopedia of
Environmental
Protection and
Management

Volume V Chuck Lancaster

Chuck Lancaster

ISBN
978-1-63239-247-3

\$150.00 US

2015

Book Size
8.5"x11"

214pp.
Colored

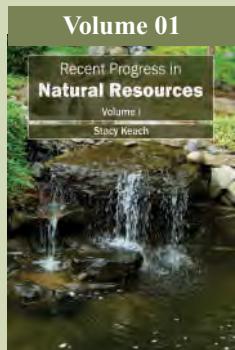
Hardback

Encyclopedia of Environmental Protection and Management

Environmental protection has gained pace over the last few years due to the considerable degradation of various facets of the environment. The book covers in detail innovative concepts and case studies revolving around environmental protection. This book is a vital tool for all researching or studying this field as it gives incredible insights into contemporary trends and recent topics.

Environmental Sciences

Environmental Management

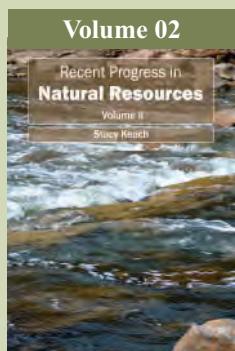


Volume 01

Stacy Keach | ISBN 978-1-63239-542-9 | \$150.00 US | 2015 | Book Size 8.5"x11" | 216pp. Colored | Hardback

Recent Progress in Natural Resources

Natural resources are the building blocks of human life. Conservation of natural resources requires a cumulative effort at the individual, societal and governmental level. The researches included in this book, present studies from all over the world, which operate at these three levels. The book also brings forth advanced knowledge and innovative concepts in this field.

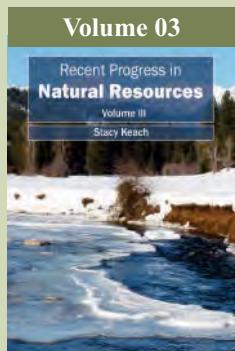


Volume 02

Stacy Keach | ISBN 978-1-63239-543-6 | \$150.00 US | 2015 | Book Size 8.5"x11" | 221pp. Colored | Hardback

Recent Progress in Natural Resources

Natural resources are the building blocks of human life. Conservation of natural resources requires a cumulative effort at the individual, societal and governmental level. The researches included in this book, present studies from all over the world, which operate at these three levels. The book also brings forth advanced knowledge and innovative concepts in this field.

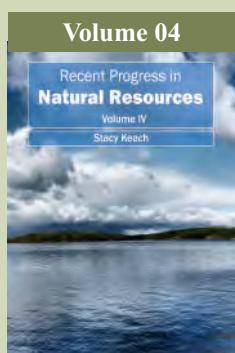


Volume 03

Stacy Keach | ISBN 978-1-63239-544-3 | \$150.00 US | 2015 | Book Size 8.5"x11" | 219pp. Colored | Hardback

Recent Progress in Natural Resources

Natural resources are the building blocks of human life. Conservation of natural resources requires a cumulative effort at the individual, societal and governmental level. The researches included in this book, present studies from all over the world, which operate at these three levels. The book also brings forth advanced knowledge and innovative concepts in this field.

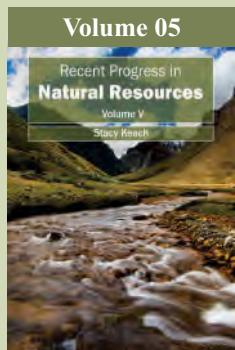


Volume 04

Stacy Keach | ISBN 978-1-63239-545-0 | \$150.00 US | 2015 | Book Size 8.5"x11" | 217pp. Colored | Hardback

Recent Progress in Natural Resources

Natural resources are the building blocks of human life. Conservation of natural resources requires a cumulative effort at the individual, societal and governmental level. The researches included in this book, present studies from all over the world, which operate at these three levels. The book also brings forth advanced knowledge and innovative concepts in this field.



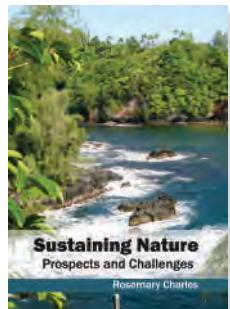
Volume 05

Stacy Keach | ISBN 978-1-63239-546-7 | \$150.00 US | 2015 | Book Size 8.5"x11" | 225pp. Colored | Hardback

Recent Progress in Natural Resources

Natural resources are the building blocks of human life. Conservation of natural resources requires a cumulative effort at the individual, societal and governmental level. The researches included in this book, present studies from all over the world, which operate at these three levels. The book also brings forth advanced knowledge and innovative concepts in this field.

Environmental Sciences

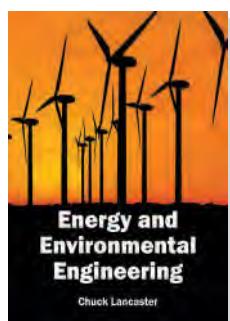


Environmental Management

Rosemary Charles	ISBN 978-1-63239-589-4	\$120.00 US	2015	Book Size 6"x9"	282pp. Colored	Hardback
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Sustaining Nature: Prospects and Challenges

This book demonstrates the range of information and viewpoints that critically acknowledges the gaps and weaknesses in local, regional and hemispheric ecologies, as well as helps in understanding the limitations and barriers to accomplishing critical nature conservation projects. The book, through original research, enunciates the linkages between the geographical foci of conservation projects and the biological substances that we theorize as "nature". The reader will come across perspectives of diminishing spatial scales, from smaller to larger landscapes or larger proportions of the Earth, and learns that the length of factors that assist and limit conservation through the application of scholarship and academic concepts develop with the space in question. The book mirrors disciplinary multiplicity and a co-mingling of science and social science to aid in understanding of the patterns of, pressures on, and prospects for conservation.

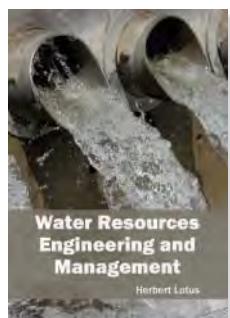


Environmental Engineering

Chuck Lancaster	ISBN 978-1-63239-309-8	\$150.00 US	2015	Book Size 8.5"x11"	219pp. Colored	Hardback
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Energy and Environmental Engineering

This book attempts to compile the researches on computational water, energy and environmental engineering under one umbrella. The advances in these relatively new fields are delved into and salient points are discussed. Students and interested researchers in this field as well as those who are a part of this new arena will find this book helpful.



Environmental Engineering

Herbert Lotus	ISBN 978-1-63239-618-1	\$140.00 US	2015	Book Size 6"x9"	322pp. Colored	Hardback
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Water Resources Engineering and Management

The engineering as well as management of water resources are described in this book. Hydrology is a scientific field which deals with the processes governing the exhaustion and renewal of water resources of the earth's land areas. The aim of this book is to combine the latest advancements in hydrology and the engineering of water resources. It discusses surface water and groundwater modeling, and covers various topics related to the management of surface water and groundwater resources. Overcoming the impact of climate change on water resources is also presented in the book. Other topics discussed are the interpretation of field knowledge, advancement of models, the usage of computational models based upon analytical and numerical techniques, evaluation of model performance and their usage for predictive purposes. This book will be beneficial for students and professionals dealing with this field.



Pollution

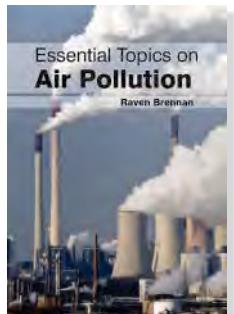
Emma Layer	ISBN 978-1-63239-312-8	\$110.00 US	2015	Book Size 6"x9"	232pp. Colored	Hardback
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Environmental Contamination Handbook

Environmental contamination is a topic of great concern. Environment reduces hazards, while man amplifies them. This is not a supposition, but a gist of the conclusions made from studies of experts from all over the world. The last two centuries have seen an unsystematic expansion and overexploitation of natural resources by man leading to damage and destruction of our own environment. Environmental pollution is the effect of illogical use of resources at the incorrect place and at the incorrect time. Environmental pollution has affected the lifestyle of people almost all over the world, and has decreased the span of life on earth. Today, we are forced to compromise with such environmental circumstances, which nobody had predicted would need to be tackled with for the survival of humanity and other life forms. This book will help the readers find out the underlying crisis and help monitor their solutions through various methods and approaches.

Environmental Sciences

Pollution



Raven Brennan

ISBN
978-1-63239-324-1

\$150.00 US

2015

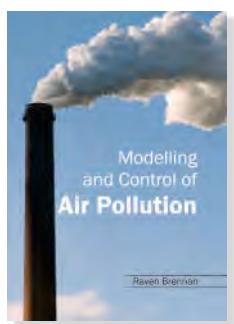
Book Size
6"x9"

402pp.
Colored

Hardback

Essential Topics on Air Pollution

This book provides a comprehensive overview of various facets of air pollution and its effects. There are many complex health issues caused by air pollutants. The ecological health community is being challenged to take some crucial actions to maintain the health of the population. Identifying, observing and evaluating the matter is a favorable way forward, but also raises numerous challenges including what such approaches are, how they can be materialized, and how they are protecting human health. This book gives a summary of key issues in air pollution. Reviews and researches included in this book describe air pollution in a range of situations and explain the available response management regarding this form of pollution.



Raven Brennan

ISBN
978-1-63239-461-3

\$120.00 US

2015

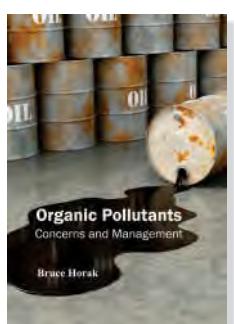
Book Size
6"x9"

265pp.
Colored

Hardback

Modelling and Control of Air Pollution

The crucial problem of air pollution possesses a universal nature. It has been a major environmental problem and an issue of global interest for many years. High concentrations of air pollutants due to several anthropogenic actions influence the quality of the air. This book discusses various topics like the impact of air pollutants on air quality, the debilitating effects of industrial emissions, among others. It presents a variety of monitoring techniques of air pollutants, their predictions and control. It also involves case studies explaining the exposure and health implications of air pollutants on living beings in various countries around the world. The book will be of great help to graduates, professionals and researchers.



Bruce Horak

ISBN
978-1-63239-496-5

\$110.00 US

2015

Book Size
6"x9"

240pp.
Colored

Hardback

Organic Pollutants: Concerns and Management

This book is a significant contribution as it investigates the impact of organic pollutants on human health and environment. Organic pollutants can lead to a number of environmental complications if discharged in air or water bodies. The existence of organic pollutants in the ecosystem, their risk as well as removal methodologies are issues of extreme significance. Various aspects of these pollutants have been considered in this book, with respect to their monitoring in soil and water, evaluation of their risks to humans, soil and plants, and the practical application of various strategies for their treatment and removal from the environment. Therefore, this book serves as an all-inclusive account on organic pollutants.



Bruce Horak

ISBN
978-1-63239-497-2

\$110.00 US

2015

Book Size
6"x9"

240pp.
Colored

Hardback

Organic Pollutants: Updated Reviews

Even a decade after the Stockholm Convention on Persistent Organic Pollutants (POPs) was signed, a large variety of organic chemicals still pose ecological hazards of top most priority. The expansion of information base on organic pollutants (OPs), environmental fate and effects, as well as the cleansing methods, is accompanied by a rise in importance of certain pollution sources, associated with possible generation of new hazards for humans and nature. This book specifies these details, particularly in the light of Organic Pollutants risk assessment and analyzing methods of decontaminating our environment from Organic Pollutants. Providing an analytical and environmental update, this text can specifically be important for engineers and experts.

Environmental Sciences



Pollution

Bruce Horak

ISBN
978-1-63239-547-4

\$120.00 US

2015

Book Size
6"x9"

255pp.
Colored

Hardback

Recent Update on Organic Pollutants

Even a decade after the Stockholm Convention on Persistent Organic Pollutants (POPs) was signed, a large variety of organic chemicals still pose ecological hazards of top most priority. The expansion of information base on organic pollutants (OPs), environmental fate and effects, as well as the cleansing methods, is accompanied by a rise in importance of certain pollution sources, associated with possible generation of new hazards for humans and nature. This book provides an analytical and environmental update, and can be specifically important for engineers and experts.



Air Pollution

Chuck Lancaster

ISBN
978-1-63239-063-9

\$150.00 US

2015

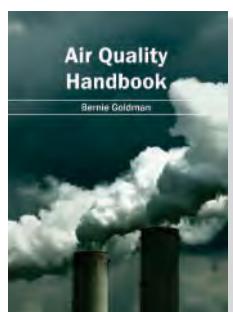
Book Size
8.5"x11"

215pp.
Colored

Hardback

Air Pollution

Air is all around us. We are dependent on it for our existence. In the past few decades, the number of pollutants in the air has increased which has caused a disturbance in the environment. Researches are being conducted across the globe to study the causes of air pollution and minimise it. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study.



Air Pollution

Bernie Goldman

ISBN
978-1-63239-064-6

\$140.00 US

2015

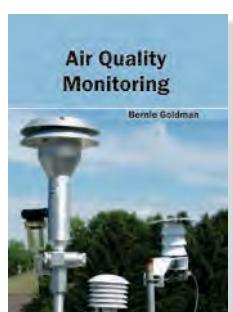
Book Size
6"x9"

338pp.
Colored

Hardback

Air Quality Handbook

This book provides an introduction to various aspects of air quality. It contains several chapters dealing with air pollution; a topic of importance for experts in universities and manufacturing plants dealing with environmental problems. The book consists of an analysis of a variety of geographic regions and an evaluation of diverse actions related to these areas. A detailed analysis gives us the reasons for air pollution and its consequences on society. The main sources of air pollutants and their effects on the environment are also discussed. This book provides techniques and tools for measurement of pollution according to each place. Other significant aspects included in the book are the actions of governmental authorities and academic sectors for solving environmental problems resulting from air pollution.



Air Pollution

Bernie Goldman

ISBN
978-1-63239-065-3

\$110.00 US

2015

Book Size
6"x9"

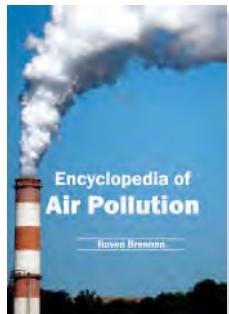
242pp.
Colored

Hardback

Air Quality Monitoring

This book is primarily designed for readers keen to enhance their knowledge in air quality and its various monitoring methods. It presents studies on the interrelation between fungal contamination and its repercussions in large Asian cities, evaluation of ambient air quality in Delhi, and a well-researched study of air pollutants emerging from road traffic. The book also discusses the air quality in low-energy structures, and various aspects of the Sentinel technique to resolve pollution problems. Finally, it also serves as a guide in the evaluation of dry atmospheric deposition at sites in the vicinity of fuel oil fired power, and particles, especially PM 10, in indoor locations.

Environmental Sciences

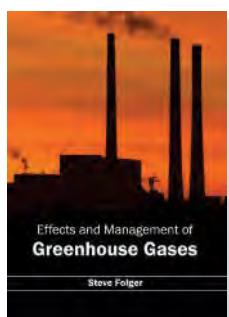


Air Pollution

Raven Brennan | ISBN 978-1-63239-174-2 | \$150.00 US | 2015 | Book Size 6"x9" | 399pp. Colored | Hardback

Encyclopedia of Air Pollution

The crucial problem of air pollution has always been of great concern. It has been a major environmental problem and an issue of global interest for many years. High concentrations of air pollutants due to several anthropogenic actions influence the quality of the air. This book will help you in filling the gaps existing in the fields of air quality monitoring, modelling, exposure, health and control, and will be of great help to graduates, professionals and researchers. It presents a variety of monitoring techniques of air pollutants, their predictions and control. It also includes case studies explaining the exposure and health implications of air pollutants on human beings in various countries around the world.

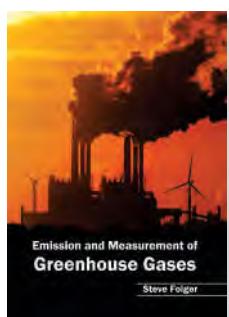


Greenhouse Gas

Steve Folger | ISBN 978-1-63239-166-7 | \$110.00 US | 2015 | Book Size 6"x9" | 244pp. Colored | Hardback

Effects and Management of Greenhouse Gases

The book discusses the effects and management of greenhouse gases. Knowledge of greenhouse gas sources, emissions, measurements and management is crucial for the capture, usage, reduction and storage of greenhouse gases that play a significant role in matters like global warming and climate change. This book presents an extensive investigation of greenhouse effect and management in arctic sea ice decline, trends in precipitation, stream flow observations and greenhouse stakes of globalization. This book includes contributions from prominent experts with extensive experience in this field and will be helpful for interested readers.

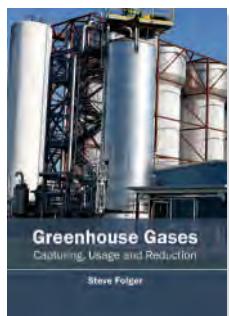


Greenhouse Gas

Steve Folger | ISBN 978-1-63239-170-4 | \$120.00 US | 2015 | Book Size 6"x9" | 284pp. Colored | Hardback

Emission and Measurement of Greenhouse Gases

Knowledge of greenhouse gas sources, emissions, measurements and management is crucial for the capture, usage, reduction and storage of greenhouse gases that play a significant role in matters like global warming and climate change. This book presents an overview of recently developed techniques, methods, and strategies regarding greenhouse gases. It includes an extensive investigation of greenhouse gases that are emitted from hydrocarbon reservoirs, vehicle transportation, agricultural landscapes, farms, etc. It also discusses the latest detection and measurement strategies. This book includes contributions from prominent experts with extensive experience in this field and will be helpful for interested readers.



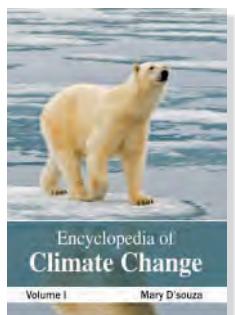
Greenhouse Gas

Steve Folger | ISBN 978-1-63239-366-1 | \$140.00 US | 2015 | Book Size 6"x9" | 350pp. Colored | Hardback

Greenhouse Gases: Capturing, Usage and Reduction

A greenhouse gas is described as a gas that contributes to the greenhouse effect by absorbing infrared radiation. Knowledge of the capture of greenhouse gases, usage, reduction and storage is necessary for solving matters like global warming and climate change that occur due to greenhouse gases. This book presents an overview of recently developed techniques, methods, and strategies regarding the above mentioned topic. It also includes discussions on the reduction of greenhouse gases by policy management, alternative energy sources, mitigation schemes and an extensive review of the geological storage monitoring techniques.

Environmental Sciences

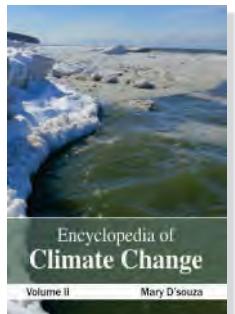


Climate and Weather

Mary D'souza	ISBN 978-1-63239-221-3	\$150.00 US	2015	Book Size 8.5"x11"	202pp. Colored	Hardback
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Encyclopedia of Climate Change: Volume I

This book has been designed keeping in mind the growing concern of global warming impacting the climate patterns. The book is an excellent guide for both academicians and those who wish to pursue a career in this discipline. Contemporary trends and latest work on climate change from all over the world, has been included in this book.

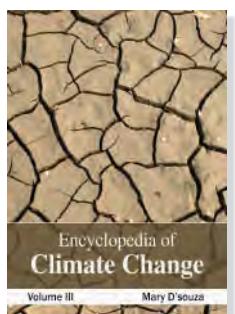


Climate and Weather

Mary D'souza	ISBN 978-1-63239-222-0	\$150.00 US	2015	Book Size 8.5"x11"	200pp. Colored	Hardback
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Encyclopedia of Climate Change: Volume II

This book has been designed keeping in mind the growing concern of global warming impacting the climate patterns. The book is an excellent guide for both academicians and those who wish to pursue a career in this discipline. Contemporary trends and latest work on climate change from all over the world, has been included in this book.

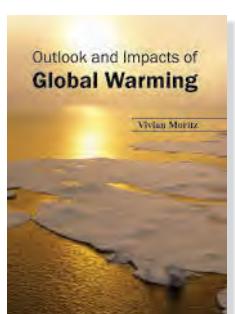


Climate and Weather

Mary D'souza	ISBN 978-1-63239-223-7	\$150.00 US	2015	Book Size 8.5"x11"	218pp. Colored	Hardback
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Encyclopedia of Climate Change: Volume III

This book has been designed keeping in mind the growing concern of global warming impacting the climate patterns. The book is an excellent guide for both academicians and those who wish to pursue a career in this discipline. Contemporary trends and latest work on climate change from all over the world, has been included in this book.



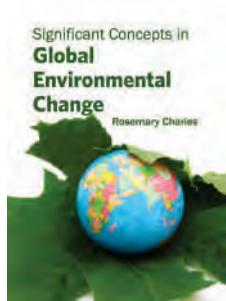
Climate and Weather

Vivian Moritz	ISBN 978-1-63239-499-6	\$150.00 US	2015	Book Size 6"x9"	366pp. Colored	Hardback
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Outlook and Impacts of Global Warming

Global warming is described as a gradual increase in the overall temperature of the earth's atmosphere generally attributed to the greenhouse effect. It has acquired the position of one of the most complex issues being encountered by world leaders. Therefore, it calls for significant concern from numerous modern societies, power and energy engineers, scholars, researchers and stakeholders. The consensus in the past century regarding anthropogenically induced global warming, has recently been questioned by a rising number of climate change panelists. Irrespective of the uncertainty of climate models, humankind needs to continuously struggle towards decreasing the amount of greenhouse gases released into the atmosphere for the conservation of natural resources and living organisms by presenting new advanced methods on alternative fuels and other related technologies. This book thoroughly addresses the fundamentals on the origin of global warming and associated technologies which can be used to decrease human impact on climate change as well as presents innovative strategies which activists and practitioners should adopt. This book is a collective effort of various authors compiled in a chronological and simple manner in order to strike the correct balance between breadth and depth of coverage of several topics.

Environmental Sciences



Rosemary Charles

ISBN
978-1-63239-559-7

\$90.00 US

2015

Book Size
6"x9"

Climate and Weather

166pp.
Colored

Hardback

Significant Concepts in Global Environmental Change

Important information regarding the structures of organisms has emerged recently due to a change in the environment. Alterations in ecological and social systems because of environmental changes will hopefully result in a bend towards sustainability; with legislative and government entities reacting to varied policy and management issues concerning the building, management and restoration of social-ecological systems on a regional and global scale. Unraveling is required at the regional level, where physical features of the landscape, biological systems and human institutions connect. This book functions to disperse theoretical and applied studies on the correlation between human and natural systems from a multidisciplinary research outlook on global environmental change. Interdisciplinary approaches, long-term research, and a practical answer to the expanding intensity of problems related to changes in environment are combined within the book, and it is intended for a wider target audience ranging from students to specialists.



