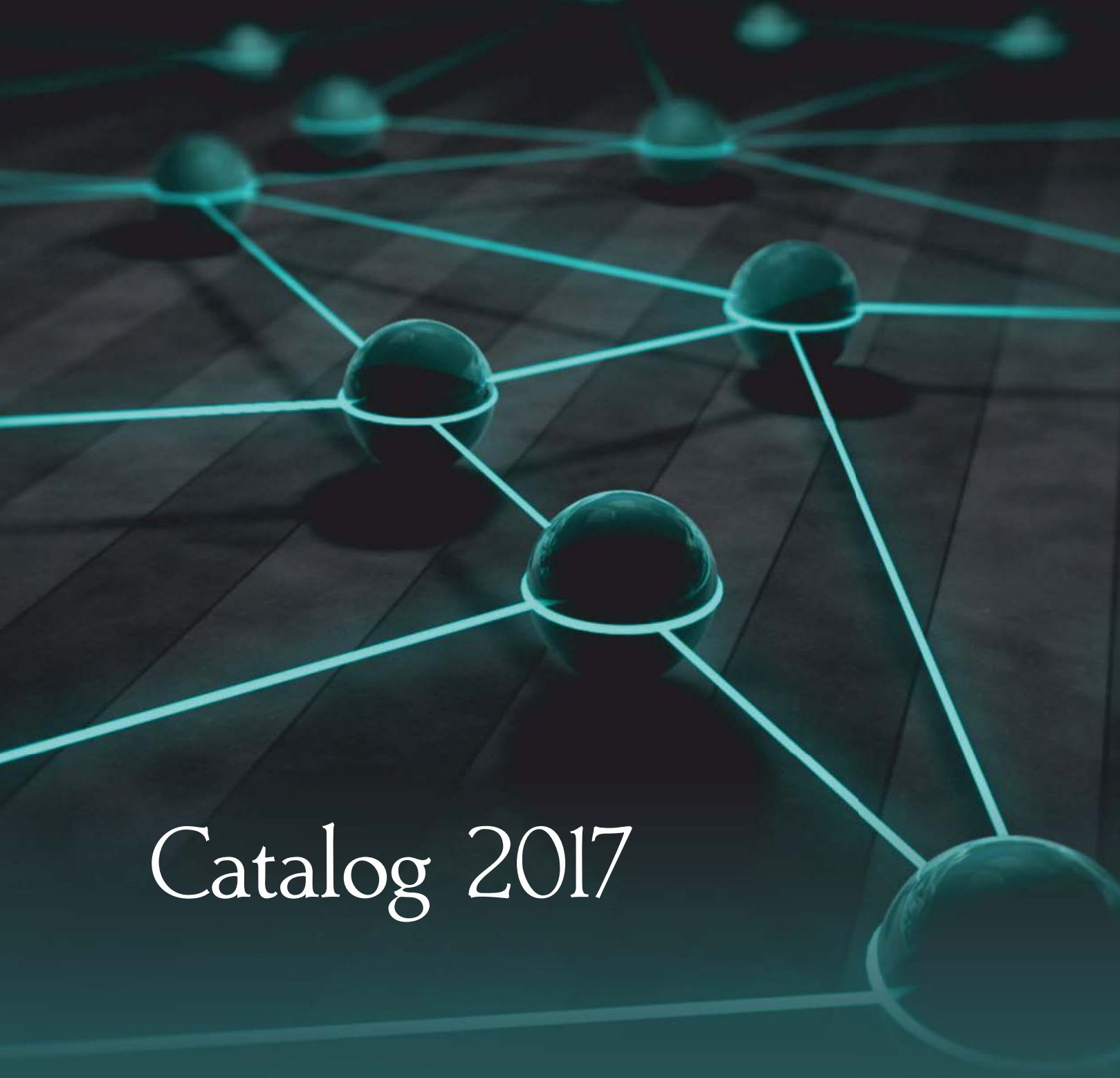

Catalog 2017

- Business, Management and Economics
- Computer and Information Science
- Education
- Engineering & Technology
- Media and Communication Studies
- Social Sciences
- Tourism