Rosemary Charles

ISBN
978-1-63239-311-1

\$140.00 US

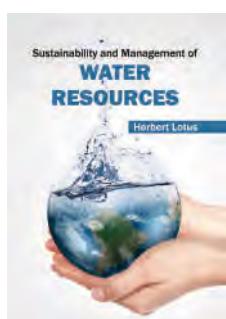
2015

Book Size
6"x9"307pp.
Colored

Hardback

Environmental Change and Sustainability

Various issues related to the diverse challenges faced for sustainable change have been dealt in this elucidative book. Across the globe, climate, ecology and environment are facing rapid changes brought about by human interference. This has been further accelerated by growing population, industrialization and a globally expanding economy. Sustainability is a term used to describe policy principals that attempt to even the odds of economic development and environmental issues that arise from it. This book is a valuable addition towards the studies for sustainable ways to tackle global environmental change. The authors of this text have delved into the finer details of environmental changes that are being witnessed in various parts of the world. Various topics discussed throughout this book explain the need for location specific sustainable development. This book presents a timely overview on the relationship between environmental change and sustainability, approaches mentioned in natural science and importance of the understanding of environmental change interpreted by human beings. The emerging role of external events in shaping up befitting responses pertaining to environmental changes and role of sustainable development for reduction in risks and challenges as a way of reducing vulnerability have been examined closely. Global processes for a sustainable development model that synthesizes local, traditional knowledge of the environment and environmental management with the techniques and understandings generated by modern environmental science have also been elucidated in this expansive book on environmental change.



Herbert Lotus

ISBN
978-1-63239-575-7

\$90.00 US

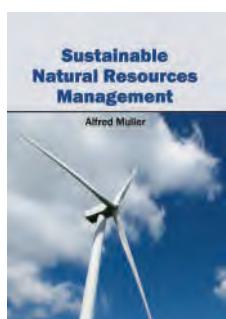
2015

Book Size
6"x9"190pp.
Colored

Hardback

Sustainability and Management of Water Resources

The effective management of water resources is the need of the hour. This book is a compilation of effective viewpoints related to water resources, planning, improvement and management, which will be beneficial for both professionals and researchers. Writers with exceptional expertise address a wide range of topics like planning strategies, water quality modeling and monitoring, erosion prediction, freshwater inflows to estuaries, coastal reservoirs, irrigation management, aquifer recharge, and water allocation.



Alfred Muller

ISBN
978-1-63239-585-6

\$90.00 US

2015

Book Size
6"x9"177pp.
Colored

Hardback

Sustainable Natural Resources Management

This book brings forth important issues in conservation of natural resources which has come to acquire a position of major concern in both developed and developing countries. Population increase, resource use conflicts, technological advancements, climate change, political doldrums, and unsustainable use and harvesting of resources have all put an increased burden on natural resources causing land degradation and poverty. To accomplish a win-win situation, we need to advance our mindset by considering alternative modes of thought through favoring integrated and holistic approaches in managing our natural resources. This book brings forth a range of sustainable strategies and approaches consisting of use of GIS and Remote Sensing technologies, decision support system models, involvement of stakeholders in primary decisions about consumption of natural resources, community level initiatives, and use of surveillance and monitoring mechanisms.

Environmental Sciences

Sustainable Development

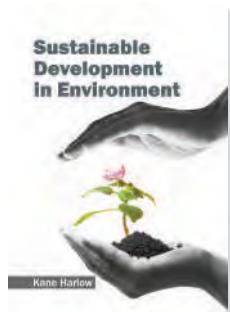


Kane Harlow	ISBN 978-1-63239-415-6	\$120.00 US	2015	Book Size 6"x9"	276pp. Colored	Hardback
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Handbook of Sustainable Development

This book highlights the importance of adopting a sustainable approach to development processes. The technological development of the human civilization has generated a consumer society spreading faster than the resources of Earth allow, with the demands on energy requirements growing exponentially in the last century. Protecting the future of human race requires an improved comprehension of the environment as well as of scientific solutions, behaviors and attitudes in line with the modes of advancement that the ecosphere of Earth can withstand. Certain veterans see this as the only solution in a global deflation of the presently unsustainable exploitation of resources; however, sustainable development presents an approach that would be practical to fuse with the managerial techniques and evaluation tools for policy and decision makers at the regional planning level. Architects, policy makers, environmentalists, engineers and economists will have to work hand in hand for the purpose of ensuring that development and planning can satisfy the current requirements of society without compromising the security of future generations. This book will provide valuable approaches and practical solutions in achieving the targets of sustainable development.

Sustainable Development

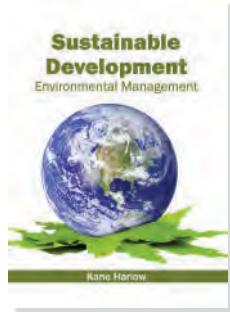


Kane Harlow	ISBN 978-1-63239-578-8	\$120.00 US	2015	Book Size 6"x9"	290pp. Colored	Hardback
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Sustainable Development in Environment

The issue of environmental management has gained frequency in recent years. In sustainable development circumstances, central and local governments more often observe the necessity of acting in ways that decreases negative impact on environment. Environmental management occurs at different levels- commencing from global level; for instance, climatic changes, by way of national and regional level (environmental policy) and concluding on micro level. This book displays many examples of environmental management. The multiplicity of presented aspects within environmental management and approaching the subject from the prospects of various countries contributes considerably to the development of research fields of environmental management.

Sustainable Development

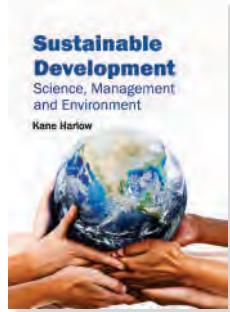


Kane Harlow	ISBN 978-1-63239-579-5	\$140.00 US	2015	Book Size 6"x9"	323pp. Colored	Hardback
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Sustainable Development: Environmental Management

The issue of environmental management has gained frequency in recent years. In sustainable development circumstances, central and local governments more often observe the necessity of acting in ways that decreases negative impact on environment. Environmental management occurs at different levels- commencing from global level; for instance, climatic changes, by way of national and regional level (environmental policy) and concluding on micro level. This book displays many examples of environmental management. The multiplicity of presented aspects within environmental management and approaching the subject from the prospects of various countries contributes considerably to the development of research fields of environmental management.

Sustainable Development

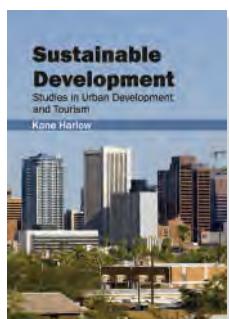


Kane Harlow	ISBN 978-1-63239-580-1	\$120.00 US	2015	Book Size 6"x9"	296pp. Colored	Hardback
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Sustainable Development: Science, Management and Environment

The technological improvement of our civilization has established a consumer society growing more rapidly than the planet's resources allow, with the needs for resource and energy rising exponentially in the past century. For the assurance of a secured future for humans, an enhanced comprehension of the environment as well as technological solutions, behaviors and mindsets is important, in accordance with modes of development that the ecosphere of earth can support. Sustainable development provides an approach that would be useful to blend with the managerial strategies and assessment tools for decision and policy makers at the regional planning level. This book focuses on sustainability and its application in life sciences, business and management, and environment.

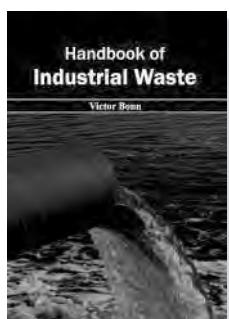
Environmental Sciences



Kane Harlow	ISBN 978-1-63239-581-8	\$110.00 US	2015	Book Size 6"x9"	205pp. Colored	Hardback
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Sustainable Development: Studies in Urban Development and Tourism

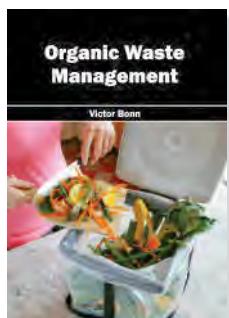
The technological improvement of our civilization has established a consumer society growing more rapidly than the planet's resources allow, with the needs for resource and energy rising exponentially in the past century. For the assurance of a secured future for humans, an enhanced comprehension of the environment as well as technological solutions, behaviors and mindsets is important, in accordance with modes of development that the ecosphere of earth can support. Sustainable development provides an approach that would be useful to blend with the managerial strategies and assessment tools for decision and policy makers at the regional planning level. Thus, the book covers important chapters grouped under two sections, "Policy and Sustainable Urban Development" and "Sustainable Tourism".



Victor Bonn	ISBN 978-1-63239-400-2	\$120.00 US	2015	Book Size 6"x9"	286pp. Colored	Hardback
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Handbook of Industrial Waste

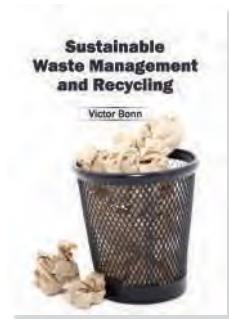
An elucidative account on industrial waste has been highlighted in this book. It focuses on the need for development of disposal methods for industrial wastes from various kinds of industries. It is based on current ongoing research and discusses efficient and effective methods of treatment of various types of wastes, minimization of industrial wastes, techniques of waste control and abatement, and the release of industrial wastes into the environment and its impact. It also presents an updated review summarizing the status and prospects of industrial waste difficulties from various perspectives. This book consists of an extensive range of topics so as to make the readers aware of the current information and advancement in the field, where various aspects are considered.



Victor Bonn	ISBN 978-1-63239-498-9	\$110.00 US	2015	Book Size 6"x9"	210pp. Colored	Hardback
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Organic Waste Management

This book presents research on the usage of organic waste through composting and vermicomposting, biogas production, recovery of waste materials and the chemistry involved in the processing of organic waste under various processing methods. It also provides information on the collection systems and the disposal of wastes.



Victor Bonn	ISBN 978-1-63239-586-3	\$140.00 US	2015	Book Size 6"x9"	306pp. Colored	Hardback
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Sustainable Waste Management and Recycling

The purpose of this book is to deal with various facets of waste material recycling. It contains different sections that elaborate on the roles of stakeholders, both informal and formal sectors, in post-consumer waste activities; waste collection programs for recycling; analysis tools for recycling system; recycling process and optimal production. This book aims to transmit both the necessity and the mode for recycling, as well as resource conservation activities to a wide audience at the academician and professional level. It also contributes to the formation of a sound material-cycle society.

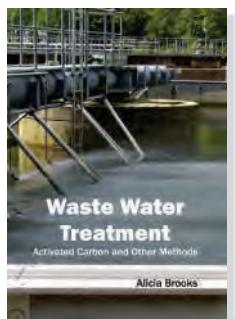
Environmental Sciences



Victor Bonn	ISBN 978-1-63239-604-4	\$150.00 US	2015	Book Size 6"x9"	363pp. Colored	Waste Management Hardback
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Waste Management: A Modern Approach

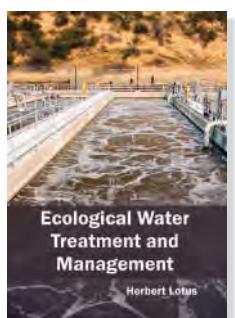
A modern approach in the field of waste management has been extensively discussed in this profound book. Solid waste management poses significant challenges for society because of its great variability in composition and production, and also due to its environmental and sanitary effects. For the purpose of fighting against this situation, this book has been compiled of analyses of technical and conceptual advancements and experiences gained through research and development projects worldwide. In addition to decreasing generation, regarded as the most preferable practice, this book also presents alternatives of valuation for potentially recoverable waste and techniques to decrease final conditioning and disposition risks. The book also covers the political, technical, social and economic aspects for the purpose of finding solutions for solid waste management.



Alicia Brooks	ISBN 978-1-63239-605-1	\$75.00 US	2015	Book Size 6"x9"	101pp. Colored	Waste Management Hardback
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Waste Water Treatment: Activated Carbon and Other Methods

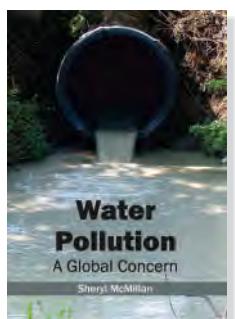
Waste water treatment is an important issue globally and the introduction of activated carbons as a tool for the same has significantly enhanced the efficiency of many waste water treatment methods. This text reviews the principal lignocellulosic indicators applied in the elaboration of activated carbons in various nations in continents like Asia, America, Europe and Africa. Various processes and trial conditions used to synthesize activated carbons, including analysis of the major stages of preparation such as carbonization and activation have been elaborated in this book. Additionally, latest specialized methods used in the process have also been discussed here. These include the procedures used to establish textural parameters, various spectroscopies to ascertain the chemical functionality (Raman, FT-IR, etc.) and other X-Ray procedures. Also, the uses of activated carbons synthesized from lignocellulosic precursors for wastewater treatment have been discussed. Particularly, the text is meant to shed light on the benefits and potential of activated carbons for the elimination of related toxic materials and impurities from water. Lastly, usage of pyrolysis process for the valorization of two typical Mexican farm wastes (orange peel and pecan nut shell) for energy creation and carbon generation has been reviewed in this text.



Herbert Lotus	ISBN 978-1-63239-158-2	\$120.00 US	2015	Book Size 6"x9"	250pp. Colored	Water Management Hardback
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Ecological Water Treatment and Management

The pollution of aquatic environment also reduces possible uses of water, especially those that require high quality standards i.e. for drinking purposes. This book discusses different problems regarding the quality of water and also focuses on the current techniques of water treatment. The primary emphasis is on sustainable choices of water usage that prevent water quality difficulties and aim at the protection of available water resources, and the development of the aquatic ecosystems. The focus is on the biological aspects of water quality using bioindices and biosensors.

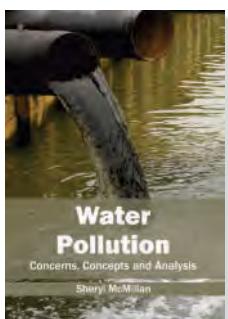


Sheryl McMillan	ISBN 978-1-63239-608-2	\$110.00 US	2015	Book Size 6"x9"	214pp. Colored	Water Management Hardback
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Water Pollution: A Global Concern

The growing concerns over availability of clean water have been elucidated in this insightful book. Water pollution is a significant problem globally that requires ongoing investigation and revision of water resource policy at all levels - from international level to individual aquifers and wells. It has been implied that it is the leading worldwide cause of deaths and diseases, and that it accounts for the deaths of more than 14,000 people on a daily basis. In addition to the severe water pollution problems in developing countries, industrialized countries keep struggling with pollution problems as well. Water is commonly referred to as polluted when it is flawed by anthropogenic contaminants and either does not support human usage, such as drinking water, and/or undergoes a marked change in its capability to support its constituent biotic communities, such as fish. Natural phenomena like volcanoes, algae blooms, storms and earthquakes also cause notable changes and shifts in the water quality and the ecological status of water. In course of time, most water pollutants are carried by rivers into the oceans.

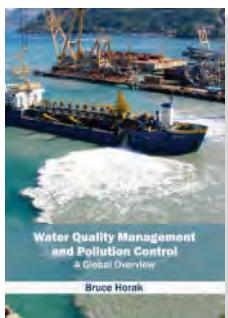
Environmental Sciences



Water Management					
Sheryl McMillan	ISBN 978-1-63239-609-9	\$80.00 US	2015	Book Size 6"x9"	115pp. Colored Hardback

Water Pollution: Concerns, Concepts and Analysis

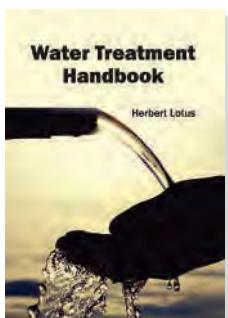
This book discusses important issues related to water pollution which holds significant concern globally. Water is an essential natural resource which plays a key role in the ecological system. Human use of water is based upon ambient water quality, and human alterations of the land use adversely affect the water quality. Water is commonly referred to as polluted when its quality is unfavorably affected by contaminants and undergoes a marked shift in its ability to support the biological communities. The book caters to the needs of research scholars, hydrologists and environmentalists and especially, students.



Water Management					
Bruce Horak	ISBN 978-1-63239-611-2	\$80.00 US	2015	Book Size 6"x9"	129pp. Colored Hardback

Water Quality Management and Pollution Control: A Global Overview

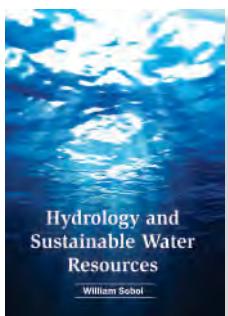
Water is a prerequisite for any form of life. The level of surface water quality protection is uneven around the world due to the relative efficiency of ecological instruction and the scale to which science influences the regulatory procedure. In the US, the Total Maximum Daily Load (TMDL) has been a triumphant policy for water quality treatment process. The TMDL offers a balanced structure for estimating the assimilative capability of the receiving water body for certain contaminants, applying factors of security and incorporating suitable levels of water quality criteria violation - provided the local stakeholders have a say in the decision making process. This book is a compilation of all such researches which will help our readers in understanding the topic better.



Water Management					
Herbert Lotus	ISBN 978-1-63239-622-8	\$150.00 US	2015	Book Size 6"x9"	393pp. Colored Hardback

Water Treatment Handbook

Water is a limited resource which needs effective management. Economic growth, population escalation, and ecological pollution occurring in numerous parts of the world are placing huge demands on accessible resources of fresh water and reflecting a "water crisis". Resource supervision, well-organized consumption of the water resources, and water refining are the alternatives to resolve the water crisis. Refinement techniques include conventional techniques that have lasted for more than a few centuries without major modifications, as well as, latest modern techniques. This book consists of numerous topics related to either improving the existing treatment techniques or the latest advanced techniques.

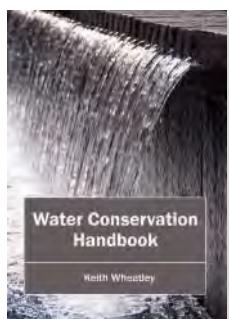


Water Management					
William Sobol	ISBN 978-1-63239-426-2	\$140.00 US	2015	Book Size 6"x9"	339pp. Colored Hardback

Hydrology and Sustainable Water Resources

This book brings forth both significant challenges in the sphere of water resource management and various approaches to resolving them. From drinking to agriculture, and sanitation to industrial needs, people depend on fresh-water reserves for a myriad of activities essential for the smooth and efficient functioning of their daily lives. Hence, understanding the threats and problems pertaining to freshwater resources is critical. There is also a growing need to work towards enhancing the availability of water resources to all. This book is an important tool to address the need for improvements in resources and reduction of threats by giving an assessment of available reviews and case studies that shed light on methods of contamination in the environment. Additionally, it provides details on the sustenance of groundwater and surface-water resources across the globe. This book is meant for students and professionals working in fields which are closely associated with water management and hydrology.

Environmental Sciences

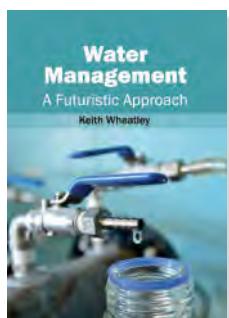


Water Management

Keith Wheatley | ISBN 978-1-63239-606-8 | \$90.00 US | 2015 | Book Size 6"x9" | 164pp. Colored | Hardback

Water Conservation Handbook

A collection of various perspectives on the conservation and management policies of water has been presented in this unique book. Water is an essential and basic human need for urban, industrial and agricultural usage. Though there is abundance in fresh water resources, its uneven distribution across the world has generated challenges for sustainable use of this resource. Water conservation refers to an efficient and optimal usage of water, and the protection of valuable water resources. This book lays emphasis on some commonly used tools and techniques like rainwater harvesting, water reuse and recycling, cooling water recycling, irrigation techniques like drip irrigation, agricultural management methods, groundwater management and water conservation incentives.

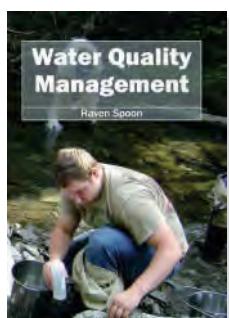


Water Management

Keith Wheatley | ISBN 978-1-63239-607-5 | \$150.00 US | 2015 | Book Size 6"x9" | 354pp. Colored | Hardback

Water Management: A Futuristic Approach

A futuristic approach in water management has been discussed in this descriptive book. It is estimated that there is nearly 1.4 billion km³ of water in this world but only about 3% (39 million km³) of it is available as fresh water. Furthermore, most of this fresh water is found as ice in the arctic regions, atmospheric water or deep groundwater. Since water is a source of life and is vital for all forms of life across the planet, its sustainable use is an extremely crucial issue. Water Management is the fundamental term employed for elucidating all the activities involved in managing the optimum use of the world's water resources. However, only a small percentage of fresh water available can be subjected to water management. It is still a huge amount, but the distinct characteristic of water is that unlike other resources, it is irreplaceable. This book describes an elementary analysis on several topics related to water management from across the globe. The topics elucidated in this book cover politics, recent models for water resource management of rivers and reservoirs as well as issues associated with agriculture. Growing water demands, water quality problems and water pricing have also been considered. Reputed scientists and experts from across the world have contributed descriptive information in this book. It covers a broad range of current issues, describing the current problems and illustrating the complexity of water management.

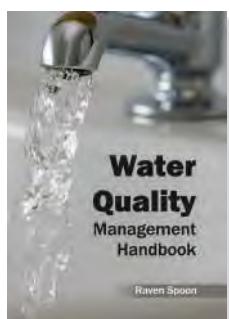


Water Conservation

Raven Spoon | ISBN 978-1-63239-610-5 | \$140.00 US | 2015 | Book Size 6"x9" | 349pp. Colored | Hardback

Water Quality Management

The chemical, biological, physical and other characteristics of water define its quality. This book endeavors to present water quality issues by presenting case studies from around the globe. The basic concern of the book is the physicochemical properties of surface and ground water. It even throws light on the possible pollution sources and suggests some tools and methods to estimate the water quality status. This book discusses issues related to the examination of water quality.



Water Conservation

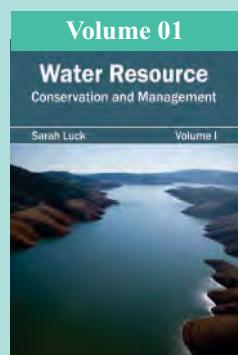
Raven Spoon | ISBN 978-1-63239-612-9 | \$120.00 US | 2015 | Book Size 6"x9" | 278pp. Colored | Hardback

Water Quality Management Handbook

Water quality monitoring is essential for a healthy life. The book endeavors to present water quality issues by presenting case studies from around the globe. The basic concern of the book is the physicochemical properties of surface and ground water. It even throws light on the possible pollution sources and suggests some tools and methods to estimate the water quality status. This book focuses primarily on topics related to the statistical analysis of water quality.

Environmental Sciences

Water Conservation



Volume 01

Water Resource
Conservation and Management

Sarah Luck

ISBN
978-1-63239-613-6

\$150.00 US

2015

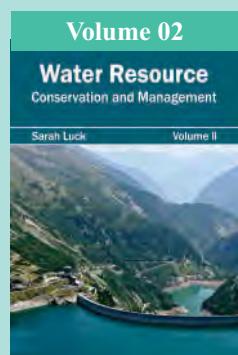
Book Size
8.5"x11"

216pp.
Colored

Hardback

Water Resource: Conservation and Management

Over the years, water has grown from an abundant to a scarce resource. The amount of water available is constant whereas the demand is consistently rising. Through the researches in this book, the reader will get an in-depth knowledge about water resources and their protection, which will help them decide the course of their research ahead. The book also aims to present current and innovative concepts for the conservation and protection of water resources.



Volume 02

Water Resource
Conservation and Management

Sarah Luck

ISBN
978-1-63239-614-3

\$150.00 US

2015

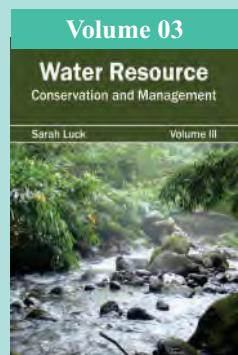
Book Size
8.5"x11"

219pp.
Colored

Hardback

Water Resource: Conservation and Management

Over the years, water has grown from an abundant to a scarce resource. The amount of water available is constant whereas the demand is consistently rising. Through the researches in this book, the reader will get an in-depth knowledge about water resources and their protection, which will help them decide the course of their research ahead. The book also aims to present current and innovative concepts for the conservation and protection of water resources.



Volume 03

Water Resource
Conservation and Management

Sarah Luck

ISBN
978-1-63239-615-0

\$150.00 US

2015

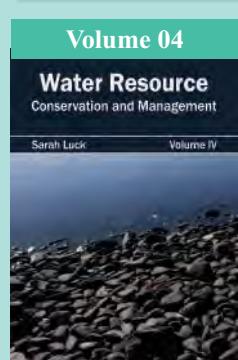
Book Size
8.5"x11"

216pp.
Colored

Hardback

Water Resource: Conservation and Management

Over the years, water has grown from an abundant to a scarce resource. The amount of water available is constant whereas the demand is consistently rising. Through the researches in this book, the reader will get an in-depth knowledge about water resources and their protection, which will help them decide the course of their research ahead. The book also aims to present current and innovative concepts for the conservation and protection of water resources.



Volume 04

Water Resource
Conservation and Management

Sarah Luck

ISBN
978-1-63239-616-7

\$150.00 US

2015

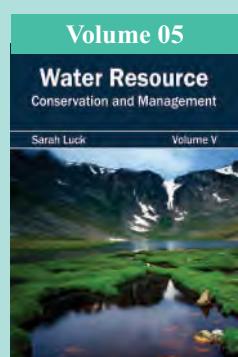
Book Size
8.5"x11"

219pp.
Colored

Hardback

Water Resource: Conservation and Management

Over the years, water has grown from an abundant to a scarce resource. The amount of water available is constant whereas the demand is consistently rising. Through the researches in this book, the reader will get an in-depth knowledge about water resources and their protection, which will help them decide the course of their research ahead. The book also aims to present current and innovative concepts for the conservation and protection of water resources.



Volume 05

Water Resource
Conservation and Management

Sarah Luck

ISBN
978-1-63239-617-4

\$150.00 US

2015

Book Size
8.5"x11"

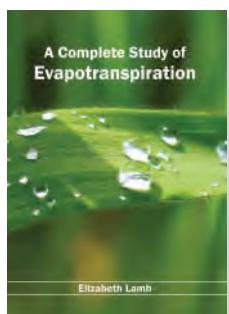
213pp.
Colored

Hardback

Water Resource: Conservation and Management

Over the years, water has grown from an abundant to a scarce resource. The amount of water available is constant whereas the demand is consistently rising. Through the researches in this book, the reader will get an in-depth knowledge about water resources and their protection, which will help them decide the course of their research ahead. The book also aims to present current and innovative concepts for the conservation and protection of water resources.

Environmental Sciences

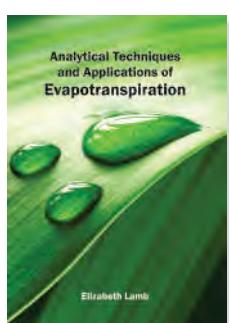


Hydrology

Elizabeth Lamb	ISBN 978-1-63239-006-6	\$120.00 US	2015	Book Size 6"x9"	282pp. Colored	Hardback
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A Complete Study of Evapotranspiration

Evapotranspiration is the total water loss by plants to atmosphere in the form of transpiration and evaporation. Specialists in the field of evapotranspiration with extensive expertise have collaborated to bring forth this text which elaborates the latest developments in physics of the processes of evaporation and evapotranspiration. With path-breaking and up-to-date research on methods and templates used globally, it presents the role of modern technology and instrumentation. Those who read or refer to this text will benefit vastly from the in-depth analysis and the diverse backgrounds and setups, where the models, utilization and methods have been put to test. Numerous factors affect and influence the perceived and actual demand of water by the atmosphere. This book presents not only the information to improve the procedures for estimating evapotranspiration, but also provides students and scientists with pathways to interpret, manage and evaluate the observed data.

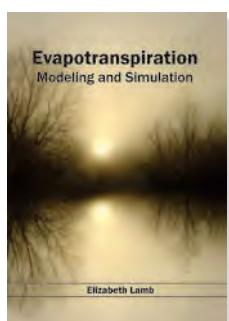


Hydrology

Elizabeth Lamb	ISBN 978-1-63239-070-7	\$160.00 US	2015	Book Size 6"x9"	425pp. Colored	Hardback
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Analytical Techniques and Applications of Evapotranspiration

The book includes an analysis of the assessed measurement methods of evapotranspiration. It includes the related operations to the optimization of water usage in the field of agriculture and to the study of ecosystems. Also, various measuring methods are discussed with comprehensive explanations and examples. Some of them are methods at the leaf, agro-ecosystem and plant levels. For optimized water usage in agricultural field, definite measurements on transpiration requirements of crops and various cultivars, as well as conclusions of various irrigation methods and experiments in semi-arid areas for open field, greenhouse and potted grown plants are discussed in the book. Apart from this, some other topics discussed within the book are the features of ET of crops in saline surroundings, effects of ET on groundwater quality in xeric surroundings and the application of ET to climatic classification. The book presents an overview for both researchers and students who wish to know more about these subjects.

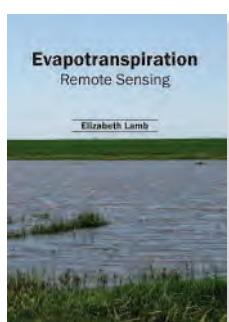


Hydrology

Elizabeth Lamb	ISBN 978-1-63239-332-6	\$120.00 US	2015	Book Size 6"x9"	300pp. Colored	Hardback
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Evapotranspiration: Modeling and Simulation

This book contains several well researched topics associated with various aspects and properties of evapotranspiration. These fields are the leading technologies that measure the extremely spatial ET from the planet's surface. The analyses explain technicalities of ET simulation from incompletely vegetated surfaces and stomatal conductance behavior of natural and agricultural ecosystems. Evaluation strategies that use weather based ways such as soil water balance, temperature-radiation based methods and many others have been explained. Suggested guiding principles for applying operational satellite-based energy balance models and overcoming common challenges have also been included.



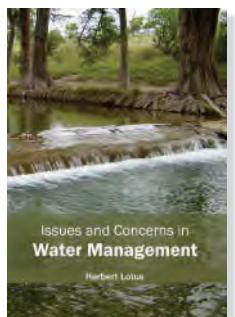
Hydrology

Elizabeth Lamb	ISBN 978-1-63239-333-3	\$110.00 US	2015	Book Size 6"x9"	238pp. Colored	Hardback
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Evapotranspiration: Remote Sensing

This book contains several well researched topics associated with various aspects and properties of evapotranspiration (ET) including remote-sensing based balancing determination and simulation of ET. These fields are the leading technologies that measure the extremely spatial ET from the planet's surface. The analysis explain technicalities of ET simulation from incompletely vegetated surfaces and stomatal conductance behavior of natural and agricultural ecosystems. A crucial review explains strategies used in hydrological structures and the applications explain ET arrangements in alpine catchments, under water shortage, under climate modification, and for grasslands and pastures. Suggested guiding principles for applying operational satellite-based energy balance models and overcoming common challenges have also been included.

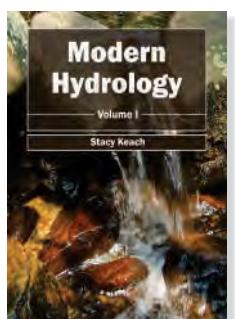
Environmental Sciences



Herbert Lotus	ISBN 978-1-63239-438-5	\$120.00 US	2015	Book Size 6"x9"	286pp. Colored	Hydrology Hardback
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Issues and Concerns in Water Management

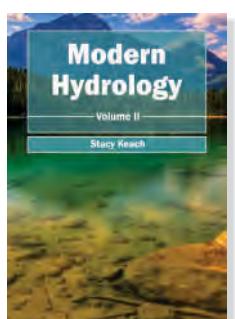
Development in the processes and applications of water management is a matter of great concern. The aim of this book is to provide a better understanding of various aspects related to water management applications. It illustrates a wide range of applications and technologies which have been developed and used by researchers for managing water resource difficulties. This multidisciplinary book discusses varied water management topics like managing surface water, groundwater, water quality and water resource planning. This book will be helpful for researchers, policy-makers and non-governmental organizations working on water related projects in several countries around the world.



Stacy Keach	ISBN 978-1-63239-464-4	\$150.00 US	2015	Book Size 8.5"x11"	212pp. Colored	Hydrology Hardback
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Modern Hydrology: Volume I

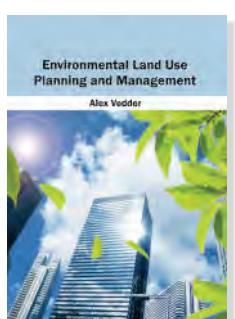
In the present scenario, with water scarcity being a fast approaching possibility, the relevance of hydrological studies has increased manifold. Water is essential for human life; thus understanding its properties, quality and other aspects has always been an important area of research. Through this book, we attempt to further enlighten the readers about the new concepts in the field.



Stacy Keach	ISBN 978-1-63239-465-1	\$150.00 US	2015	Book Size 8.5"x11"	214pp. Colored	Hydrology Hardback
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Modern Hydrology: Volume II

In the present scenario, with water scarcity being a fast approaching possibility, the relevance of hydrological studies has increased manifold. Water is essential for human life; thus understanding its properties, quality and other aspects has always been an important area of research. Through this book, we attempt to further enlighten the readers about the new concepts in the field.

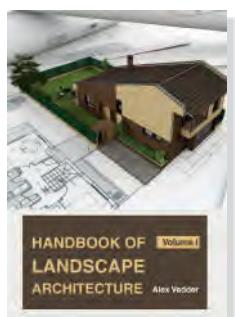


Alex Vedder	ISBN 978-1-63239-313-5	\$110.00 US	2015	Book Size 6"x9"	244pp. Colored	Urban Studies and Planning Hardback
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Environmental Land Use Planning and Management

Effective planning and management is of great significance for sustainable land use. This book brings forth a compilation of the opinions and ideas of renowned experts in the sphere of environmental problems and how it affects land use. Various aspects like the function of governments, community grants, environmental planning and other tools used in the work have been extensively discussed. Various well researched topics from around the world have been included with contributions by experts from countries like the US, Brazil, Serbia, Germany, China and Venezuela. This text presents an in-depth analysis of issues like latest developments in land use patterns, eco-footprint analysis, behavioral modelling and flood control methods. The insights shared in this book will prove handy for research and reference on environment management.

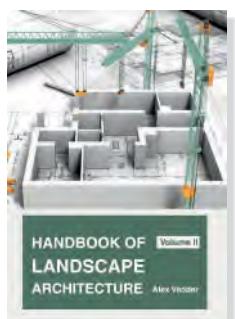
Environmental Sciences



Alex Vedder	ISBN 978-1-63239-000-4	\$150.00 US	2015	Book Size 6"x9"	410pp. Colored	Hardback
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Handbook of Landscape Architecture: Volume I

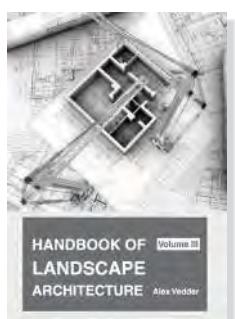
Landscape architecture focuses on designing public spaces for varied purposes. This sort of method requires an inquiry into social, ecological, and geological circumstances and procedures in the landscape, and the design of the mediations that will lead to the desired result. The breadth of this includes urban design, location planning, urban planning, environmental rejuvenation, parks and recreation planning, visual resource management, green infrastructure planning and provision, and private estate and residence landscape master planning and design. All of these features are accomplished via varied levels of design, planning and management. This book discusses current advancements in the field of landscape architecture and will be beneficial for readers interested in this field.



Alex Vedder	ISBN 978-1-63239-001-1	\$140.00 US	2015	Book Size 6"x9"	336pp. Colored	Hardback
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Handbook of Landscape Architecture: Volume II

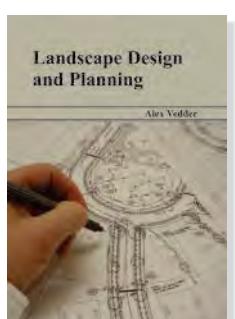
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Alex Vedder	ISBN 978-1-63239-002-8	\$110.00 US	2015	Book Size 6"x9"	214pp. Colored	Hardback
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Handbook of Landscape Architecture: Volume III

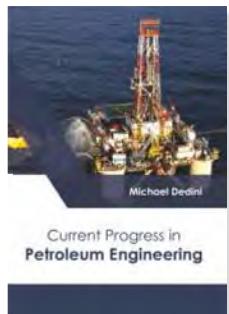
Landscape architecture focuses on designing public spaces for varied purposes. This sort of method requires an inquiry into social, ecological, and geological circumstances and procedures in the landscape, and the design of the mediations that will lead to the desired result. The breadth of this includes urban design, location planning, urban planning, environmental rejuvenation, parks and recreation planning, visual resource management, green infrastructure planning and provision, and private estate and residence landscape master planning and design. All of these features are accomplished via varied levels of design, planning and management. This book discusses current advancements in the field of landscape architecture and will be beneficial for readers interested in this field.



Alex Vedder	ISBN 978-1-63239-443-9	\$150.00 US	2015	Book Size 6"x9"	372pp. Colored	Hardback
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Landscape Design and Planning

Landscape architecture is a multi-disciplinary field comprising urban design and planning, site planning and related topics. Landscape architecture is the creation of outdoor and communal spaces to accomplish environmental, socio-behavioral and aesthetic outcomes. It requires the organized analysis of current social and geological circumstances in the landscape, and the plan of interventions that will generate the required outcome. The scope of the profession includes: urban plan; site preparation; green infrastructure arrangement and condition; and personal property and house landscape master drawing and design – all at varying scales of design, preparation and management. This book includes units on recent developments in researches of landscape architecture. For this reason, the book would be helpful to the related professional disciplines.



Energy

Michael Dedini

ISBN
978-1-63239-888-8

\$132.00 US

2017

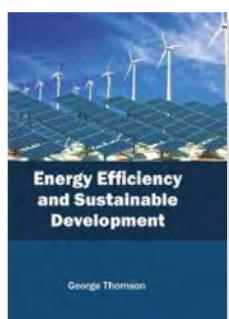
Book Size
8.5"×11"

225pp.
Colored

Hardback

Current Progress in Petroleum Engineering

This book on petroleum engineering deals with the theoretical and technical aspects of petroleum exploration and extraction. Reservoir engineering is the primary methodology that is implemented in the extraction of crude oil. Modern technology in this field seeks to be cost-effective, environmentally friendly and efficient in petroleum recovery. The use of computer technology for reservoir design and hydraulic fracturing are other modern innovations in this field. The various advancements in petroleum engineering are glanced at and their applications as well as ramifications are looked at in detail. Different approaches, evaluations and methodologies in this field have been included in this book. Students, researchers, experts and all associated with petroleum engineering will benefit alike from this book.



Energy

George Thomson

ISBN
978-1-63239-896-3

\$145.00 US

2017

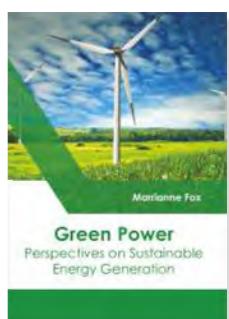
Book Size
7"×10"

251pp.
Colored

Hardback

Energy Efficiency and Sustainable Development

Energy efficiency is the process whereby the per unit consumption of electricity is greatly reduced. This book on energy efficiency and sustainable development discusses a variety of topics related to energy efficiency such as sustainable or green energy technology production, energy efficient building design and manufacture of efficient electric devices. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. This book includes some of the vital pieces work being conducted across the world, on various topics related to energy efficiency. It will prove to be immensely beneficial to students and researchers in this field.



Energy

Marianne Fox

ISBN
978-1-63239-873-4

\$135.00 US

2017

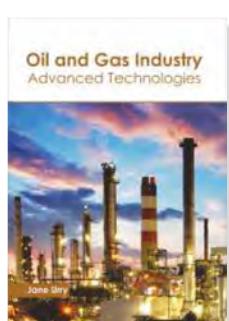
Book Size
8.5"×11"

235pp.
Colored

Hardback

Green Power: Perspectives on Sustainable Energy Generation

Green power or sustainable energy is defined as the harvesting of electric power from sources that are replenishable. This book on green power deals with the various technologies that are used in the creation of sustainable energy. Sustainable energy is closely related to sustainable development and green power. The aim of this book is to present researches that have transformed this discipline and aided its advancement. The topics introduced here are of utmost significance and are bound to provide detailed knowledge to readers about the various theories and techniques of sustainable energy. This book is a complete source of knowledge on the present status of this important field. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals.



Energy

Jane Urry

ISBN
978-1-63239-863-5

\$145.00 US

2017

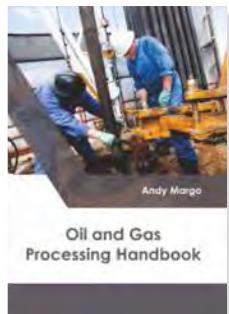
Book Size
8.5"×11"

249pp.
Colored

Hardback

Oil and Gas Industry: Advanced Technologies

The oil and gas industry is one of the largest and most advanced sectors of engineering. This book on the oil and gas industry discusses topics related to well logging, reservoir engineering and drilling. Recent developments in the field of oil and gas engineering or petroleum engineering are related to technologies concerning oil and gas recovery and extraction as well as improved computational methods for fluid dynamics. This book discusses the fundamentals as well as modern approaches of this field. This book elucidates the concepts and innovative models around prospective developments with respect to the oil and gas sector. This text presents researches and studies performed by experts across the globe. This book, which is informed by the latest techniques that are available in oil and gas exploration and extraction, will be of great help to researchers in the fields of petroleum engineering, fluid dynamics and geology. The extensive content of this book on oil and gas industry provides the readers with a thorough understanding of the subject.



Andy Margo

ISBN
978-1-63239-889-5

\$130.00 US

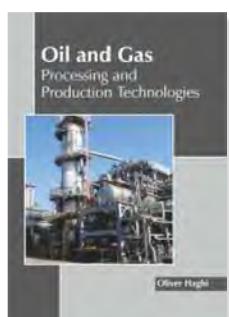
2017

Book Size
8.5"×11"216pp.
Colored

Hardback

Oil and Gas Processing Handbook

This book on oil and gas processing discusses the various processes that are involved in petroleum refining such as distillation, dimerization and fluid cracking. Oil refineries can have different configurations depending on the end product. Such plants also require adequate storage facilities, electricity and cooling water for proper functioning. Those in search of information to further their knowledge will be greatly assisted by this book. The various sub-fields of oil and gas processing along with technological progress that have future implications are glanced at. This book is a vital tool for all researching or studying oil and gas processing as it gives incredible insights into emerging trends and concepts.



Oliver Hagh

ISBN
978-1-63239-864-2

\$145.00 US

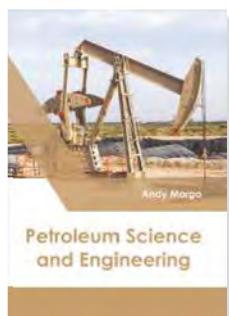
2017

Book Size
8.5"×11"249pp.
Colored

Hardback

Oil and Gas: Processing and Production Technologies

This book elucidates the concepts and innovative models around prospective developments with respect to oil and gas processing. It presents researches and studies performed by experts across the globe. Oil and gas processing and production falls under the field of petroleum geology. The main aim of this field is to remove, separate and transform hydrocarbons from the mixed hydrocarbons which contain various components like nitrogen, possibly hydrogen sulfide (H₂S), carbon dioxide (CO₂), dirt, scale, etc. The different sub-fields of this subject along with technological progress that have future implications are glanced at in this text. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in it. Researchers and students in this area will be assisted by this text. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study.



Andy Margo

ISBN
978-1-63239-887-1

\$132.00 US

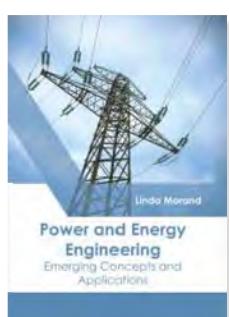
2017

Book Size
8.5"×11"226pp.
Colored

Hardback

Petroleum Science and Engineering

Petroleum science refers to the exploration, extraction and refining of petroleum and natural gas. This book on petroleum science and engineering focuses on the methods, theories, concepts and applications that are used in the various processes related to petroleum manufacturing. All aspects of petroleum engineering, from reservoirs to drilling to the production of formation fluids are highlighted in this book. The aim of this text is to present researchers that have transformed this discipline and aided its advancement. It is a vital tool for all researching and studying this field. For all those who are interested in petroleum science and engineering, it can prove to be an essential guide.



Linda Morand

ISBN
978-1-63239-871-0

\$140.00 US

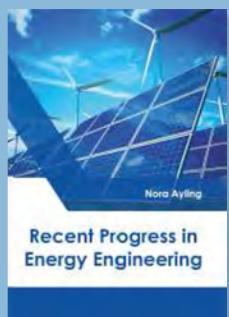
2017

Book Size
8.5"×11"238pp.
Colored

Hardback

Power and Energy Engineering: Emerging Concepts and Applications

Power engineering can be defined as the development of energy harnessing and distributing technologies that improve energy efficiency. This book on power and energy engineering discusses the design and maintenance of energy technologies. This book attempts to understand the multiple branches that fall under the discipline of power and energy engineering and how such concepts have practical applications. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. This text aims to advance the already existing knowledge on energy engineering and energy efficiency technologies. Students, researchers, experts and all associated with this field will benefit alike from this book. For all those who are interested in energy engineering, this book can prove to be an essential guide.