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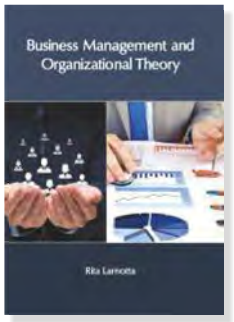
Business Management

Rita Lamotta

ISBN: 978-1-63240-593-7
$149.95 US
2017
Book Size: 8.5”x11”
249pp./Colored
Hardback



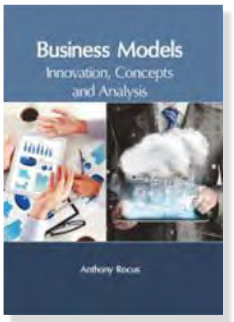
Business Management and Organizational Theory

This book on business management and organizational theory deals with the strategies that have been developed to efficiently utilize the already existing resources of an organization. Organisation theory plays a significant role in business management by facilitating organisational analysis. This book provides significant information of this discipline to help develop a good understanding. It includes some of the vital pieces of work being conducted across the world, on various topics related to business management organisational theory. This book is a vital tool for all researching and studying this field. It will prove immensely beneficial to students, experts and professionals in the fields of entrepreneurship, management theory and managerial decision-making.

Business Management

Anthony Rocus

ISBN: 978-1-63240-589-0
$149.95 US
2017
Book Size: 8.5”x11”
248pp./Colored
Hardback



Business Management: Modeling and Innovation

The abstract representation of the organization which is either conceptual or textual in nature encompassing all core interrelated architectural, operational and financial arrangements is referred to as a business model. This book elucidates new techniques and their applications in a multidisciplinary approach. It aims to present readers various models of this field of study used by experts over time for effective and efficient business practices. The various advancements in business models are glanced at and their applications as well as ramifications are looked at in detail. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the field of business models. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

Business Management

Anthony Rocus

ISBN: 978-1-63240-588-3
$154.95 US
2017
Book Size: 8.5”x11”
261pp./Colored
Hardback

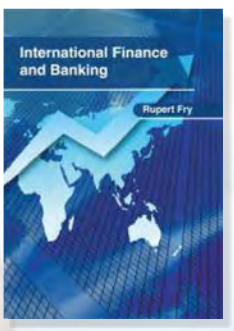
E-commerce: Business Models and Service Management

E-commerce is a relatively nascent yet swiftly expanding field of study. It is concerned with trading via computer networks, primarily internet. The aim of this book is to present researches that have transformed this discipline and aided its advancement. This book strives to put across a plethora of tools and techniques that e-commerce business specialists employ like online shopping websites, online marketplaces and electronic data interchange, etc. The text also lays forth multiple business applications of e-commerce that are prevalent across the globe. 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. For all readers who are interested in E-commerce, the case studies included herein will serve as an excellent guide to develop a comprehensive understanding of the field.

Business Management

Rupert Fry

ISBN: 978-1-63240-621-7
$137.95 US
2017
Book Size: 7.75”x10.5”
226pp./Colored
Hardback



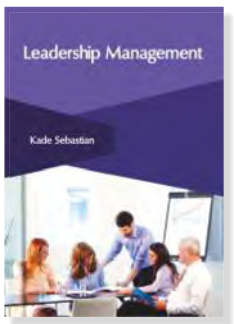
International Finance and Banking

As the field of banking and finance is emerging at a rapid pace, the contents of this book will help the readers understand the fundamental as well as modern concepts and applications of international finance and banking. The introduction of digital payment gateways, cashless transactions, etc. are some of the recent advancements in international finance and banking. The readers of this book would gain knowledge that would broaden their perspective about finance and banking. It also attempts to understand how the industry is evolving to keep up with the dynamics of monetary transactions. A number of latest researches have been included to keep the readers up-to-date with the global concepts in the area of finance and banking.