Energy

Nora Ayling

ISBN
978-1-63239-872-7

\$125.00 US

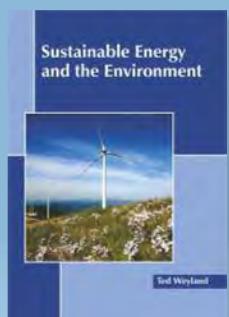
2017

Book Size
8.5"×11"200pp.
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Hardback

Recent Progress in Energy Engineering

Energy engineering is defined as the design and development of electrical systems and circuits that enable transmission and distribution of electrical energy. This book on energy engineering discusses the various technological advances that have been made in the field of energy engineering. Renewable energy practices and efforts to increase work per unit of energy are methods that are followed in this field. It presents this complex subject in the most comprehensible and easy to understand language. This book aims to shed light on some of the unexplored aspects of energy engineering and the recent researches in this area. There has been rapid progress in this field and its applications are finding their way across multiple industries. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts.



Energy

Ted Weyland

ISBN
978-1-63239-866-6

\$127.00 US

2017

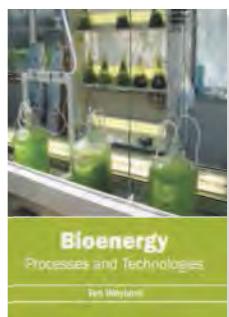
Book Size
8.5"×11"208pp.
Colored

Hardback

Sustainable Energy and the Environment

Energy is required to do the most basic to the most complex actions in today's world. Exploitation of resources can cause severe energy crisis in the coming years. Therefore, sustainable use of energy is the need of the hour. The different alternatives to fossil-fuel based energy are hydroelectricity, wind energy, solar power, bioenergy, tidal power, geothermal power, etc. This book will provide knowledgeable insights into the field of sustainable energy and its positive impacts on environment. Some of the diverse topics covered in it will address the varied branches that fall under this category. As this field is emerging at a rapid pace, the contents of this text will help the readers understand the modern concepts and applications of the subject. Students, researchers, experts and all associated with sustainable energy and environmental conservation will benefit alike from the book.



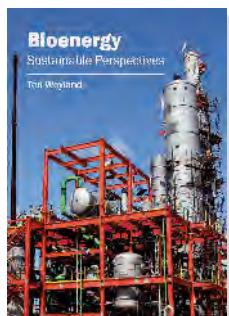


Alternative Energy

Ted Weyland	ISBN 978-1-63239-636-5	\$140.00 US	2016	Book Size 8.5"x11"	221pp. Colored	Hardback
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Bioenergy: Processes and Technologies

Bioenergy is derived from different biological resources that are renewable in nature. These are obtained from agricultural byproducts such as wood waste, straw, wood, sugarcane, etc. that need further processing to be converted into a biofuel. The principle of bioenergy lies in the utilization of solar energy trapped in these sources. It has huge potential to reduce the carbon footprint. Although there has been a continuous evolution in technologies required for conversion of biomass into bioenergy, still there is an enormous requirement for further innovation to produce cleaner fuels. This book covers some significant topics such as bioenergy processing technologies, sustainable biorefinery systems, novel breeding and cropping technologies, production and development of energy crops, etc. This book unravels the recent studies in this field. The diverse aspects of bioenergy along with technological progress that have future implications are glanced at in this book. It will help the readers in keeping pace with the rapid changes in this area.

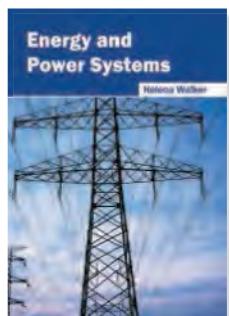


Alternative Energy

Ted Weyland	ISBN 978-1-63239-633-4	\$132.00 US	2016	Book Size 8.5"x11"	209pp. Colored	Hardback
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Bioenergy: Sustainable Perspectives

Bioenergy is the energy derived from any component or material that has stored solar energy in one form or other and could be later converted into a commercial form of energy. It is derived from biomass that is formed from materials obtained from living organisms such as plant parts, animals and their byproducts. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of bioenergy. The various concepts along with technological progress that have future implications are also glanced at. The objective of this book is to give a general view of the different areas of bioenergy and its applications. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of this subject.

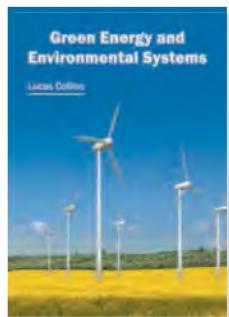


Alternative Energy

Helena Walker	ISBN 978-1-63239-685-3	\$155.00 US	2016	Book Size 8.5"x11"	291pp. Colored	Hardback
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Energy and Power Systems

Energy systems can consist of: electric, bioenergetic and thermodynamic systems whereas power systems are used for the transmission of energy. Power and energy are overlapping fields as they both focus on meeting the current energy demand of the world. The various studies that are constantly contributing towards advancing technologies and evolution of these fields are examined in detail. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. Those in search of information to further their knowledge in this area will be greatly assisted by this book.

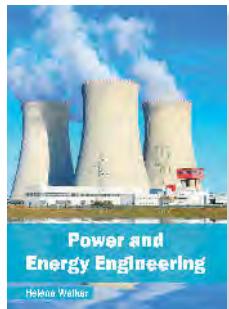


Alternative Energy

Lucas Collins	ISBN 978-1-63239-764-5	\$140.00 US	2016	Book Size 8.5"x11"	230pp. Colored	Hardback
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Green Energy and Environmental Systems

Green energy is derived from natural processes that produce small amount of pollution. Some of the resources used for this purpose are wind power, solar power, geothermal power, hydro power etc. Environmental systems include all the factors that affect the development, survival and evolution. This book unravels the recent studies in the field of green energy and environmental systems. It will also provide innovative topics for research which interested readers can take up. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts. It extensively discusses the emerging technologies that increase energy efficiency. This text will serve as a valuable source of reference for engineers, environmentalists, ecologists, conservationists, professionals and students associated with this area.

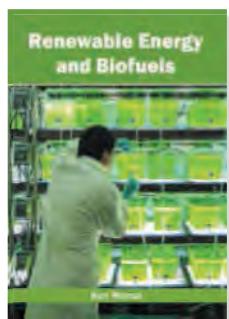


Alternative Energy

Helena Walker	ISBN 978-1-63239-649-5	\$150.00 US	2016	Book Size 8.5"x11"	262pp. Colored	Hardback
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Power and Energy Engineering

Power engineering is the subfield of energy engineering that deals with production, transmission and utilization of electrical energy. Energy engineering on the other hand is the amalgamation of mathematics, chemistry, classical and modern physics. Both of these deal with efficient utilization of energy, facility management and energy services. Some of the topics discussed in this book are power generation, power system management, power transmission and distribution, smart grid technologies, etc. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of power and energy engineering. It will serve as a valuable source of reference for graduate and post graduate students.

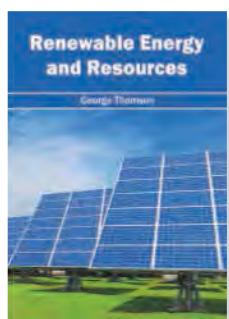


Alternative Energy

Kurt Marcel	ISBN 978-1-63239-732-4	\$132.00 US	2016	Book Size 8.5"x11"	203pp. Colored	Hardback
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Renewable Energy and Biofuels

This book discusses the fundamental as well as modern approaches and technologies related to the fields of renewable energy and biofuels. Renewable energy sources can be replenished in a given time frame and have the potential of replacing pollution causing fuels such as fossil fuels. Biofuels are derived from plants and other resources such as commercial, agricultural and domestic waste through biological processing using bacteria for anaerobic digestion. Biofuels are a commonly known form of renewable energy. The need to reduce the hazardous effect of non-renewable forms of energy has led to rapid progress and extensive research in this area. This extensive book collates researches from across the globe which explore the diverse aspects of renewable energy and biofuels. Different approaches, evaluations, methodologies and advanced studies have been included in this book. It will benefit researchers and students alike.

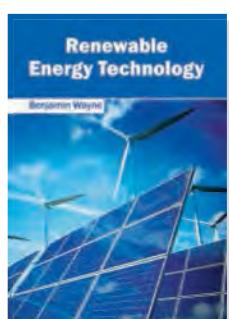


Alternative Energy

George Thomson	ISBN 978-1-63239-767-6	\$140.00 US	2016	Book Size 8.5"x11"	224pp. Colored	Hardback
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Renewable Energy and Resources

Renewable energy is derived from those resources that can be replenished in a shorter duration of time than conventional energy resources. Some of the common renewable resources are wind, sunlight, water, etc. Deployment of renewable resources for energy production may result in decelerated climatic degradation, economic benefits and energy security. This book contains some path-breaking studies in the fields of renewable energy and resources. The contents of this book will help the readers understand the modern approaches and applications of this subject. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts.

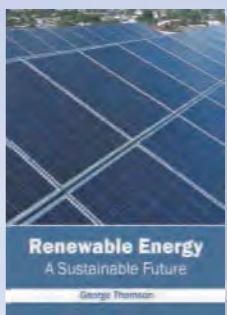


Alternative Energy

Benjamin Wayne	ISBN 978-1-63239-731-7	\$155.00 US	2016	Book Size 8.5"x11"	289pp. Colored	Hardback
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Renewable Energy Technology

Renewable energy sources are the ones that are readily available and can be replenished in shorter span of time than the non-renewable sources. Wind energy, solar energy, tidal energy, bioenergy and geothermal energy are some of the main renewable sources in use and under consideration for improved technologies. Effective utilization of these sources would greatly benefit humankind as it will reduce air pollution and global warming drastically. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail in this book. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It will help the readers in keeping pace with the rapid changes in this area of study.



Alternative Energy

George Thomson

ISBN
978-1-63239-762-1

\$132.00 US

2016

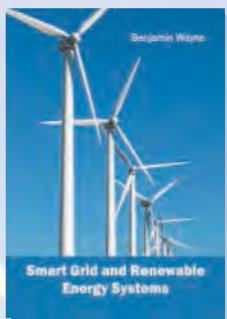
Book Size
8.5"x11"

202pp.
Colored

Hardback

Renewable Energy: A Sustainable Future

This book unfolds the innovative aspects of renewable energy which will be crucial for the progress of this field in the future. It elucidates new techniques and their applications in a multidisciplinary approach. Renewable energy is a rapidly growing area. It refers to the practice of using natural resources like water, sunlight, wind, waves, tides, geothermal heat, fossil fuels, etc. to produce energy. It is based on the fact that natural resources are harmless and thus, the energy produced by them causes least or no pollution. Therefore, the renewable resources produce sustainable energy. This book includes some of the vital pieces of work being conducted across the world, on various aspects related to this area. The topics introduced herein are of utmost significance and are bound to provide in-depth knowledge to readers about the various theories and techniques of renewable energy.



Alternative Energy

Benjamin Wayne

ISBN
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\$155.00 US

2016

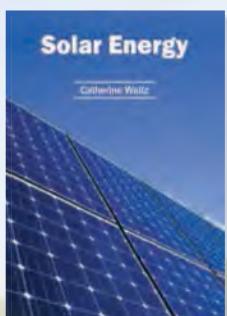
Book Size
8.5"x11"

287pp.
Colored

Hardback

Smart Grid and Renewable Energy Systems

Smart grids are electrical distribution system with embedded computer intelligence to make each and every part of electrical transmission energy efficient and strictly controlled. Renewable energy systems are large scale projects utilizing renewable energy sources such as solar energy for commercial and industrial purposes. Smart grids are essentially one of the building blocks of renewable energy infrastructure. This book details the tools and techniques used in these systems such as power system analysis and optimization, power system planning and operation, service optimization for renewable energy supply, solar and wind power generation and utilization, development of smart grid, design of sustainable product-service business models, etc. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts as easy and informative as possible, for the readers. Those in search of information to further their knowledge in the field of smart grids and renewable energy will be greatly assisted by this book.



Alternative Energy

Catherine Waltz

ISBN
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\$150.00 US

2016

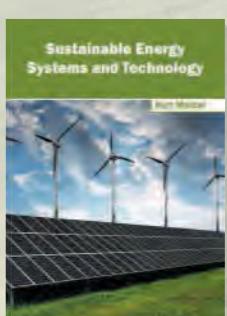
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264pp.
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Solar Energy

Solar energy is available in abundance and is also an extremely clean form of energy found on earth. The need for solar energy evolved and only grew stronger over time due to the over exploitation and rising prices of conventional sources. It is a renewable form of energy which is found freely and can be harnessed using a number of technologies such as solar thermal energy, solar heating, photovoltaic cells, solar architecture and artificial photosynthesis. This book unfolds the innovative aspects in the field of solar energy which will be crucial for the progress of this field in future. It also includes a detailed explanation of the various concepts and applications of this discipline. For all readers who are interested in this area, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding.



Alternative Energy

Kurt Marcel

ISBN
978-1-63239-763-8

\$140.00 US

2016

Book Size
8.5"x11"

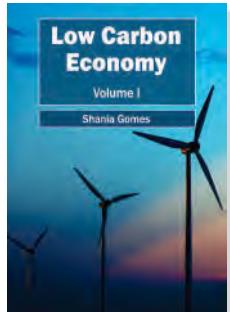
221pp.
Colored

Hardback

Sustainable Energy Systems and Technology

This book provides comprehensive insights into the field of sustainable energy systems and technology. It elucidates new techniques and their applications in a multidisciplinary approach. Sustainable energy refers to the form of energy which can be used without causing harm to nature. The objective of sustainable energy systems is to find efficient ways to use resources so that they fulfill the need of the present generation while being available for the future as well. It aims to protect environmental and natural resources. The different types of sustainable energies currently available are solar energy, hydropower, biofuels, green power, etc. From theories to research to practical applications, case studies related to all contemporary topics of relevance to sustainable energy have been included in this book. The objective of this text is to provide a comprehensive overview of the different areas of this field along with technological progress that has future implications. It will serve as a valuable source of reference for engineers, environmentalists, ecologists, researchers, students and for anyone who wants to delve deeper into the study of sustainable energy.

Energy



Shania Gomes

ISBN
978-1-63239-453-8

\$150.00 US

2015

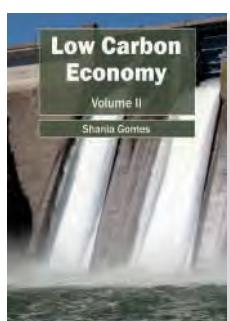
Book Size
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223pp.
Colored

Hardback

Low Carbon Economy: Volume I

The concept of Low Carbon Economy is relatively new and research in this area is gradually emerging. The recent climatic changes and increase in the carbon emission has drawn focus to this area of study. This book includes all the recent studies from all over the world, in the field of Low Carbon Economy. It aims to provide the readers with the emerging concepts and researches across the globe.



Shania Gomes

ISBN
978-1-63239-454-5

\$150.00 US

2015

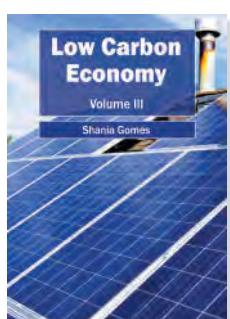
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Low Carbon Economy: Volume II

The concept of Low Carbon Economy is relatively new and research in this area is gradually emerging. The recent climatic changes and increase in the carbon emission has drawn focus to this area of study. This book includes all the recent studies from all over the world, in the field of Low Carbon Economy. It aims to provide the readers with the emerging concepts and researches across the globe.



Shania Gomes

ISBN
978-1-63239-455-2

\$150.00 US

2015

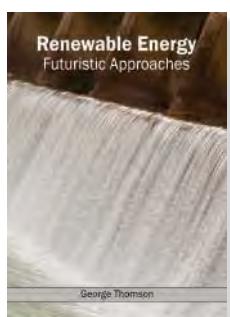
Book Size
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Low Carbon Economy: Volume III

The concept of Low Carbon Economy is relatively new and research in this area is gradually emerging. The recent climatic changes and increase in the carbon emission has drawn focus to this area of study. This book includes all the recent studies from all over the world, in the field of Low Carbon Economy. It aims to provide the readers with the emerging concepts and researches across the globe.



George Thomson

ISBN
978-1-63239-549-8

\$150.00 US

2015

Book Size
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213pp.
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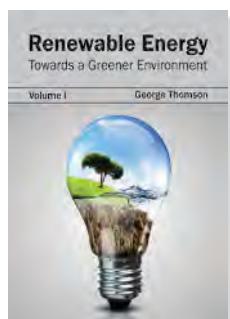
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Renewable Energy: Futuristic Approaches

Renewable energy is an important and fundamental step towards sustainable energy by optimizing the utilization of renewable energy sources, such as hydroelectricity, solar energy, wind energy, wave power, geothermal energy and tidal power. Renewable energy is an area of concern in our daily life, and also a very important topic for scientific researches. Endless number of researches and studies are going on day-in and day-out on renewable energy. This book is useful for scientists, researchers, students and anyone else willing to delve deeper into the field of renewable energy.

Energy

Energy



George Thomson

ISBN
978-1-63239-550-4

\$150.00 US

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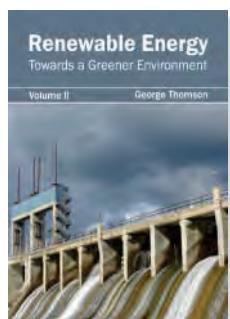
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Renewable Energy: Towards a Greener Environment Volume I

This book provides insight on the constantly evolving and demanding field of renewable energy. Energy resources are fast drying up and added to this is the problem of pollution. This book also takes a hard look at the reforms needed to make renewable energy resources our primary energy source. The future of an industry and civilization with renewable energy as its foundation is discussed here and will be helpful to those looking to research or learn about this field.



George Thomson

ISBN
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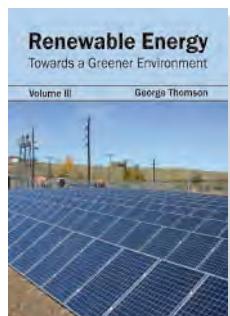
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Renewable Energy: Towards a Greener Environment Volume II

This book provides insight on the constantly evolving and demanding field of renewable energy. Energy resources are fast drying up and added to this is the problem of pollution. This book also takes a hard look at the reforms needed to make renewable energy resources our primary energy source. The future of an industry and civilization with renewable energy as its foundation is discussed here and will be helpful to those looking to research or learn about this field.



George Thomson

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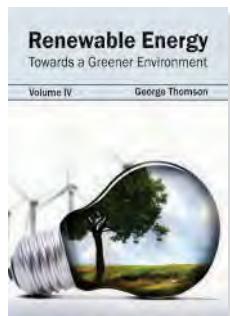
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Renewable Energy: Towards a Greener Environment Volume III

This book provides insight on the constantly evolving and demanding field of renewable energy. Energy resources are fast drying up and added to this is the problem of pollution. This book also takes a hard look at the reforms needed to make renewable energy resources our primary energy source. The future of an industry and civilization with renewable energy as its foundation is discussed here and will be helpful to those looking to research or learn about this field.



George Thomson

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978-1-63239-553-5

\$150.00 US

2015

Book Size
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199pp.
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Renewable Energy: Towards a Greener Environment Volume IV

This book provides insight on the constantly evolving and demanding field of renewable energy. Energy resources are fast drying up and added to this is the problem of pollution. This book also takes a hard look at the reforms needed to make renewable energy resources our primary energy source. The future of an industry and civilization with renewable energy as its foundation is discussed here and will be helpful to those looking to research or learn about this field.

Encyclopedia of Alternative and Renewable Energy: Trends and Applications of Renewable Energy

This book elaborately discusses the various trends as well as applications of renewable energy. Rise in electricity demand and environmental issues have led to the rapid development of energy production from renewable resources. In the long run, application of renewable energy sources (RES) can assure ecologically sustainable energy supply. This book presents recent advancements and developments in renewable energy resources distributed over numerous topics. It can be a source of information and basis for discussion for readers from diverse backgrounds. The book includes contributions of renowned experts, scientists and researchers in this field and is aimed towards providing significant information about renewable energy sources and their applications.

ISBN: 978-1-63239-175-9

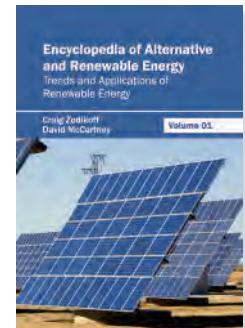
\$120.00 US

Year 2015

Book Size: 6"x9"

262pp./Colored

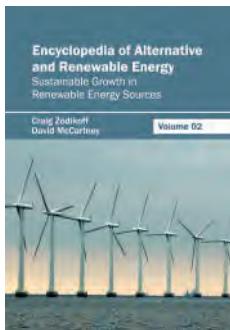
Hardback



Volume 1

Craig Zodikoff

David McCartney



ISBN: 978-1-63239-176-6

\$140.00 US

Year 2015

Book Size: 6"x9"

350pp./Colored

Hardback

Volume 2

Craig Zodikoff

David McCartney

Encyclopedia of Alternative and Renewable Energy: Sustainable Growth in Renewable Energy Sources

A renewable energy source is described as a naturally occurring inexhaustible source of energy. Worldwide debate on environmental issues and energy crisis has forced us to reduce greenhouse emissions and increase the usage of renewable energy sources as a solution to provide a better environment. This book discusses issues regarding sustainable growth and various applications of renewable energy sources. It provides a variety of information, such as, the policies which focus on the advancement of sustainable development and implementation aspects of renewable energy sources.

ISBN: 978-1-63239-177-3

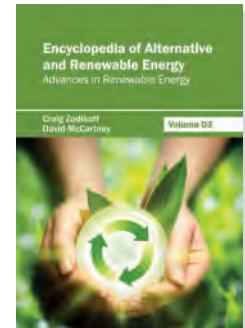
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Hardback



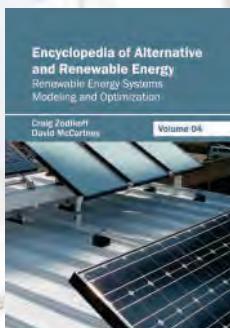
Volume 3

Craig Zodikoff

David McCartney

Encyclopedia of Alternative and Renewable Energy: Advances in Renewable Energy

The novel advances and developments in the field of renewable energy are highlighted in this book. Renewable energy is that energy which exists naturally and covers various sources and techniques at various stages and also, is theoretically limitless. To cater to the rise in energy demands across the world, renewable energy sources like those that are generated from sun or wind are the most easily available and attainable solutions. Advanced and environment friendly techniques are able to administer various social and environmental benefits like employment opportunities and a decent environment. Techniques of renewable energy contribute significantly towards world energy security, lowering dependence on fossil fuels and provide various opportunities to mitigate greenhouse gases. Lately, countries have realized that renewable energy and its sector plays a crucial role in order to achieve greener economies. This book covers various developments made in the field of renewable energy.



ISBN: 978-1-63239-178-0

\$140.00 US

Year 2015

Book Size: 6"x9"

308pp./Colored

Hardback

Volume 4

Craig Zodikoff

David McCartney

Encyclopedia of Alternative and Renewable Energy: Renewable Energy Systems Modeling and Optimization

The need of the hour is a global shift to alternative clean energy. This book encompasses wind energy, biofuels, solar energy, hybrid systems, energy management and efficacy, enhancement of renewable energy systems, etc. It also presents the technical and physical principles of better methods of using renewable energies. Important data and parameter sets are provided in this book for bigger possibilities of usage of renewable energies which allows an economic and environmental evaluation. Such an examination allows us to judge the boundaries and chances of the several options utilizing renewable energy sources. The aim of this book is to present useful insights into the modeling and improvement of distinct renewable systems and serve as a useful guide for students, researchers as well as people engaged in the field of renewable energy systems.

Encyclopedia of Alternative and Renewable Energy: Essential Topics in Sustainable Energy

All the essential and updated topics regarding sustainable energy are elucidated in this book. It covers some specific topics like district heating, photovoltaics, bioenergy, wind energy, industrial energy auditing and indoor air quality. The comprehensive theme is improving sustainability where adequate energy utilization, integration of renewable energy sources and technological improvements are highlighted.

ISBN: 978-1-63239-179-7

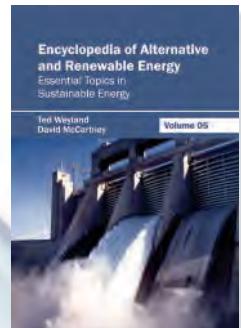
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176pp./Colored

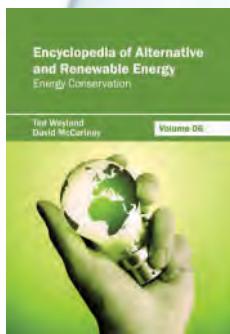
Hardback



Volume 5

Ted Weyland

David McCartney



ISBN: 978-1-63239-180-3

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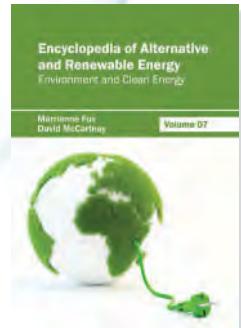
Volume 6

Ted Weyland

David McCartney

Encyclopedia of Alternative and Renewable Energy: Energy Conservation

This comprehensive book consists of research-focused information in respect to energy conservation for understanding of energy fundamentals, design and applications. It encompasses topics of fundamental knowledge in energy conservation and its applications in some industries. This book is a compilation of coherent research analysis conducted by experts in the field of energy from all over the world. The topics covered in the book are energy basics from cosmic radiation, tidal waves and dams. It analyzes the potential of utilizing energy from sustainable resources and how energy consumption may be reduced using various new technologies. This book discusses space energy, barotropic and baroclinic tidal energy, understanding energy conservation in biological context, Earth shelters, hydro power, biofuel from groundnut oil and low energy consumption in industrial production. It targets students, educators, researchers, scientists, engineers and energy practitioners.



ISBN: 978-1-63239-181-0

\$75.00 US

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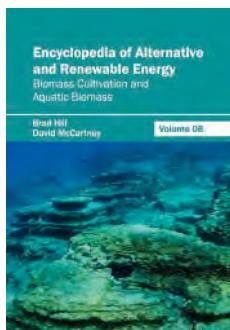
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Volume 7

Marrianne Fox

David McCartney



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Volume 8

Brad Hill

David McCartney

Encyclopedia of Alternative and Renewable Energy: Biomass Cultivation and Aquatic Biomass

Research in the field of biomass and related disciplines has increased with time. Awareness regarding pros and cons of biomass, sustainable use of resources and biomass sources has brought in the concept of biorefineries. This is evident from growth in biomass research and increasing attention towards biofuels. This book covers various disciplines of biomass further expanding on cultivation methods for energy, the feedstock crops and microbial biomass production.

Encyclopedia of Alternative and Renewable Energy: Biomass Utilization and Bioreactors

Research in the field of biomass and related disciplines has increased with time. Awareness regarding pros and cons of biomass, sustainable use of resources and biomass sources has brought in the concept of biorefineries. This is evident from growth in biomass research and increasing attention towards biofuels. This book covers various disciplines of biomass and bio-reactors dealing with various aspects of bio-digestion and overall bio-reactor processes.

ISBN: 978-1-63239-183-4

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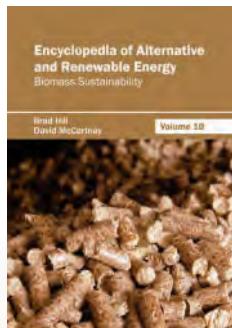
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Volume 9

Brad Hill

David McCartney



ISBN: 978-1-63239-184-1

\$140.00 US

Year 2015

Book Size: 6"x9"

338pp./Colored

Hardback

Volume 10

Encyclopedia of Alternative and Renewable Energy: Biomass Sustainability

Research in the field of biomass and related disciplines has increased with time. Awareness regarding pros and cons of biomass, sustainable use of resources and biomass sources has brought in the concept of biorefineries. This is evident from growth in biomass research and increasing attention towards biofuels. This book covers various disciplines of biomass under separate themes such as biomass sustainability & biomass systems and biomass for energy.

Brad Hill

David McCartney

Encyclopedia of Alternative and Renewable Energy: Biomass Processing and Production

Research in the field of biomass and related disciplines has increased with time. Awareness regarding pros and cons of biomass, sustainable use of resources and biomass sources has brought in the concept of biorefineries. This is evident from growth in biomass research and increasing attention towards biofuels. This book covers various disciplines of biomass under separate themes namely, biomass processing and biomass production.

ISBN: 978-1-63239-185-8

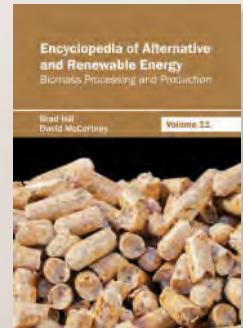
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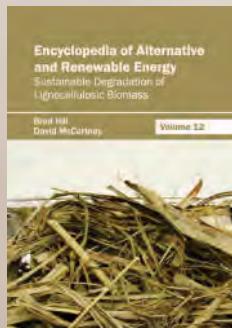
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Volume 11

Brad Hill

David McCartney



ISBN: 978-1-63239-186-5

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283pp./Colored

Hardback

Volume 12

Encyclopedia of Alternative and Renewable Energy: Sustainable Degradation of Lignocellulosic Biomass

An elucidative account based on the sustainable degradation of lignocellulosic biomass has been described in this book. It covers important aspects of sustainable degradation of lignocellulosic biomass which plays a crucial role in the economic production of numerous value-added products and biofuels which are safe to the environment. Enzymatic hydrolysis process and various pretreatment methods along with the depiction of cell wall components have been elucidated broadly. This book provides in-depth analysis regarding the enhancement in methodologies for the biomass pretreatment, the analytical procedures for biomass characterization, hemicellulose and cellulose breakdown into fermentable sugars and bioconversion of cellulosics into biofuels. Mechanistic analysis of biomass pretreatment and enzymatic hydrolysis has also been elucidated, focusing on the key factors responsible for these processes at industrial scale.

Brad Hill

David McCartney

Encyclopedia of Alternative and Renewable Energy: Advances in Biofuels

The various developments in biofuels are elucidated in this descriptive book. The book offers a comprehensive outlook on various social, economic, environmental and sustainable issues related to biofuel usage. Written by experts in the field of biofuels, this book will be a valuable read for students, researchers, scientists and technologists involved in various fields of application of biofuels.

ISBN: 978-1-63239-187-2

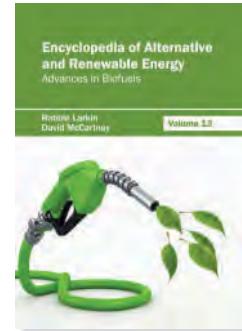
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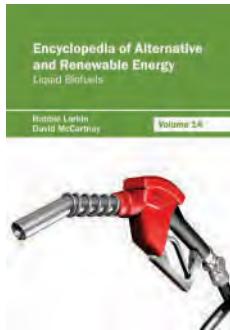
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Volume 13

Robbie Larkin

David McCartney



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Volume 14

Robbie Larkin

David McCartney

Encyclopedia of Alternative and Renewable Energy: Liquid Biofuels

This book focuses on liquid biofuels. It emphasizes on the recent advances in the production of liquid and gaseous biofuels that will be of interest to the chemical scientists and technologists. Production of cellulosic ethanol, use of ethanol and methanol in Otto engines, Thermal conversion and upgrading techniques are discussed in detail.

ISBN: 978-1-63239-189-6

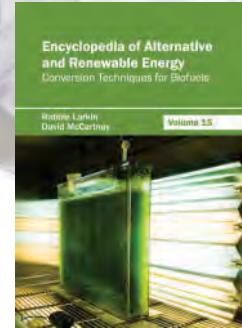
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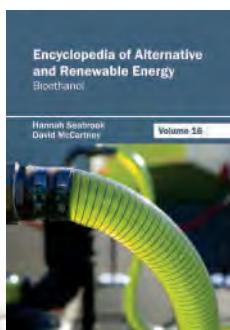
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Volume 15

Robbie Larkin

David McCartney



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Volume 16

Hannah Seabrook

David McCartney

Encyclopedia of Alternative and Renewable Energy: Bioethanol

Earth's climate is undergoing many changes. This book discusses the importance of alternative and renewable energy. Recent researches have shown the impact of human action on the climate of the planet. Consequences of this include higher temperatures and escalation of extreme weather events such as hurricanes. This situation opens up more than a few possibilities for what is now called "green" or low carbon economy. This means creating new businesses and industries geared to develop products and services with lower utilization of natural resources and lesser greenhouse gases emission. Within this form of business, biofuels are extremely significant and the primary focus of this book. It deals with various topics like first generation ethanol formation from starch and sugar raw materials, developing efficient techniques for producing second-generation ethanol from diverse types of lignocellulosic materials and the diverse uses for ethanol. This book presents some useful information regarding this field for its readers.

Encyclopedia of Alternative and Renewable Energy:

New Frontiers in Wind Power

New frontiers in wind power are described in this comprehensive book. In present times, wind energy industry is at a crucial turning point. Global economic inconsistency has threatened or eradicated several financial incentives that have been crucial to the development of specific markets. Now more than ever, this important element of the world energy mosaic will need creative research and strategic collaborations to help the industry as it moves forward. This book includes topics of importance for the effective operation of modern commercial farms and features advanced research that will allow next-generation wind energy technologies. The book majorly discusses Inflow and Wake Influences on Turbine Performance, Turbine Structural Response, and Power Conversion, Control and Integration. The book also introduces the readers to important approaches and the comprehensive subtopics like wave dynamics, examination of intricate turbine blades, and power electronics in miniature wind turbine systems.

ISBN: 978-1-63239-191-9

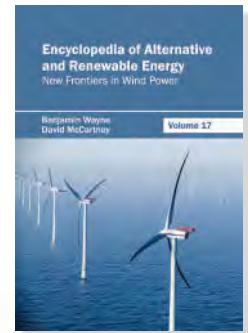
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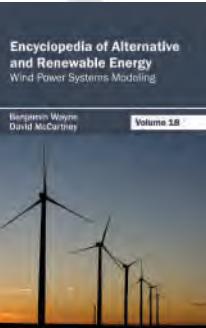
Hardback



Volume 17

Benjamin Wayne

David McCartney



ISBN: 978-1-63239-192-6

\$110.00 US

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Book Size: 6"x9"

210pp./Colored

Hardback

Volume 18

Benjamin Wayne

David McCartney

Encyclopedia of Alternative and Renewable Energy:

Wind Power Systems Modeling

This book encompasses the latest development and advancement of the wind energy conversion system. It consists of information contributed by renowned researchers from across the globe associated with the field of wind energy. The book highlights grid integration issues, dynamic and transient stability studies, and contemporary control theories applied in wind energy conversion system. Various other topics like modeling and control methodologies of distinct variable speed wind generators like switched reluctance generator, doubly-fed induction generator, permanent magnet synchronous generator, including the suitable power electronic converter topologies for grid integration, are also elucidated in this all-inclusive book. Real-time control analysis of wind farm with the help of Real Time Digital Simulator (RTDS) is also illuminated, along with Fault ride through integrated power flow solutions, wireless coded deadbeat power control, street light application, direct power control, etc.

ISBN: 978-1-63239-193-3

\$120.00 US

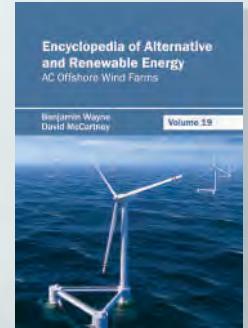
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Volume 19



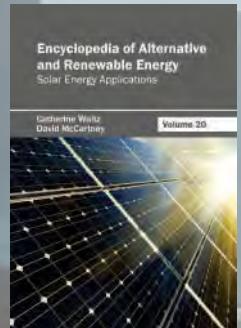
Benjamin Wayne

David McCartney

Encyclopedia of Alternative and Renewable Energy:

AC Offshore Wind Farms

The book aims at providing valuable information to the readers regarding AC offshore wind farms. It covers vital aspects of offshore wind farm's energy transmission and grid integration infrastructure. This book presents a representative case which has been comprehensively analyzed. It has been constructed on three general features of an offshore wind farm: the rated power, the distance to shore and the average wind speed of the place. Thus, after a concise account of concepts related to wind power and several subsea cable modeling options, an offshore wind farm has been modeled and its parameters have been defined to use as a case study. The primary aspect to be determined was the management of reactive power flowing through the submarine cable. The much unwelcomed harmonic amplifications in offshore wind farms due to resonances and after this, transient over-voltage complications in electric framework have been characterized. Finally, an offshore wind farm connection infrastructure has been presented in order to meet the grid code requirements for a specific system operator, but not as a close solution, as a result of a methodology based on analysis and simulations to define the most appropriate layout depending on the size and location of each offshore wind farm.



ISBN: 978-1-63239-194-0

\$110.00 US

Year 2015

Book Size: 6"x9"

202pp./Colored

Hardback

Volume 20

Catherine Waltz

David McCartney

Encyclopedia of Alternative and Renewable Energy:

Solar Energy Applications

This book on solar energy applications presents a broad overview on various aspects and applications of this renewable source of energy. It provides evidences of high thermal efficiency of the gravitational draught using concentrated solar heating, new technologies of generating organic fuels using solar heating, new sorts of photovoltaic cells, long term application of thermal solar power plants, the efficiency of thermal storage and solar power utilization in Niger. The readers will find the accompanying illustrations and pictures as a pleasing experience which will ease the text assimilation and make it an attractive source of information.

Encyclopedia of Alternative and Renewable Energy: Solar Power

Solar power is fundamentally described as the power obtained by harnessing the energy of the sun's rays. This book presents researches conducted by prominent experts related to various topics regarding solar power. Topics ranging from new methods of analysis of solar irradiance to the techniques of production regarding photovoltaic cells are covered within the book. It also discusses biotechnology that depends on solar energy and electricity generation aboard space vehicles. This book provides a broad overview of various facets of solar power and will be helpful for readers interested in this field.

ISBN: 978-1-63239-195-7

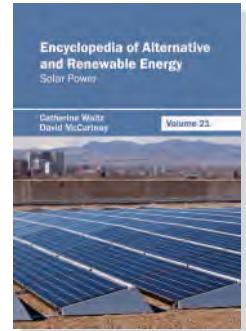
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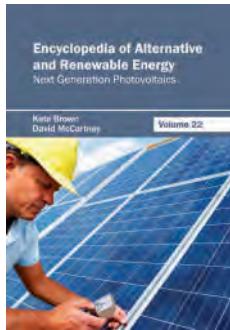
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Volume 21

Catherine Waltz

David McCartney



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244pp./Colored

Hardback

Volume 22

Kate Brown

David McCartney

Encyclopedia of Alternative and Renewable Energy: Next Generation Photovoltaics

The branch of technology associated with the production of electric current at the junction of two substances is referred to as photovoltaics. Photovoltaics have started substituting fossil fuels as a major form of energy generation. They target higher efficiencies and/or lower costs to bring PV at par with grid electricity. Third generation PV technologies may surmount the basic limitations of photon to electron conversion in single-junction tools and, hence, enhance their efficiency and cost. This book introduces prominent advances in these techniques, namely nanostructures and dye-sensitized cells. Some of the significant issues that the book discusses are life cycle assessment of OPV, multiscale modeling of heterojunctions, new materials and architectures for solar dye-sensitized cells, field performance factors and polymeric films for lowering the cost of PV, among others. Various renowned professionals have contributed to the book, compiling knowledge necessary for advancing this new generation of PV.

ISBN: 978-1-63239-197-1

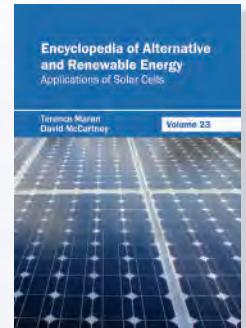
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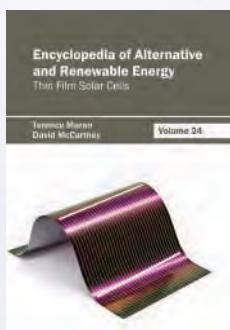
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Volume 23

Terence Maran

David McCartney



ISBN: 978-1-63239-198-8

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241pp./Colored

Hardback

Volume 24

Terence Maran

David McCartney

Encyclopedia of Alternative and Renewable Energy: Thin Film Solar Cells

This book discusses the benefits and challenges of utilizing thin film solar cells as an alternative energy source. The field of photovoltaics has seen a large-scale manufacturing of the second genesis of thin film solar modules and has succeeded in constructing powerful solar plants in many countries across the globe. Thin film techniques using direct-gap semiconductors such as CIGS and CdTe pose minimum manufacturing costs and are now increasing in popularity amongst industries. This has led to an increase in the manufacturability of thin film solar modules as compared to wafer or ribbon Si modules. Thin films like CIGS and CdTe will soon take over wafer-based silicon solar cells as the superior photovoltaic technology. This book elucidates the scientific and technological difficulties of increasing the photoelectric efficiency of thin film solar cells. It covers various aspects of thin film solar cells varying from photovoltaics as mainstream power engineering to low cost solar cell based on cuprous oxides to application of electron beam treatment. This book will be beneficial for readers interested in this subject.

Encyclopedia of Alternative and Renewable Energy:

Advanced Thin Film Solar Cell Techniques

This is an advanced book on thin film solar cell techniques. This technique uses direct-gap semiconductors such as CIGS and CdTe pose minimum manufacturing costs and is now increasing in popularity amongst industries. The field of photovoltaics has seen a large-scale manufacturing of the second genesis of thin film solar modules and has succeeded in constructing powerful solar plants in many countries across the globe. This has led to an increase in the manufacturability of thin film solar modules as compared to wafer or ribbon Si modules. Thin films like CIGS and CdTe will soon take over wafer-based silicon solar cells as the superior photovoltaic technology. This book elucidates the scientific and technological difficulties of increasing the photoelectric efficiency of thin film solar cells. It covers various aspects of thin film solar cells processing, modeling and sensitive issues, analysis of monograin layer solar cell etc. The book will be beneficial for readers interested in this subject.

ISBN: 978-1-63239-199-5

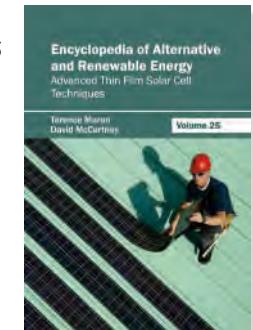
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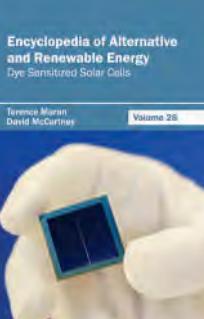
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Volume 25

Terence Maran

David McCartney



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Volume 26

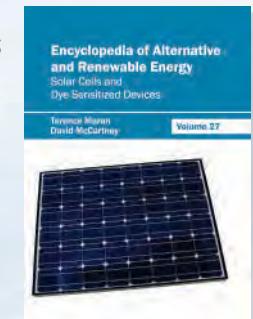
Terence Maran

David McCartney

Encyclopedia of Alternative and Renewable Energy:

Dye Sensitized Solar Cells

This book focuses on dye-sensitized solar cells (DSSCs), which are considered to be highly promising as they are made of low cost materials with simple and economical manufacturing procedures and can be molded into malleable sheets. These cells have emerged as a new class of energy conversion tools, which represent the third generation of solar technology. The method of converting solar energy into electricity in these devices is quite distinctive. The energy conversion efficiency produced by the DSSCs is low, but, it has upgraded quickly in the last years. It is assumed that the DSSCs will take an admirable place in the large scale production for the future. This book covers various aspects related to DSSCs and examines investigations of dyes for dye sensitized solar cells: Ruthenium-Complex, Metal-Free, Metal-Complex Porphyrins and Natural Dyes, and also discusses its future possibilities in fabrication, doping and characterization of polyaniline and metal oxides.



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Volume 27

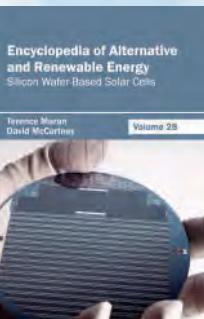
Terence Maran

David McCartney

Encyclopedia of Alternative and Renewable Energy:

Solar Cells and Dye Sensitized Devices

The book focuses on dye-sensitized solar cells (DSSCs), which are considered to be highly efficient as they are made of low cost materials with simple and economical manufacturing procedures and can be molded into malleable sheets. These cells have emerged as a new class of energy conversion tools, which represent the third generation of solar technology. The method of converting solar energy into electricity in these devices is quite distinctive. The energy conversion efficiency produced by the DSSCs is low, but, it has upgraded quickly in the last years. It is assumed that the DSSCs will take an admirable place in the large scale production for the future. This book covers various aspects related to DSSCs such as photon management strategies, metal substrates, carbon nanostructures as low cost and DSSCs as an alternative approach.



ISBN: 978-1-63239-202-2

\$150.00 US

Year 2015

Book Size: 6"x9"

376pp./Colored

Hardback

Volume 28

Terence Maran

David McCartney

Encyclopedia of Alternative and Renewable Energy:

Silicon Wafer-Based Solar Cells

Solar cell is a device that converts solar energy into electrical energy. This book focuses on solar cells based on silicon wafers which is the major substance used in today's photovoltaics. It presents latest results of researches aimed at increasing efficiency, lowering consumption of materials and decreasing cost of wafer-based silicon solar cells, as well as modern means of research and testing of the devices. Light trapping arrangement in c-Si and mc-Si solar cells, design criteria for spacecraft solar arrays and solar-energy conversion as a function of the geometric-concentration factor are some issues discussed within the book. It also elucidates topics such as LBIC method for characterization of solar cells, non-idealities in the I-V characteristic of the PV generators, a new model for extracting the physical parameters of solar cells, among others.