Business Management

Kade Sebastian

ISBN: 978-1-63240-610-1
$144.95 US
2017
Book Size: 7”x10”
232pp./Colored
Hardback



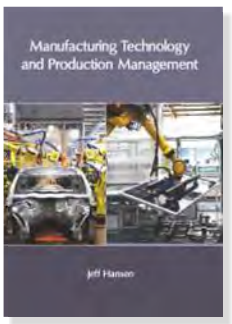
Leadership Management

Leadership is an essential skill for managers across the globe. It helps organisations achieve their goals by the effective management of people and other resources. This book contains some pathbreaking studies in this field. It elucidates new techniques and their applications in a multidisciplinary approach. This book elucidates the concepts and innovative models around prospective developments with respect to leadership management. From theories to research to practical applications, cases studies related to all contemporary topics of relevance to this field have been included in this book. It is an essential guide for executives, business owners, managers and researchers in the field of management.

Business Management

Jeff Hansen

ISBN: 978-1-63240-614-9
$119.95 US
2017
Book Size: 8.5”x11”
204pp./Colored
Hardback



Manufacturing Technology and Production Management

This book on manufacturing technology and production management deals with the processes that determine how products are to be manufactured. Various kinds of production processes exist which manufacture particular commodities; some may rely more on technology and others on personnel. Time and cost estimates play an important role in setting goals and strategies for the same. This book includes contributions of experts and scientists which will provide innovative insights into the field of manufacturing and production management. Contents included in this text aim to contribute to the already existing research on production management and technology. It traces the progress of this field and highlights some of its key concepts and applications. This book, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this area at various levels.

Business Management

Bert Sawford

ISBN: 978-1-63240-601-9
$119.95 US
2017
Book Size: 8.5”x11”
205pp./Colored
Hardback

Organizational Management

Organizational management is an emerging field of study. It is concerned with organizing and utilizing the diverse resources of an organisation to achieve a defined goal. This involves resource assessment, resolving issues, decision making, etc. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of organizational 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. The extensive content of this book provides the readers with a thorough understanding of the subject. This book attempts to assist those with a goal of delving into the field of organizational management.

Business Management

Bert Sawford

ISBN: 978-1-63240-602-6
$137.95 US
2017
Book Size: 8.5”x11”
226pp./Colored
Hardback

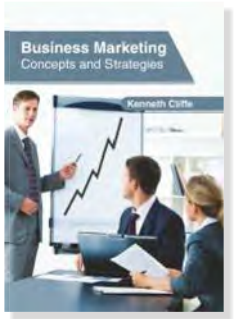
Strategic Management for Business

Strategic management involves decision making by assessing available resources. Strategic management also defines organizational goal along with designing the plans to achieve those goals. This book provides comprehensive insights into this field. Also included in this book is a detailed explanation of the various concepts and applications of strategic management. This book presents contributions of experts and scientists which will provide innovative insights into this field. It is a vital tool for all researching and studying this field.

Marketing Management

Kenneth Cliffe

ISBN: 978-1-63240-622-4
$144.95 US
2017
Book Size: 7.75”x10.5”
240pp./Colored
Hardback



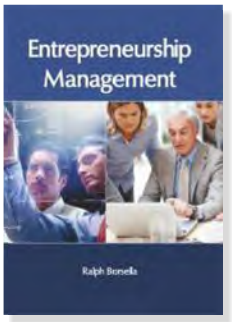
Business Marketing: Concepts and Strategies

Concepts and strategies of business marketing have been highlighted in this book. Business marketing deals with the process of selling products or services. This selling can occur either at a business-to-business level or business-to-consumer level. Some of the diverse topics covered in this book address the various branches that fall under this category. It brings forth some of the innovative concepts and elucidates the unexplored aspects of business marketing. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of business marketing as easy and informative as possible, for the readers.