Encyclopedia of Alternative and Renewable Energy: Novel Aspects of Solar Cells

This book covers topics related to photovoltaic generations, its unique scientific ideas and technical solutions. Issues related to the capability of solar cells and the hydrogen productions in photoelectrochemical solar cells have also been discussed. Usage of advanced materials, like the oxide of copper as an active substance for solar cells, InP in solar cells with MIS arrangement, AlSb for use as an absorber layer, among others, have been discussed. Furthermore, other significant topics such as the analysis of both the status and prospects of organic photovoltaics such as polymer/fullerene solar cells, poly (p-phenylene-vinylene) derivatives, etc. have also been included.

ISBN: 978-1-63239-203-9

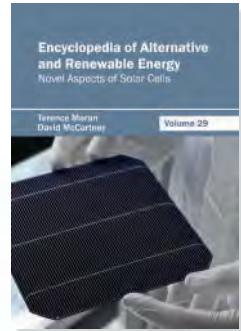
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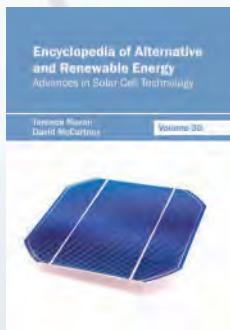
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Volume 29

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David McCartney



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\$120.00 US

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Book Size: 6"x9"

294pp./Colored

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Volume 30

Terence Maran

David McCartney

Encyclopedia of Alternative and Renewable Energy: Advances in Solar Cell Technology

This book examines topics related to photovoltaic generations, its unique scientific ideas and advances made in the solar cell technology. Extensive attention has been given to the significant effects in solar cells, both in common and on particular cases such as those of quantum dots, super-lattices, etc. Usage of advanced materials, like the oxide of copper as an active substance for solar cells, InP in solar cells with MIS arrangement, AlSb for use as an absorber layer, among others, have been included. Furthermore, other significant topics such as the analysis of both the status and prospects of organic photovoltaics such as photovoltaic textiles, photovoltaic fibers, etc. have also been discussed.

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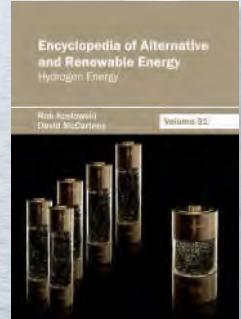
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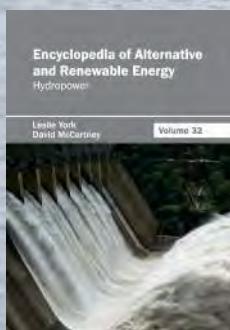
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Volume 31

Rob Koslowski

David McCartney



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Volume 32

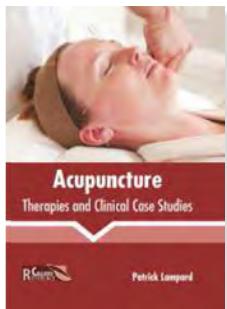
Leslie York

David McCartney

Encyclopedia of Alternative and Renewable Energy: Hydropower

Hydropower is defined as the power harnessed from the energy of running or falling water. It is a well-known fact that hydroelectric energy is the world's most common and vastly utilized inexhaustible energy form, and that it comprises of 16% of the global electricity consumption. This book basically talks about the theoretical and exercised solutions arrived at by the authors after years of hard work in experiments, considering the issues in the structure and functioning of a considerable number of hydroelectric power plants in different countries. The book has been edited with a view that it can serve as a textbook to students learning hydro power plants. The topics of the book are varied including the basic elements of hydro power plants, from the upstream end, with the basin for water incorporation, to the downstream end of the water flow outlet.

Complementary and Alternative Medicine

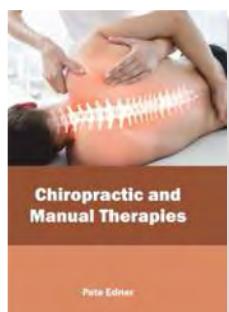


Complementary and Alternative Medicine

Patrick Lampard | ISBN 978-1-63239-892-5 | \$140.00 US | 2017 | Book Size 7.75"×10.5" | 238pp. Colored | Hardback

Acupuncture: Therapies and Clinical Case Studies

Acupuncture is a medical procedure that primarily focuses on pain relief. The treatment involves undergoing a course of needles that are inserted to specific points. This therapy originated in traditional Chinese medicine. This book on acupuncture deals with the various therapies, ancient and modern, that have become popular among practitioners. Different remedies have different effects on the muscles according to the acuteness of the pain and the general condition of the patient have also been discussed. Case studies that reflect the varied ways in which acupuncture can be applied are elucidated in this book. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

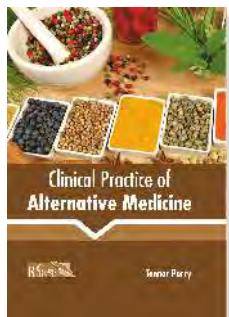


Complementary and Alternative Medicine

Pete Edner | ISBN 978-1-63239-884-0 | \$140.00 US | 2017 | Book Size 7"×10" | 237pp. Colored | Hardback

Chiropractic and Manual Therapies

Chiropractic and manual therapies are medical treatment that diagnoses mechanical diseases related to the musculoskeletal system. Manual therapies of medicine have managed to treat problems that general medicine has found difficult to treat. This book attempts to understand the multiple branches that fall under the discipline of manual therapies and chiropractic. It includes some of the vital pieces of work being conducted across the globe, on various topics related to this field. This book will serve as a reference to a broad spectrum of readers. It is appropriate for students seeking detailed information in the area as well as for experts.

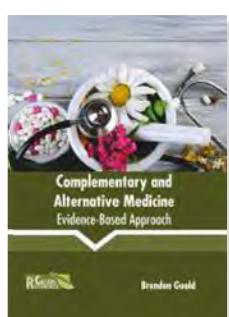


Complementary and Alternative Medicine

Tanner Perry | ISBN 978-1-63239-882-6 | \$132.00 US | 2017 | Book Size 7.75"×10.5" | 222pp. Colored | Hardback

Clinical Practice of Alternative Medicine

Alternative practice is defined as a set of medical treatments and therapies that provide healing and well-being. This book on clinical practice of alternative medicine deals with interventional and physiotherapeutic techniques of this field. Alternative medicine diagnoses disease through an assessment of various bodily processes and psycho-physiological conditions. Interventional ability of alternative medicine is one of the key areas where considerable progress has been made. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of alternative medicine. Students, researchers, experts and all associated with this field will benefit alike from this book.

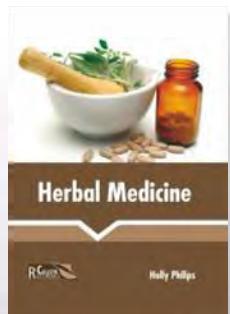


Complementary and Alternative Medicine

Brendon Gould | ISBN 978-1-63239-883-3 | \$132.00 US | 2017 | Book Size 7.75"×10.5" | 223pp. Colored | Hardback

Complementary and Alternative Medicine: Evidence-Based Approach

This book on complementary and alternative medicine discusses topics related to energy harnessing and nutritional value that is related to alternative medical practices. Alternative medical diagnosis and medication consider the overall well-being and fitness of a patient while treating disease. This book discusses the fundamentals as well as modern approaches of this field. It consists of contributions made by international experts. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of alternative medicine as easy and informative as possible, for the readers.



Holly Philips

ISBN
978-1-63239-893-2

\$135.00 US

2017

Book Size
7.75"×10.5"

235pp.
Colored

Hardback

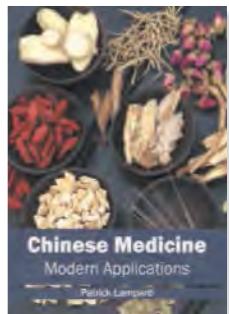
Herbal Medicine

Herbal Medicine is a form of alternative medicine that uses plants for medical treatment. Plant-derived compounds are widely recognized for their medicinal properties and are increasingly being implemented for drug development. Topics included in this book delve into effective remedies that can improve already existing products. This book covers in detail some existent theories and innovative concepts revolving around herbal medicine. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of herbal medicine as easy and informative as possible for the readers.



Complementary and Alternative Medicine

Complementary and Alternative Medicine



Patrick Lampard

ISBN
978-1-63239-638-9

\$145.00 US

2016

Book Size
8.5"x11"

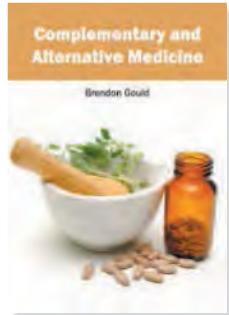
245pp.
Colored

Hardback

Chinese Medicine: Modern Applications

This book traces the progress in the field of chinese medicine and highlights the key concepts and applications related to it. Chinese medicine is an ancient science of using physical therapy like acupuncture, massage and exercise, herbal medicines like traditional plants and flowers, etc. to heal the body and soul. It runs on the concept of 'chi' and does not use modern medicines or techniques to cure deformities. The topics included in this book are of utmost significance and are bound to provide incredible insights regarding this topic. It will serve as a valuable source of reference for students or scientists, who want a detailed analysis of this field. The readers would gain knowledge that would broaden their perspective about chinese medicine.

Complementary and Alternative Medicine



Brendon Gould

ISBN
978-1-63239-677-8

\$145.00 US

2016

Book Size
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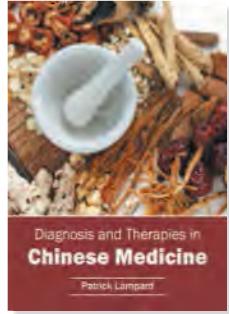
260pp.
Colored

Hardback

Complementary and Alternative Medicine

This book contains some path-breaking studies in the fields of complementary and alternative medicine. It also covers in detail some existent theories and innovative concepts revolving around these disciplines. Complementary and alternative medicines are used to accompany conventional drugs, to reduce the side-effects or speed up the recovery process. Complementary and alternative medicines include acupuncture, chiropractic medicine, energy therapy, magnetic field therapy, reiki, therapeutic touch, ayurveda, herbal medicine, etc. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within the field. This book with its detailed analyses and data will prove immensely beneficial to professionals and students involved in this area at various levels.

Complementary and Alternative Medicine



Patrick Lampard

ISBN
978-1-63239-725-6

\$155.00 US

2016

Book Size
8.5"x11"

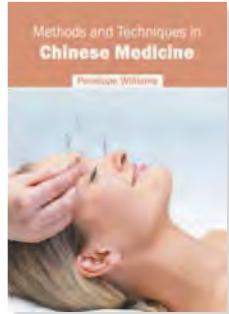
283pp.
Colored

Hardback

Diagnosis and Therapies in Chinese Medicine

Chinese Medicine is an ancient science and is still used as a common way of treating disorders. The techniques used in chinese medicine such as acupuncture, massage and exercise and the use of herbal antidotes as opposed to modern medicine, are regarded as efficient ways of treating disorders. It uses the concept of yin and yang to divide the human body and then heal them with respective techniques. This book will discuss in detail the diverse concepts of chinese medicine, its diagnostics and theoretical applications and their efficiency. For readers who are interested in this field, the case studies and analysis included in the book will serve as an excellent guide to develop a comprehensive understanding of this field.

Complementary and Alternative Medicine



Penelope Williams

ISBN
978-1-63239-738-6

\$145.00 US

2016

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8.5"x11"

251pp.
Colored

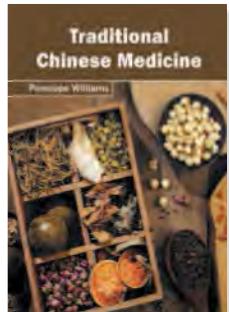
Hardback

Methods and Techniques in Chinese Medicine

This book traces the progress in the field of chinese medicine and highlights some of its key concepts and applications. It elucidates the theories and innovative techniques around prospective developments with respect to this field. Chinese medicine refers to the system of treatment which uses the traditional methods like acupuncture, massage, exercise, herbal medicine, etc. It is based on the special terms of 'qi' known as life force or energy and uses this concept to treat mind, body and spirit. This text includes topics of utmost significance, which are bound to provide incredible insights to the readers about the interesting concepts in the field of chinese medicine. It aims to present researches that have transformed this discipline and has aided its advancement. Those with an interest in this area would find this book beneficial.

Complementary and Alternative Medicine

Complementary and Alternative Medicine



Penelope Williams

ISBN
978-1-63239-735-5

\$145.00 US

2016

Book Size
8.5"x11"

246pp.
Colored

Hardback

Traditional Chinese Medicine

Traditional Chinese medicine is based on the belief that body's vital energy circulates through channels called meridians that have branches running through the body. This branch of medicine tries to cure diseases with the help of acupuncture, herbal medicine, exercise and massage. It tries to diagnose problems by tracing symptoms to patterns of an underlying discord. This book provides significant information of this discipline to help develop a good understanding of chinese medicine and related fields. The readers would gain knowledge that would broaden their perspective about this area of study. The various advancements in chinese medicine are glanced at and their applications as well as ramifications are discussed in detail. This book will serve as a resource guide for students and experts alike.

Complementary and Alternative Medicine



Brendon Gould

ISBN
978-1-63239-666-2

\$145.00 US

2016

Book Size
8.5"x11"

256pp.
Colored

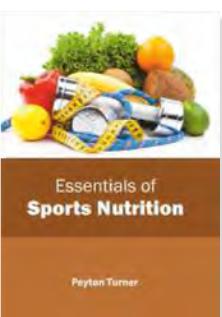
Hardback

Understanding Complementary and Alternative Medicine

Complementary and alternative medicine is a parallel field to medical science for the diagnose and treatment of an array of diseases and disorders. Some common practices under the umbrella of complementary and alternative medicine are accupuncture, homeopathy, ayurvedic medicine, chiropractic, etc. The aim of this book is to present researches that have transformed this discipline and aided its progress. Although complementary and alternative medicines lack scientific bases, large populations of people have firm belief in these forms. This book unravels the recent studies in these fields. It provides significant information of this discipline to help develop a good understanding of the latest advances within these areas. The readers would gain knowledge that would broaden their perspective about complementary and alternative medicines.



Orthopedics, Sports and Rehabilitation Medicine

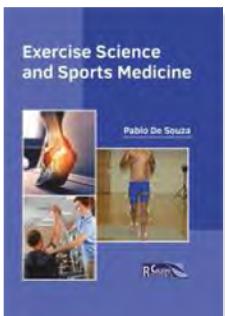


Orthopedics, Sports and Rehabilitation Medicine

Peyton Turner | ISBN 978-1-63239-897-0 | \$142.00 US | 2017 | Book Size 7"×10" | 243pp. Colored | Hardback

Essentials of Sports Nutrition

Sports nutrition refers to the study of food and nutrition in relation to sports and athletic performance. It incorporates the study of various vitamins, minerals, diets, supplements and organic substances that strengthen the body of the sports persons and enhances their performance. Sports nutrition plays a crucial role in the sports like weight lifting, bodybuilding, swimming, rowing, running, cycling, etc. This book traces the progress of this field and highlights some of its key concepts and applications. Different approaches, evaluations, methodologies and advanced studies on sports nutrition have been included in this text. Students, researchers, experts and all associated with this subject will benefit alike from the book. It is a vital tool for all researching or studying sports nutrition as it gives incredible insights into emerging trends and concepts.

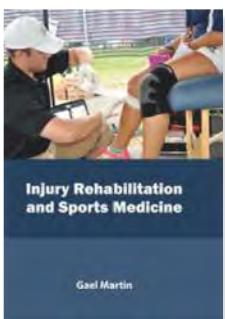


Orthopedics, Sports and Rehabilitation Medicine

Pablo De Souza | ISBN 978-1-63239-844-4 | \$150.00 US | 2017 | Book Size 7.75"×10.5" | 258pp. Colored | Hardback

Exercise Science and Sports Medicine

Exercise science and sports medicine deal with services and treatments availed by athletes who perform under high-levels of stress and intensity. This book deals with topics that are concerned with overall training, rigor and exercise practices that aim for optimum levels of health for athletes. Regular training and exercise cause tissue and nerve damage as well as nutritional drain that must be replenished through diet, medicine and physiotherapy. This book presents the complex subject of exercise science and sports medicine in the most comprehensible and easy to understand language. From theories to research and practical applications, case studies related to all contemporary topics of relevance of the field have been included in this book. Those with an interest in sports medicine field would find this book helpful. It will serve as a valuable source of reference for graduate and post graduate students.

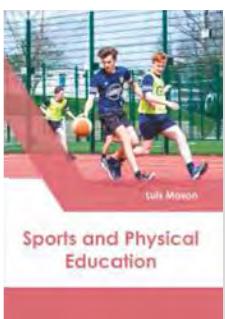


Orthopedics, Sports and Rehabilitation Medicine

Gael Martin | ISBN 978-1-63239-879-6 | \$142.00 US | 2017 | Book Size 7"×10" | 241pp. Colored | Hardback

Injury Rehabilitation and Sports Medicine

Sports injury rehabilitation is the practice of treating pain and discomfort effectively with the purpose to return to normal function. This book on injury rehabilitation and sports medicine discusses topics related to the early detection and treatment of sports injuries and the technology and treatments that are involved with the same. Research in this field deals with minor and major injuries ranging from strains and sprains to tendon and ligament tears and traumatic head injuries. Chapters in this book strive to provide knowledge for the prevention, evaluation and treatment of sports injuries. It attempts to assist those with a goal of delving into the field of sports medicine and injury rehabilitation.



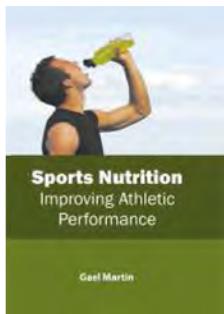
Orthopedics, Sports and Rehabilitation Medicine

Luis Mason | ISBN 978-1-63239-885-7 | \$130.00 US | 2017 | Book Size 8.5"×11" | 218pp. Colored | Hardback

Sports and Physical Education

This book on sports and physical education discusses topics related to the fitness, management and treatment of sports athletes. It discusses topics related to aerobic exercise, sports devices and biomechanical investigation of physical movement. Physical education in sports emphasizes physical therapy and rehabilitation techniques. Various rehabilitation procedures also require adequate training and physiotherapy for complete recovery. This book unfolds the innovative aspects of sports and physical education which will be crucial for the progress of this field in the future. It includes contributions of experts and scientists which will provide innovative insights into this field. This text will prove immensely beneficial to students and researchers in this field.

Orthopedics, Sports and Rehabilitation Medicine



Gael Martin

ISBN
978-1-63239-899-4

\$132.00 US

2017

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7"×10"

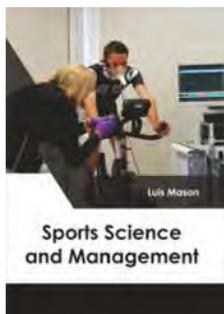
221pp.
Colored

Hardback

Orthopedics, Sports and Rehabilitation Medicine

Sports Nutrition: Improving Athletic Performance

This book unfolds the innovative aspects of sports nutrition which will be crucial for the progress of this field in the future. Sports nutrition is concerned with the study of the various characteristics of food which help athletes to grow strong and enhance their performance. It includes examining different minerals, vitamins, supplements, organic products which are used by the sports persons to strengthen their bodies and immune system. In this text, varied topics that fall under this sports nutrition are discussed in detail. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of this field. The book aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline. It is a complete source of knowledge on the present status of this important field.



Luis Mason

ISBN
978-1-63239-874-1

\$140.00 US

2017

Book Size
8.5"×11"

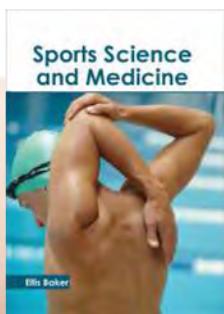
238pp.
Colored

Hardback

Orthopedics, Sports and Rehabilitation Medicine

Sports Science and Management

Sports science studies in detail the response of human body to diverse extent of physical activity. Sports management has many branches such as marketing, event management, sports information management and facility management. The sports industry is a thriving economic sector that is consumer-driven and hence, dependent on the performance of athletes and related personnel. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of sports science and management. The objective of this text is to give a general view of the different areas of this discipline. It strives to provide a fair idea about this field and to help develop a better understanding of the latest advances within sports science and management. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.



Ellis Baker

ISBN
978-1-63239-865-9

\$132.00 US

2017

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227pp.
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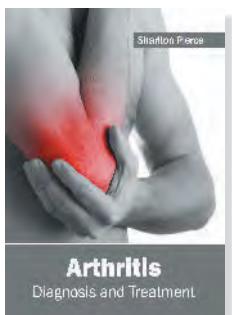
Hardback

Orthopedics, Sports and Rehabilitation Medicine

Sports Science and Medicine

Sports science and sports medicine are two interrelated disciplines which are often studied together as they are complementary to each other. This book provides comprehensive insights into the field of sports science which is studied to investigate how a healthy body works during physical activity and exercise. On the other hand sports medicine focuses on the treatment as well as prevention of injuries and trauma related to sports. The text aims to bring about a confluence of the two fields so as to provide its reader a holistic understanding of the subject area. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge. It is a vital tool for all researching and studying sports science and sports medicine.

Orthopedics, Sports and Rehabilitation Medicine



Sharlton Pierce

ISBN

978-1-63239-772-0

Orthopedics, Sports and Rehabilitation Medicine

\$132.00 US

2016

Book Size

8.5"x11"

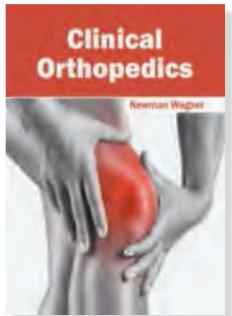
219pp.

Colored

Hardback

Arthritis: Diagnosis and Treatment

Arthritis is a disorder related to joints. The symptoms of this disease are characterized by severe pain, weight loss, tenderness, stiffness, etc. Osteoarthritis, lupus, gout, and rheumatoid arthritis are some common forms of this disease. The aim of this book is to present researches that have transformed this discipline and aided its advancement. It is a valuable compilation of topics, ranging from the basic to the most complex advancements made in development of new medications and diagnostic treatments. Orthopedics, professionals and students actively engaged in this field will find this book full of crucial and unexplored concepts.



Newman Wagner

ISBN

978-1-63239-667-9

Orthopedics, Sports and Rehabilitation Medicine

\$145.00 US

2016

Book Size

8.5"x11"

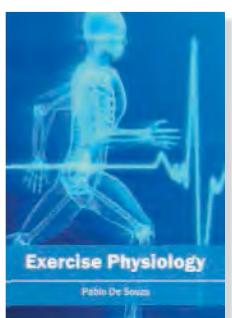
244pp.

Colored

Hardback

Clinical Orthopedics

Orthopedics is the branch of medicine that deals with diagnosis and treatment of injuries, tumors, infections, deformities and diseases related to musculoskeletal system. Considerable advancements have been made in the different clinical techniques used in this field such as arthroscopy, bone morphogenetic proteins, arthroplasty, epidemiology etc. Most of the topics discussed in this book cover advanced techniques and their applications. It contains some path-breaking studies in the area of clinical orthopedics. This book aims to equip students and experts with the advanced topics and upcoming concepts in this field. The readers would gain knowledge that would broaden their perspective about this discipline.



Pablo De Souza

ISBN

978-1-63239-629-7

Orthopedics, Sports and Rehabilitation Medicine

\$132.00 US

2016

Book Size

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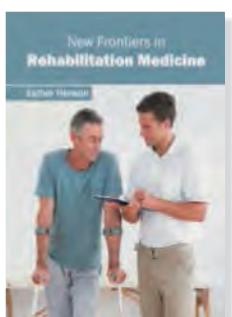
220pp.

Colored

Hardback

Exercise Physiology

This book provides its readers with an advanced understanding of exercise physiology. It studies in detail the responses of the body to exercise and its corresponding impact. Exercise acts as a physical medicine that has the ability to remediate impairments and promote mobility, function, and quality of life through physical intervention. It emphasizes the acute and chronic effects of exercise on various physiological systems in adults and the integrative nature of these physiological responses. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject. It aims to shed light on some of the unexplored aspects of exercise physiology and present the recent researches in this field.



Esther Henson

ISBN

978-1-63239-684-6

Orthopedics, Sports and Rehabilitation Medicine

\$150.00 US

2016

Book Size

8.5"x11"

262pp.

Colored

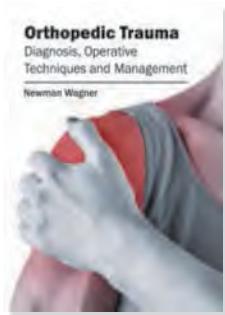
Hardback

New Frontiers in Rehabilitation Medicine

This book includes some of the vital pieces of work being conducted across the world, on various topics related to rehabilitation medicine. It explores all the important aspects of this field in the present day scenario. Rehabilitation medicine deals with restoring and enhancing the abilities and quality of life for people with physical disabilities. It includes treatment for the problems such as spinal cord injury, amputations, stroke, fibromyalgia, brain injury, etc. Extensive researches and new technologies that are required to provide human beings with a life that is not limited by physical disabilities are elaborated in this book. For all readers who are interested in this area, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding of this field. It is a vital tool for all researching and studying this field.

Orthopedics, Sports and Rehabilitation Medicine

Orthopedics, Sports and Rehabilitation Medicine



Newman Wagner

ISBN
978-1-63239-651-8

\$150.00 US

2016

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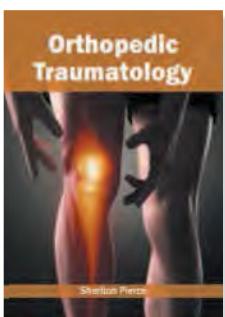
270pp.
Colored

Hardback

Orthopedic Trauma: Diagnosis, Operative Techniques and Management

This book provides comprehensive insights into the field of orthopedic trauma. It involves diagnosis and treatment of diseases related to the musculoskeletal system. Orthopedics was usually restricted to treating structural deformities but now it has forayed into wider areas such as sports injuries, degenerative diseases, infections, tumors, etc. These problems can affect the physical movement of a person and may persist for a longer period of time. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subject. It presents researches and studies performed by experts across the globe. This book will serve as a valuable source of reference to a broad spectrum of readers such as orthopedicians, surgeons, traumatologists, professionals and students.

Orthopedics, Sports and Rehabilitation Medicine



Sharlton Pierce

ISBN
978-1-63239-650-1

\$150.00 US

2016

Book Size
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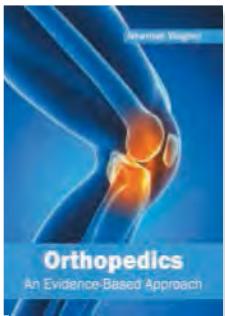
268pp.
Colored

Hardback

Orthopedic Traumatology

Orthopedic traumatology refers to the treatment of shock or trauma suffered by a person under extreme circumstances or life threatening events. It consists of two procedures first, assessment of the patient, his mental condition, shock he is enduring, and second, assessment of the wound inflicted on him, the depth, width, shape, etc. This book will provide significant information of this field to help develop a good understanding of orthopedic traumatology. It presents researches and studies performed by experts across the globe in this subject. This book attempts to assist those with a goal of delving into this area. It will prove to be a beneficial source of knowledge for students and researchers alike.

Orthopedics, Sports and Rehabilitation Medicine



Newman Wagner

ISBN
978-1-63239-727-0

\$150.00 US

2016

Book Size
8.5"x11"

266pp.
Colored

Hardback

Orthopedics: An Evidence-Based Approach

Bones are responsible for providing a firm structure and unhindered movement to human body. Red blood cells are formed in the bone marrow and bone cells also release a hormone called osteocalcin which regulates blood sugar and fat deposition. The branch of medical science that deals with the structure, functions, diagnosis and treatment of diseases related to bones is termed as orthopedics. It unravels the recent studies in the field of orthopedics. It is a resource guide for experts as well as students. The extensive content of this book provides the readers with a thorough understanding of the subject. Modern science and technology have revolutionized the field of orthopedics. This book presents researches and studies performed by experts across the globe.

Orthopedics, Sports and Rehabilitation Medicine



Sharlton Pierce

ISBN
978-1-63239-689-1

\$155.00 US

2016

Book Size
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296pp.
Colored

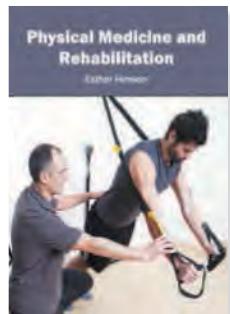
Hardback

Orthopedics: Research and Advances

Orthopedics is a part of medical science which deals with treating the problems of the musculoskeletal system which consists of skeleton, ligaments, joints, cartilage, tendons, etc. Infections, tumours, and congenital disorders are popularly treated under this branch by surgical or non-surgical ways. It uses recent techniques like radiology and x-rays to diagnose and treat the problems such as broken bones or limbs. This book elucidates new researches and advances in a multidisciplinary approach about this subject. It includes some of the vital pieces of work being conducted across the world on various topics related to this field. Those with an interest in this area will find this book very helpful. It will serve as a valuable reference guide for students and orthopedicians alike.

Orthopedics, Sports and Rehabilitation Medicine

Orthopedics, Sports and Rehabilitation Medicine



Esther Henson

ISBN
978-1-63239-656-3

\$145.00 US

2016

Book Size
8.5"x11"

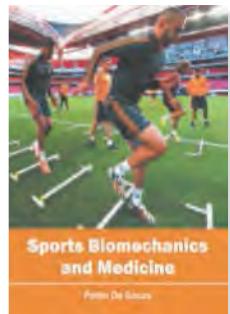
243pp.
Colored

Hardback

Physical Medicine and Rehabilitation

This book aims to understand the field of physical medicine and rehabilitation. Different approaches, evaluations, methodologies and advanced studies related to this field have been included in this book. Commonly known as physiatry, it deals with the diagnosis and treatment of physical disabilities or impairments. Physiatrists exclusively aim to heal all types of injuries related to bones, muscles and nervous system. It is an upcoming field of medical science that has undergone rapid development over the past few decades. This book elucidates new techniques and their applications. It also aims to shed light on some of the unexplored aspects of physical medicine and rehabilitation. This book aims to equip students, doctors and experts with the advanced topics and upcoming concepts in this area.

Orthopedics, Sports and Rehabilitation Medicine



Pablo De Souza

ISBN
978-1-63239-690-7

\$155.00 US

2016

Book Size
8.5"x11"

291pp.
Colored

Hardback

Sports Biomechanics and Medicine

This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the fields of sports biomechanics and medicine. Sports biomechanics is a branch of biomechanics that applies the law of mechanics, physics and principles of biology on human movement and actions especially related to sports. It understands the cause and effect relationship of the human body movement. Sports medicine on the other hand deals with curing and preventing sports injuries as quickly as possible. Both of them try to optimize the performance of an athlete by providing the required guidance, equipment and drugs. While understanding the long-term perspectives of the topics, this book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. The topics covered herein offer the readers new insights in the field of sports biomechanics. It covers theoretical and experimental studies in this field which elucidate some of the crucial and unexplored concepts. Researchers and students involved in the area of sports biomechanics will be assisted by this book.

Orthopedics, Sports and Rehabilitation Medicine



Pablo De Souza

ISBN
978-1-63239-698-3

\$155.00 US

2016

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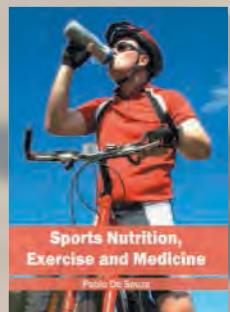
296pp.
Colored

Hardback

Sports Medicine

This book provides comprehensive insights into the field of sports medicine. Sports medicine is a part of medical science that deals with treating and preventing injuries incurred while playing sports and the general physical fitness of the player. Every team or individual sports person has his or her own sport medicine specialist. These doctors treat injuries like ankle sprains, joint dislocations, tendonitis and osteoarthritis, etc. This field is rapidly progressing and therefore, this book has been compiled in such a manner that it provides the readers with all the latest theories and advanced application in this area. It includes contributions of experts and scientists to help readers understand the subject better. Those with an eye for detail will find this text a highly beneficial source of knowledge.

Orthopedics, Sports and Rehabilitation Medicine



Pablo De Souza

ISBN
978-1-63239-699-0

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2016

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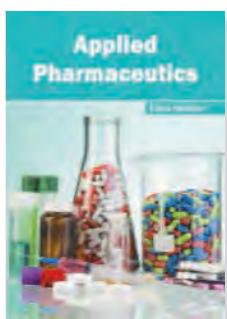
293pp.
Colored

Hardback

Sports Nutrition, Exercise and Medicine

Sports Nutrition, Exercise and Medicine are rapidly growing fields of study. Nutrition and exercise play a significant role in sports. They directly affect the performance of athletes; thereby making it necessary for them to follow a healthy diet and exercise regularly. This book covers in detail some existent theories and innovative concepts revolving around these fields. It strives to provide a fair idea about these disciplines and to help develop a better understanding of this field. As these branches of study are constantly evolving, this book will help the readers to gain thorough knowledge about the concepts of sports nutrition, exercise and medicine.

Pharmaceutical Sciences

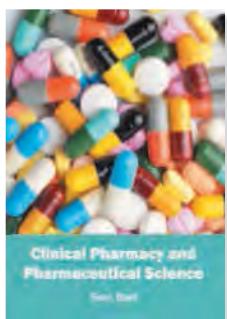


Pharmaceutical Sciences

Erica Helmer | ISBN 978-1-63239-748-5 | \$145.00 US | 2016 | Book Size 8.5"x11" | 251pp. Colored | Hardback

Applied Pharmaceutics

This book outlines the processes and applications of applied pharmaceutics in detail. It will unravel the recent studies in this field. The field of pharmaceutics refers to the practice of forming new medicines from existing drugs, which are useful, harmless and efficient for the human body. Some of the key components of this field include molecular drug design, novel drug delivery, conventional dosage forms, nanotechnology, etc. This book includes topics that are of utmost significance to this field and are bound to provide incredible insights to the readers. It is a collective contribution of a renowned group of international experts. Students, researchers, pharmacists, doctors, and all associated with the discipline of pharmaceutics will find this book full of crucial and unexplored concepts.

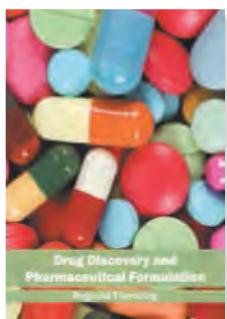


Pharmaceutical Sciences

Sean Boyd | ISBN 978-1-63239-716-4 | \$155.00 US | 2016 | Book Size 8.5"x11" | 298pp. Colored | Hardback

Clinical Pharmacy and Pharmaceutical Science

Clinical Pharmacy refers to a branch of medicinal science which works to provide better and optimum use of drugs to ensure health, wellness of the patients and also works towards disease prevention. Clinical Pharmacy depends on pharmaceutical science for the formation of drugs which is done by using the principles of chemistry, biology, statistics, mathematics, physics, etc. This book will trace the progresses made in this field and highlight some of its key concepts and applications in a multidisciplinary approach. It will elucidate the new concepts and prospective developments made in clinical pharmacy. Those with an interest in this topic will find this book extremely helpful as it provides researches from across the globe. Coherent flow of topics, reader-friendly language and extensive use of examples make this book an invaluable source of knowledge.

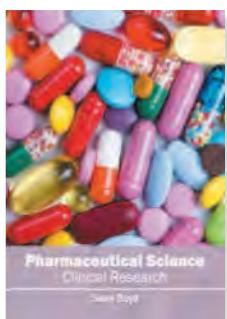


Pharmaceutical Sciences

Reginald Thornburg | ISBN 978-1-63239-743-0 | \$145.00 US | 2016 | Book Size 8.5"x11" | 241pp. Colored | Hardback

Drug Discovery and Pharmaceutical Formulation

This book contains some path-breaking studies related to drug discovery and pharmaceutical formulation. It unravels the recent discoveries related to this field. Pharmaceutical formulation refers to the science of using present drugs in order to formulate new improved medications. The aim of this field is to discover drugs which are stable, harmless, and adequate for the patient and do not cause any side effects. It incorporates formulation of different forms of drugs like tablets, capsules, lyophilized and liquid, etc. This book will provide interesting topics for research which students, doctors, practitioners and others related to this field can take up. Some of the diverse aspects covered herein address the varied branches that fall under this category. It is an essential guide for both academicians and those who wish to pursue this discipline further.



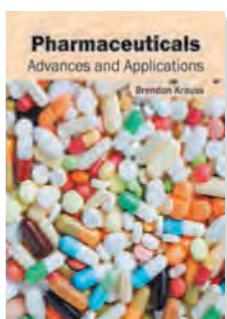
Pharmaceutical Sciences

Sean Boyd | ISBN 978-1-63239-675-4 | \$155.00 US | 2016 | Book Size 8.5"x11" | 286pp. Colored | Hardback

Pharmaceutical Science: Clinical Research

This book elucidates new techniques and applications of pharmaceutical science in a multidisciplinary approach. It discusses the fundamentals as well as modern approaches of this field. Pharmaceutical science is an interdisciplinary field that has elements of chemometrics, mathematics, epidemiology, statistics, physics, chemical engineering, chemistry and biology. It mainly deals with the composition, manufacturing, delivery, and disposal of drugs. Clinical pharmacy, compounding pharmacy, pharmaceutics, medicinal chemistry, pharmacotherapy, pharmacokinetics, clinical pharmacology, pharmacogenetics, pharmacogenomics, toxicology are some of the topics discussed in this extensive book. Such selected concepts that redefine the field of pharmaceutical science have been presented herein. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts as easy and informative as possible, for the readers.

Pharmaceutical Sciences

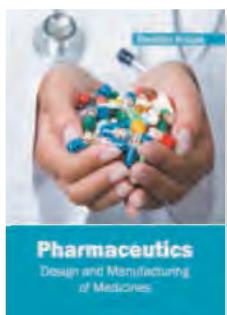


Pharmaceutical Sciences

Brendon Krauss | ISBN 978-1-63239-643-3 | \$145.00 US | 2016 | Book Size 8.5"x11" | 258pp. Colored | Hardback

Pharmaceuticals: Advances and Applications

This book studies, analyses and upholds the pillars of pharmaceuticals and its utmost significance in modern times. Pharmaceutical drugs are administered for curing a wide range of diseases. This industry has been flourishing in recent times. This book studies in detail the design, structure and synthesis of pharmaceutical drugs. It consists of some of the advanced topics such as biomolecules, biosensors, biotechnology, chemical synthesis, chemoinformatics, biomarkers, pharmaceutical analysis, etc. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Also included in this book is a detailed explanation of the various concepts and applications of pharmaceutical science. It is a valuable source of reference for students seeking detailed information in this area as well as for experts.

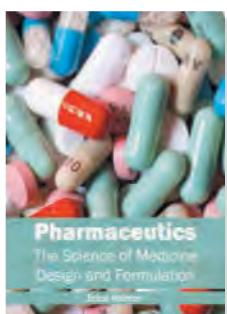


Pharmaceutical Sciences

Brendon Krauss | ISBN 978-1-63239-674-7 | \$155.00 US | 2016 | Book Size 8.5"x11" | 281pp. Colored | Hardback

Pharmaceutics: Design and Manufacturing of Medicines

Pharmaceutics is a branch of medicine which deals with turning new chemical entity or other drugs into safe and effective medicines. It also includes the formulation of therapeutically relevant drugs. It has different branches namely pharmaceutical formulation, pharmaceutical manufacturing, dispensing pharmacy, physical pharmacy, etc. This book provides comprehensive insights into this field. It includes detailed explanations of the various concepts and applications of this field. It includes contributions of experts and scientists which will provide in-depth knowledge of this subject. For all the readers who are interested in this topic the examples included in it will serve as an excellent guide to develop a comprehensive understanding. It will prove to be a beneficial source of reference for students and researchers alike.

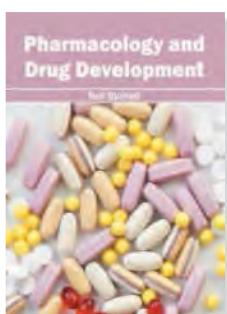


Pharmaceutical Sciences

Erica Helmer | ISBN 978-1-63239-734-8 | \$132.00 US | 2016 | Book Size 8.5"x11" | 215pp. Colored | Hardback

Pharmaceutics: The Science of Medicine Design and Formulation

This book contains some path-breaking studies related to the field of pharmaceutics. It elucidates new techniques and their applications in a multidisciplinary approach. Pharmaceutics refers to the study of designing and formulating new and better medicines from the available drugs. It deals with manufacturing of advanced drugs which are harmless and efficient. It has many branches like dispensing pharmacy, physical pharmacy, pharmaceutical manufacturing, pharmaceutical jurisprudence, etc. This text includes topics of utmost significance which are bound to provide incredible insights in the field of pharmaceutics. Different approaches, evaluations, methodologies and advanced studies in this area have been included in this book. It will be immensely beneficial to students, pharmacists, doctors and researchers and anyone else related with this field.



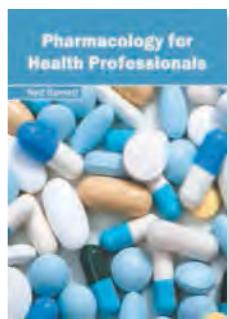
Pharmaceutical Sciences

Ned Burnett | ISBN 978-1-63239-745-4 | \$150.00 US | 2016 | Book Size 8.5"x11" | 271pp. Colored | Hardback

Pharmacology and Drug Development

Pharmacology is the science of drug action and drug delivery. It studies the interaction of drugs whether natural or artificial with the biological systems. It also deals with discovery, research and characterization of chemicals that have the capability of curing a disease. It studies drug synthesis and design, molecular and cellular mechanisms, interactions, toxicology, etc. The objective of this book is to give a comprehensive overview of the different areas of pharmacology and drug development. Also included in this book is a detailed explanation of the various concepts and applications of pharmacology and drug development. With state-of-the-art inputs by acclaimed experts of this field, this book targets students, professionals, pharmacologists and anyone else interested in this field.

Pharmaceutical Sciences



Pharmaceutical Sciences

Ned Burnett

ISBN
978-1-63239-746-1

\$145.00 US

2016

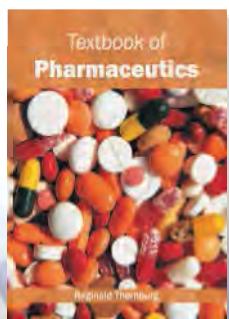
Book Size
8.5"x11"

260pp.
Colored

Hardback

Pharmacology for Health Professionals

Pharmacology refers to a branch of medicinal science which deals with the study of any artificial, natural and endogenous molecule which has a biochemical or physiological effect on the tissues, cells and organs of any living body. It studies the interactions between drugs and organs. Health professionals like physicians and pharmacists need a deep understanding of the drugs and their administration as they need to provide patients with the correct dosage and efficient medicines. This book gives comprehensive insights into the field of pharmacology. It elucidates the formations and applications of various new and existing drugs in a detailed manner. The objective of this text is to provide in-depth knowledge of the different uses and areas of pharmacology. It will serve as a valuable source of reference for professionals, students and researchers alike.



Pharmaceutical Sciences

Reginald Thornburg

ISBN
978-1-63239-757-7

\$150.00 US

2016

Book Size
8.5"x11"

273pp.
Colored

Hardback

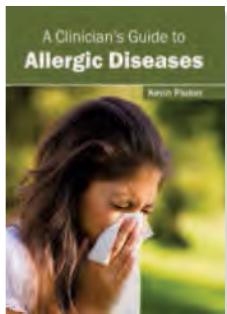
Textbook of Pharmaceutics

Pharmaceutics is the science of designing drug dosages. It has three subfields namely formulation science, biopharmaceutics and pharmacokinetics. After the formulation and production of an important drug, it is very essential to find the proportion in which a drug is required. This discipline tries to study the interaction of various quantities of dosages of the formulated drug with the human body, its effects and optimum concentration. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in this field. For someone with an interest and eye for detail, this book covers the most significant topics in the field of pharmaceutics. It will serve as a valuable source of reference for pharmacologists, researchers and students.



Public Health

Public Health



Kevin Parker

ISBN
978-1-63239-660-0

\$145.00 US

2016

Book Size
8.5"x11"

249pp.
Colored

Hardback

A Clinician's Guide to Allergic Diseases

Allergic diseases or allergy is the uneasiness caused due to the presence of some allergens like pollens, food items, grasses, dogs, cat fur etc. Generally allergic people are more sensitive to these substances which may cause swelling, sneezing, red eye and itching. Sometimes a long exposure to these materials may be life threatening. Accurate diagnosis and identification of the allergen responsible is quite crucial for clinicians to provide the curative measures. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of allergic diseases. It strives to provide a fair idea about potential allergy causing substances and treatments already available and new entrants to the list. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

Public Health



Kelly Ward

ISBN
978-1-63239-739-3

\$150.00 US

2016

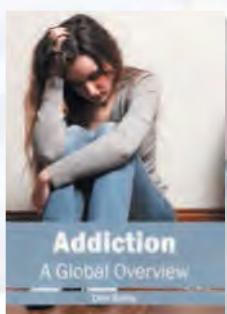
Book Size
8.5"x11"

264pp.
Colored

Hardback

A Clinician's Guide to Primary Healthcare

The objective of primary health care is easily accessible health care facilities for all. It also tries to ensure clean and improved environment to prevent health hazards. The aim to deliver better facilities without discrimination has been prevailing ever since the dawn of globalization; but there is a vast gap between demand and supply. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in this field. The readers would gain knowledge that would broaden their perspective about primary health care. Such selected concepts that redefine this field have been presented herein. Different approaches, evaluations, methodologies and advanced studies in the sector of primary healthcare have also been included in this book.