Entrepreneurship

Ralph Borsella

ISBN: 978-1-63240-604-0
$154.95 US
2017
Book Size: 8.5”x11”
252pp./Colored
Hardback



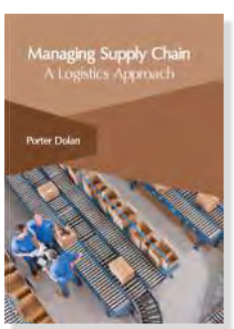
Entrepreneurship Management

Entrepreneurship management can be defined as the application of entrepreneurial knowledge for the management of small and medium sized businesses. This book on entrepreneurship management discusses topics related to team-building, leadership and innovation. Entrepreneurship management deals exclusively with the facets of entrepreneurship that are required to run a business successfully. The aim of this book is to present researches that have transformed this discipline and aided its advancement. It explores all the important aspects of entrepreneurship management in the present day scenario and strives to provide comprehensive understanding of the subject. This book will serve as a reference to a broad spectrum of readers. Those in search of information to further their knowledge will be greatly assisted by this book. It will serve as a valuable source of reference for managers, entrepreneurs, students and researchers associated with this field.

Supply Chain Management

Porter Dolan

ISBN: 978-1-63240-606-4
$119.95 US
2017
Book Size: 7”x10”
200pp./Colored
Hardback



Managing Supply Chain: A Logistics Approach

Supply chains are a visualization of the movement of goods from producer to consumer. This book on managing supply chains discusses the various components that comprise supply chains. Proper handling of material, packaging, transportation and warehousing is a significant aspect of supply chain management. This book is a vital tool for all researching and studying this field. Topics included in this book deal with the efficient usage of supplies. The aim of this text is to present researches that have transformed this discipline and aided its advancement. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of supply chain management. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals.

Supply Chain Management

Bruce Robinson

ISBN: 978-1-63240-594-4
$132.95 US
2017
Book Size: 8.5”x11”
211pp./Colored
Hardback

Manufacturing Planning and Logistics Management

Manufacturing is related to the processing of raw materials into a consumable product. Logistics is concerned with the distribution of such consumable products to the end consumers. These fields are often studied in conjunction with each other. This book attempts to understand the multiple branches that fall under the discipline of manufacturing planning and logistics management 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 book includes contributions of experts and scientists which will provide innovative insights. It is appropriate for students seeking detailed information in this area as well as for experts.

Business Management

Rupert Fry

ISBN: 978-1-63240-534-0
$152.95 US
2016
Book Size: 8.5”x11”
271pp./Colored
Hardback

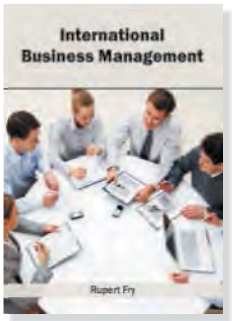
Business Management: Modern Approaches

Business management is a dynamic field with plausible applications in multiple areas. A business can be a firm, an entity or an agency providing consumers with a product or service whereas, Management is the effort to coordinate the functions of all the people involved in the business to achieve the desired goal. Business and management together form an entirely new discipline that can be used in any organization whether a small firm or a multi-national company. This book includes some of the vital pieces of work being conducted across the world, on various topics such as policies, strategies, and administration related to business and management. Coherent flow of topics, reader-friendly language and extensive use of examples make this book an invaluable source of knowledge. It will help the readers in keeping pace with the rapid changes in this field. The researches included in this book have been contributed by veterans from across the globe, giving it a truly global perspective.