Don Boles

ISBN
978-1-63239-634-1

\$132.00 US

2016

Book Size
8.5"x11"

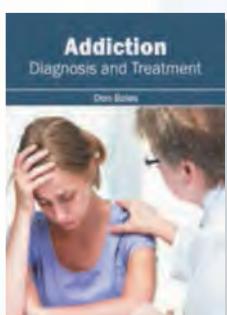
201pp.
Colored

Hardback

Addiction: A Global Overview

Some of us knowingly or unknowingly indulge into some habits which eventually lead to addiction over a period of time. Addiction is the stronger form of habit which can be referred to as a compulsive disorder. This book aims to bring fourth some of the unexplored aspects of addiction and recent researches in this field. Different approaches, evaluations, methodologies and advanced studies have been included in it. This book serves as a reference to a wide spectrum of readers. It aims to understand the various factors that stimulate and facilitate addiction. It also sheds light on behavioral addiction along with methods for diagnosis and treatment therapies. It covers some existent theories and innovative concepts revolving around addiction.

Public Health



Don Boles

ISBN
978-1-63239-672-3

\$145.00 US

2016

Book Size
8.5"x11"

254pp.
Colored

Hardback

Addiction: Diagnosis and Treatment

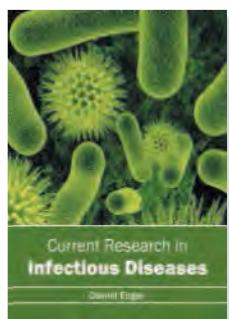
Addiction is a medical condition. It is a disease characterized by compulsive behavior. Excessive exposure to addictive substances such as alcohol, morphine, etc is the primary cause of addiction. This book delves into the latest diagnostic techniques and treatment therapies in the field. It explores all the significant aspects related to addiction in the present day scenario. This book includes researches and studies performed by experts all around the globe. It is an ideal text for a broad spectrum of readers including psychiatrists, general medical practitioners, professionals and students associated with this field.



Kevin Parker | ISBN 978-1-63239-652-5 | \$145.00 US | 2016 | Book Size 8.5"x11" | 243pp. Colored | Hardback

Allergic Diseases

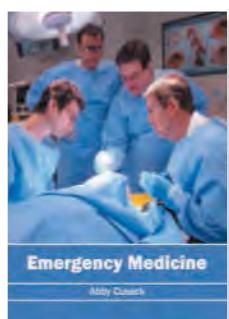
This book aims to understand the vast field of allergic diseases. Allergies refer to the diseases which are caused by the vulnerability of our immune system when it is exposed to dust particles or other microorganisms present in the environment. Some common allergies are related to food, pollens, dust particles, insect bites, etc. Some allergies can be critical and cause death like asthma or anaphylaxis. This book unravels the recent studies in the field of allergic diseases. The topics covered in this book offer the readers new insights in this field. This book will help new researchers by foregrounding their knowledge in this branch. It will serve as a valuable source of reference for anyone interested in the subject.



Daniel Enger | ISBN 978-1-63239-644-0 | \$140.00 US | 2016 | Book Size 8.5"x11" | 224pp. Colored | Hardback

Current Research in Infectious Diseases

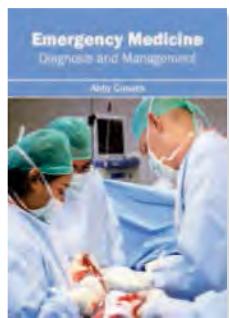
Infectious Diseases are an ever growing concern for medical professionals around the globe in today's world. They refer to the disorders caused by the pathogens like bacteria, viruses, germs or fungi. They are acquired by insect bites, consumption of contaminated food or water. These diseases are highly communicable and many of them can be fatal for the living species. Some of the widely known infectious diseases are HIV, Malaria, dengue fever, etc. This book attempts to understand the multiple branches that fall under this discipline and explores the recent researches in the field of infectious diseases. Therefore, this book will help readers in keeping pace with the rapid changes in the world. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.



Abby Cusack | ISBN 978-1-63239-717-1 | \$155.00 US | 2016 | Book Size 8.5"x11" | 303pp. Colored | Hardback

Emergency Medicine

Emergency medicine refers to the process of dealing with unscheduled patients who are in a critical need for medical attention. Emergency doctors perform surgeries, diagnosis and other treatments on these patients in order to get them out of life threatening situations. This field of science is progressing rapidly because of the new technological advances. This book traces the progress of this field and highlights some of its key concepts and applications. Most of the topics introduced in this text cover new techniques and researches in the discipline of emergency medicine. The various case studies and theories provided in this book, make it a valuable asset for the readers. It aims to serve as a resource guide for students and experts alike.



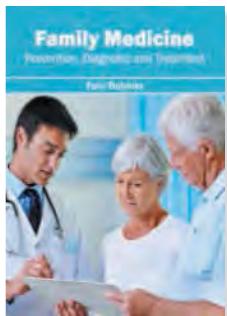
Abby Cusack | ISBN 978-1-63239-758-4 | \$145.00 US | 2016 | Book Size 8.5"x11" | 247pp. Colored | Hardback

Emergency Medicine: Diagnosis and Management

This book outlines the processes and applications of emergency medicine in detail. It includes the fundamental as well as modern approaches of this discipline. Emergency medicine refers to the practice of providing immediate care, treatment and medical assistance to patients in order to prevent death and further disability. The aim of emergency physicians is to give urgent stabilization, evaluation, recognition and disposition at the time of emergency. This book strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances associated with emergency medicine. It also includes contributions of experts and scientists which will provide innovative insights into this field. It will help students, physicians, surgeons, researchers and all those interested in this area to keep pace with the rapid changes in this field.

Public Health

Public Health



Felix Rohmer

ISBN
978-1-63239-753-9

\$155.00 US

2016

Book Size
8.5"x11"

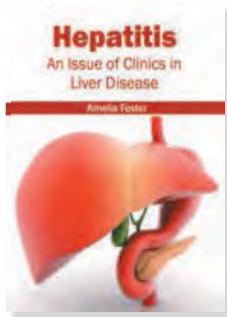
291pp.
Colored

Hardback

Family Medicine: Prevention, Diagnosis and Treatment

Family medicine covers prevention, diagnosis and cure of diseases for people of all ages constituting a family or a community. Due to its integrated approach, family medicine is capable of treating almost all the ailments. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. The topics covered herein deal with the core areas of family medicine. The progress of this field along with the key concepts have been thoroughly discussed in this text. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

Public Health



Amelia Foster

ISBN
978-1-63239-741-6

\$140.00 US

2016

Book Size
8.5"x11"

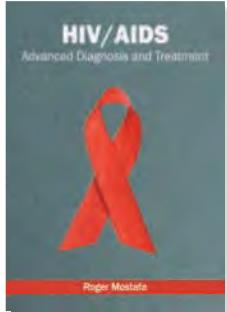
234pp.
Colored

Hardback

Hepatitis: An Issue of Clinics in Liver Disease

Hepatitis is the inflammatory condition of liver usually caused by viral, parasitic and bacterial infection but there may be other causes related to it. There can be different types of hepatitis depending upon the cause such as acute, fulminant and chronic hepatitis. Liver failure, fatigue, appetite loss, joint pain and yellowing of eyes are some of the common symptoms observed when a person suffers this disease. This book covers in detail all the aspects of this disease such as symptoms, causes, diagnosis, treatment, prevention, etc. It includes contributions of experts which will unfold innovative prospects and mechanisms related to hepatitis. This book provides comprehensive insights into this field. It will help new researchers by foregrounding their knowledge in this area.

Public Health



Roger Mostafa

ISBN
978-1-63239-730-0

\$150.00 US

2016

Book Size
8.5"x11"

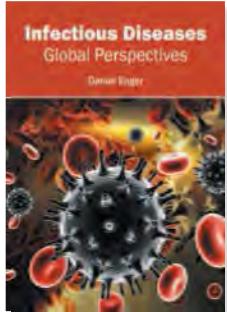
276pp.
Colored

Hardback

HIV/AIDS: Advanced Diagnosis and Treatment

Human Immunodeficiency Virus (HIV) is perhaps the most fatal retrovirus encountered by researchers till date. AIDS is a communicable disease which can be transmitted through body fluids such as blood, breast milk, vaginal fluids, semen, etc. It destroys the immunity of a person completely and makes him/her susceptible to diseases. As there are numerous studies which are being conducted worldwide, this book has been compiled to provide the readers with some thoroughly selected advances made in this area. Different approaches, evaluations, diagnostic techniques, treatment methodologies and advanced studies in the area of HIV/AIDS have been included in it. This book, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this field at various levels.

Public Health



Daniel Enger

ISBN
978-1-63239-722-5

\$145.00 US

2016

Book Size
8.5"x11"

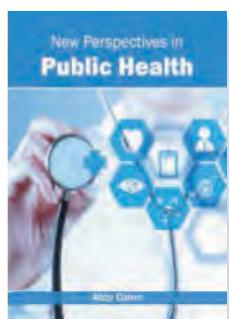
260pp.
Colored

Hardback

Infectious Diseases: Global Perspectives

This book deals with the diverse outlooks and perspectives related to infectious diseases. It unravels the recent studies in this field. Infections are caused by pathogens such as bacteria, fungi, protozoa, parasites, etc. Infectious diseases are also known as communicable diseases and can be treated with antibiotics, antifungals, antiprotozoals etc. Extensive research and new technology is required to deal with these diseases. Through this book, we attempt to further enlighten the readers about the new concepts in area. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and researches in the field of infectious diseases. It aims to serve as a resource guide for students and experts alike and contribute to the understanding of new diagnostic techniques in this discipline.

Public Health



Public Health

Abby Calvin | ISBN 978-1-63239-773-7 | \$140.00 US | 2016 | Book Size 8.5"x11" | 233pp. Colored | Hardback

New Perspectives in Public Health

This book aims to shed light on some of the unexplored aspects of public health and the recent researches in this field. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advancements within this area of study. Public health is mainly concerned with providing all round healthcare facilities. It aims at overall welfare rather than eradication of disease only. It is a multidisciplinary field that encompasses environmental health, community health, biostatistics, behavioral health, insurance medicine, etc. While understanding the long-term perspectives of the topics, this book makes an effort in highlighting their impact as a modern tool for the growth of the discipline. It will serve as a valuable source of reference for healthcare professionals, researchers and students associated with public health.



Public Health

Cynthia Wilson | ISBN 978-1-63239-775-1 | \$155.00 US | 2016 | Book Size 8.5"x11" | 286pp. Colored | Hardback

Nursing Practice and Healthcare

This book traces the progress of the field of nursing, its practice and associated healthcare. It highlights some of its key concepts and applications. Nursing falls under the branch of healthcare and is mainly referred to as a practice of taking care of families, individuals and communities, so that they maintain or recover to optimum health. The topics included in this book have been contributed by international experts and will provide incredible insights to readers. This book is a compilation of chapters that discuss the most vital aspects and emerging trends in the field of nursing and healthcare. It is appropriate for students seeking detailed information in this area as well as for experts. This text will prove beneficial to nurses, practitioners, students and anyone else interested in this field.



Public Health

Cynthia Wilson | ISBN 978-1-63239-774-4 | \$155.00 US | 2016 | Book Size 8.5"x11" | 300pp. Colored | Hardback

Nursing: Theory, Skills and Practice

Nursing is a paramedical profession within healthcare system. It aims at training professionals for providing care for families, communities, and individuals to help them recover to optimal health. It mainly involves working in collaboration with therapists, physicians, patients and patients' family. This book contains some path-breaking studies in the field of nursing. The topics presented herein are of utmost significance and bound to provide incredible insights to readers. Also included in this book is a detailed explanation of the various concepts and applications of this discipline. The detailed analyses, data, and fundamentals included in it, will prove immensely beneficial to professionals and students involved in this area at various levels.



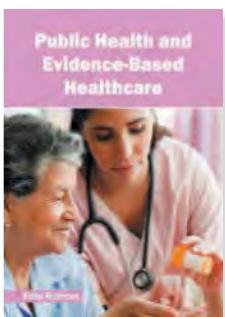
Public Health

Kelly Ward | ISBN 978-1-63239-751-5 | \$155.00 US | 2016 | Book Size 8.5"x11" | 287pp. Colored | Hardback

Primary Healthcare and Family Medicine

Primary healthcare is a field dedicated to making essential healthcare accessible to every individual across the globe. Family medicine is a specialty under the umbrella of primary healthcare. Together they are pushing the boundaries of the traditional healthcare system. This book focuses on the goals, concepts and principles of primary healthcare and family medicine. It brings forth the diverse approaches in this area and their applications in the modern times. It outlines the processes and studies that are constantly contributing towards the evolution of this field. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and healthcare and public health professionals.

Public Health

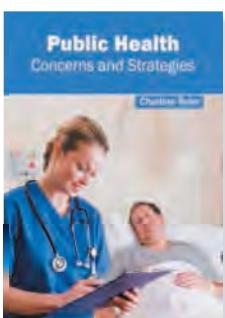


Public Health

Felix Rohmer | ISBN 978-1-63239-744-7 | \$150.00 US | 2016 | Book Size 8.5"x11" | 269pp. Colored | Hardback

Public Health and Evidence-Based Healthcare

Public health refers to building an organized effort towards prevention of diseases, promotion of health and improved life expectancy. It is an interdisciplinary field that encompasses biostatistics, health services and epidemiology. This discipline tries to improve health and quality of life through promotion of healthy habits, scrutinizing cases and health indicators. Evidence-based healthcare is the practice of medicine that tries to optimize the results using evidences from well designed and precisely conducted researches. Both of these work in tandem to create a synergic effect resulting in maximum positive impact. This book includes some of the vital pieces of work being conducted across the world, on various topics related to public health and evidence-based healthcare. The topics included herein are of utmost significance and bound to provide incredible insights to readers. This book presents researches performed by experts across the globe and explains the significance of public health in modern times. It is a resource guide for healthcare experts as well as students.

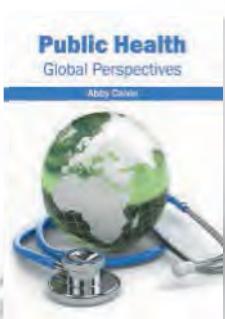


Public Health

Charline Ryler | ISBN 978-1-63239-740-9 | \$150.00 US | 2016 | Book Size 8.5"x11" | 265pp. Colored | Hardback

Public Health: Concerns and Strategies

This book traces the progress of the field of public health and highlights some of its key concepts and applications. As a branch of science public health deals with protecting and improving the health of people by promoting better lifestyle choices, diagnosis and prevention of infectious diseases and advocating general hygiene. It has various sub-fields like community health, health economics, insurance medicine, environmental health, etc. This book elucidates the theories and innovative models around prospective developments with respect to this subject. It attempts to understand the multiple branches that fall under this discipline and how such concepts have practical applications. Most of the topics introduced in this book cover the immediate concerns and emerging strategies of public health. This text will provide comprehensive knowledge to the readers and will serve as a valuable reference guide.

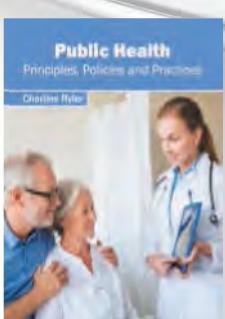


Public Health

Abby Calvin | ISBN 978-1-63239-776-8 | \$132.00 US | 2016 | Book Size 8.5"x11" | 200pp. Colored | Hardback

Public Health: Global Perspectives

Public health is the combination of all the measures required for the facilitation of health and prevention of disease. It makes an effort to provide complete care through surveillance of cases, health indicators and promotion of healthy habits. This discipline incorporates behavioral health, health economics, public policy, insurance medicine, biostatistics, etc. This book elucidates the concepts and innovative models around prospective developments with respect to public health. It explores all the important aspects of this discipline in the present day scenario. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. The extensive content of this book provides the readers with a thorough understanding of the subject. Students, researchers, doctors, public health professionals, experts and all associated with this area will benefit alike from this book.



Public Health

Charline Ryler | ISBN 978-1-63239-742-3 | \$150.00 US | 2016 | Book Size 8.5"x11" | 267pp. Colored | Hardback

Public Health: Principles, Policies and Practices

Public health refers to the practice of promoting better health education, researching new innovative methods to cure diseases, enforcing laws and regulations to provide health care benefits, developing plans to aid community health efforts, preventing diseases and advocating general hygiene, etc. It aims to diagnose and treat mental and physical disorders and other mental health conditions. It incorporates health policy which refers to the practice of forming rules and plans in order to achieve healthcare goals within a community. Some of the diverse topics covered herein address the varied branches that fall under this category. This book provides comprehensive insights into the field of public health. It strives to give a fair idea about this discipline and to help develop a better understanding of the latest advances within this discipline. It is appropriate for students seeking detailed information in this subject, as well as for experts.

Veterinary Science and Medicine



Veterinary Science and Medicine					
Mel Roth	ISBN 978-1-63239-847-5	\$135.00 US	2017	Book Size 8.5" x 11"	234pp. Colored Hardback

Clinical Veterinary Medicine

The branch of medicine that deals with the causes, diagnosis and treatment of diseases and injuries of animals is called veterinary medicine. There has been rapid progress in this field and its applications are finding their way across multiple industries. It aims to cover a wide range of topics that are essential in understanding the field of clinical veterinary medicine. This book will also provide interesting topics for research which readers can take up. Different approaches, evaluations, methodologies and advanced studies in this field have been included in this book. For all those who are interested in veterinary sciences and medicine the case studies included in this book will serve as excellent guide to develop a comprehensive understanding.



Veterinary Science and Medicine					
Shawn Kiser	ISBN 978-1-63239-846-8	\$140.00 US	2017	Book Size 7.75" x 10.5"	239pp. Colored Hardback

Veterinary Diseases: Identification, Treatment and Prevention

This book provides comprehensive insights into the field of veterinary diseases. It elucidates new techniques and their applications in a multidisciplinary approach. Veterinary diseases are the disorders found in animals. Some of the most common diseases in animals are aflatoxicosis, rabies, tick fever, tuberculosis, ringworm, etc. Laboratory tests are performed to diagnose the disease and then a treatment plan is formed to cure the same. This text provides significant information of this discipline to help develop a good understanding of veterinary diseases and related fields. Different approaches, evaluations, methodologies and advanced studies on diagnosis and treatment of veterinary diseases have been included in this book. It is a compilation of chapters that discussed the most vital concepts and emerging trends in this field. The readers would gain knowledge that would broaden their perspective about this subject. Students, researchers, experts and all associated with the field of veterinary medicine will benefit alike from this book.



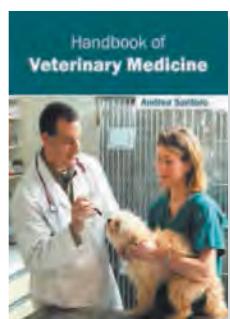
Veterinary Science and Medicine					
Gerardo Bailey	ISBN 978-1-63239-880-2	\$130.00 US	2017	Book Size 7" x 10"	217pp. Colored Hardback

Veterinary Science: Animal Pathology and Clinical Aspects

This book attempts to understand the multiple branches that fall under the discipline of veterinary science and how such concepts have practical applications. It delves into the anatomy and clinical pathology of animals. This field incorporates the study and treatment revolving around domesticated as well as wild animals. The topics included in this book on veterinary science are of utmost significance and bound to provide incredible insights to readers. The various advancements in this field are glanced at and their applications as well as ramifications are looked at in detail. This book, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this area at various levels.



Veterinary Science and Medicine



Andrea Santoro

ISBN
978-1-63239-670-9

\$155.00 US

2016

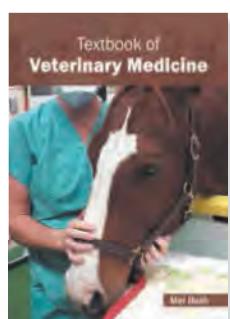
Veterinary Science and Medicine

Book Size
8.5"x11"
281pp.
Colored

Hardback

Handbook of Veterinary Medicine

Veterinary medicine deals with the treatment and diagnosis of diseases in animals. It indirectly prevents human beings from contracting diseases from pet and farm animals in case of contact. These medicines are also applied to increase the productivity of these animals. This book provides significant information of this discipline to help develop a good understanding of veterinary science and medicine. The topics covered in this extensive book deal with the core subjects of this area of biomedical science. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts as easy and informative as possible, for the readers. It includes contributions of experts and scientists which will provide innovative insights into this field.



Mel Roth

ISBN
978-1-63239-676-1

\$145.00 US

2016

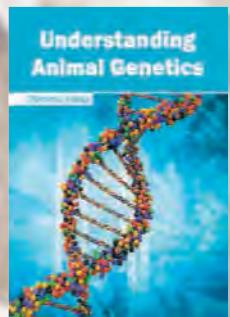
Veterinary Science and Medicine

Book Size
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Hardback

Textbook of Veterinary Medicine

This book explores all the important aspects of veterinary medicine in the present day scenario as well as its future prospects. It aims to shed light on some of the unexplored areas and recent researches of this discipline. Veterinary medicine primarily deals with prevention, diagnosis and treatment of diseases in animals. It also helps to prevent the spread of diseases from animals to human beings. Different approaches, evaluations, methodologies, and advanced studies have been included in this book. It will prove to be immensely beneficial to veterinary doctors, paraveterinary workers, students and researchers in this field.



Dominic Fasso

ISBN
978-1-63239-646-4

\$150.00 US

2016

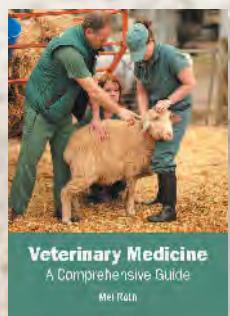
Veterinary Science and Medicine

Book Size
8.5"x11"
266pp.
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Hardback

Understanding Animal Genetics

This book aims to understand the field of animal genetics. It has gained prominence due to the recent advances in this area. Animal genetics is predominantly a branch of biology although it borrows its elements from several disciplines such as life sciences, etc. It primarily studies heredity and variation in animals. It also delves into the core areas of genetics such as resistance to disease, morphological defects, underdevelopment of individual organs, trait inheritance, etc. The extensive content of this book provides the readers with a thorough understanding of the subject. Those in search of information to further their knowledge of this field will be greatly assisted by this book.



Mel Roth

ISBN
978-1-63239-702-7

\$150.00 US

2016

Veterinary Science and Medicine

Book Size
8.5"x11"
266pp.
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Hardback

Veterinary Medicine: A Comprehensive Guide

This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of veterinary medicine. It is the branch of medical science that deals with the diagnosis and treatment of diseases related to farm animals as well as wild animals. It not only helps in faster recovery of the cattle but also ensures their optimum health and productivity. This field of medicine also protects human beings indirectly from diseases that can be spread by animals in their immediate surroundings. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. It is appropriate for students seeking detailed information in this field as well as for experts.

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