Business Management

Rupert Fry

ISBN: 978-1-63240-537-1
$154.95 US
2016
Book Size: 8.5”x11”
284pp./Colored
Hardback



International Business Management

This book presents researches and studies performed by experts across the globe in the field of international business management giving detailed insights to the readers. International business gained importance since the dawn of globalization. It is mainly concerned with the businesses that operate in more than one country. This includes product presence in different markets of the world, production bases across the globe, investment in international services, etc. A number of developments in the functioning and structure of businesses around the world have fuelled the advances in this area. 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 is a rich account of information for the people interested and involved in this field. It will prove beneficial for managers and management students all around the world.

Marketing Management

Benedict Hunt

ISBN: 978-1-63240-577-7
$137.95 US
2016
Book Size: 8.5”x11”
218pp./Colored
Hardback

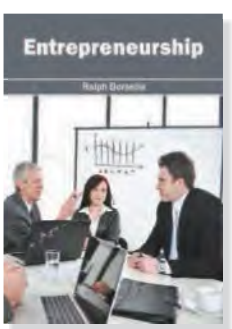
International Marketing Management

This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the field of international marketing management. As it is an ever growing field that has undergone rapid development over the past few decades, this book will trace its progress and highlight its key concepts and applications. Marketing management encompasses practical applications of marketing, understanding the techniques and strategies of a firm and governing marketing resources of a business. It uses the elements of stats, economics and competitive strategy to analyze the working of a business or a firm. For all those 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. This text will serve as a reference to a broad spectrum of readers including economists, managers, business personnel, entrepreneurs, students, etc.

Entrepreneurship

Ralph Borsella

ISBN: 978-1-63240-566-1
$143.95 US
2016
Book Size: 8.5”x11”
235pp./Colored
Hardback



Entrepreneurship

Entrepreneurship refers to the process of establishing, organizing or designing a new firm or business which offers goods, services or processes. It is also described as the capability to manage and develop a new business with the willingness to take risks in order to make profits. Entrepreneurs are also innovators, leaders and inventors. Factors that affect the success of an entrepreneurial venture are market strategies, establishing methods, industrial growth, team work, marketing force, goodwill, etc. This book explores the unexplored aspects of entrepreneurship by compiling case studies contributed by veterans from across the globe. It will also give in-depth knowledge about the various concepts related to this field. It is a valuable compilation of topics, ranging from the basic to the most complex approaches and techniques required to run a successful business. Students, researchers, entrepreneurs and anyone interested in this field will find this book full of crucial information.

Quality Management

Stacy Escobar

ISBN: 978-1-63240-576-0
$137.95 US
2016
Book Size: 8.5”x11”
216pp./Colored
Hardback

Quality Management

Quality management ensures the consistency of a product or service. It also devises different ways to achieve quality. It encompasses quality control, quality assurance, quality planning and quality improvement, etc. Quality management is based on a diverse set of principles such as leadership, customer focus, continual improvement, process approach, factual approach to decision making, etc. This book collates researches and studies performed by experts across the globe. 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 elucidates new techniques and their applications in a multidisciplinary approach. It also unravels the recent studies in the field of quality management. This book will prove to be immensely beneficial to students and researchers in this field.

Service Management

Bruce Robinson

ISBN: 978-1-63240-570-8
$132.95 US
2016
Book Size: 8.5”x11”
188pp./Colored
Hardback

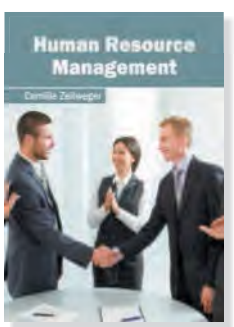
Service Management

Service is a type of economic activity that is intangible and does not result in the ownership of anything. Service management if considered in terms of manufacturing is closely related to supply chain management. Managing the quality and consistency of a service is the biggest challenge for organizations due to the high involvement of human factor. The most important concepts discussed under this discipline are service strategy definition, service portfolio management, warranty and claims management, activity scheduling, service billing, customer management, etc. This book contains some path-breaking studies in the field of service management. 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. 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 is an essential guide for both academicians and those who wish to pursue this discipline further.

Human Resource Management

Camille Zellweger

ISBN: 978-1-63240-573-9
$132.95 US
2016
Book Size: 8.5”x11”
198pp./Colored
Hardback



Human Resource Management

Human resource management is an organizational function that aims to maximize employee performance. It mainly focuses on devising policies and systems for regulating the human capital and formulating all the standards that determine the code of conduct in an organization. This discipline discuses a wide variety of topics such as training and development, recruitment and selection, workforce planning, job design and analysis, etc. This book unravels the recent studies in the field of human resource management. The topics included herein are of utmost significance and bound to provide incredible insights to readers. It will provide comprehensive knowledge to the readers. Researchers and students in this field will be assisted by this book. This book discusses the fundamental as well as modern approaches along with emerging trends revolving around this field.

Supply Chain Management

Bruce Robinson

ISBN: 978-1-63240-530-2
$143.95 US
2016
Book Size: 8.5”x11”
231pp./Colored
Hardback

Principles of Supply Chain Management

Supply chain management deals with management of supply that is, the shipping and receiving of goods, storage of raw materials, movement of the finished product and also everything in between these procedures. There are several principles of supply chain management which are discussed thoroughly in this book. It explores all the important aspects of this field and provides significant information of this discipline to help develop a good understanding of it and other related subjects. Different approaches, evaluations, methodologies and advanced studies in this field have been included in it. Coherent flow of topics, reader-friendly language and extensive use of examples make this book an invaluable source of knowledge.

Supply Chain Management

Bruce Robinson

ISBN: 978-1-63240-574-6
$137.95 US
2016
Book Size: 8.5”x11”
205pp./Colored
Hardback

Supply Chain Management: Planning and Operations

Supply chain management deals with the flow of goods and services. It includes movement and storage of all types of goods whether raw, semi-finished or finished goods. This is a multidisciplinary field and it integrates principles from systems engineering, industrial engineering, logistics, procurement, information systems, etc. Organizations need to strengthen their supply chains effectively in order to increase their market share and competitive position. The objective of this book is to give a general view of the different areas of supply chain management and its applications. It brings forth some of the most innovative topics and elucidates the unexplored aspects of this field. This text is a compilation of chapters that discuss the most vital concepts and emerging trends in this area. As this field is emerging at a rapid pace, the researches presented in this book will help the readers understand the modern approaches and applications of supply chain and its management. It will serve as a valuable source of reference for graduate and post graduate students.

Trade

Rupert Fry

ISBN: 978-1-63240-575-3
$137.95 US
2016
Book Size: 8.5”x11”
215pp./Colored
Hardback

International Trade and Management

International trade is the exchange of goods and services across international borders. Global trade gives countries and organizations the opportunity to foray into new markets and increase profits. Rapid industrialization and technological advances have majorly contributed towards the progress of international trade. This extensive book picks up individual branches and explains their need and contribution in the context of a growing economy. It studies, analyses and upholds the pillars of this field and its utmost significance in modern times. This book presents researches and studies performed by experts across the globe. The topics included in this book are bound to provide incredible insights to readers. It will help the readers in keeping pace with the rapid changes in this field. This book is a resource guide for experts as well as students.

Tourism

Trent Powell

ISBN: 978-1-63240-572-2
$132.95 US
2016
Book Size: 8.5”x11”
196pp./Colored
Hardback

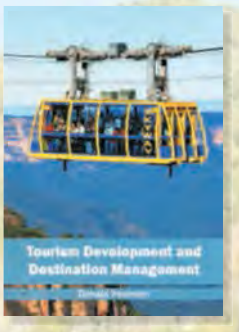
International Tourism: Planning and Management

This book traces the progress of the field of international tourism and it highlights some of the key concepts and various planning and management methods associated with this area. International tourism has become a vital source of income for countries around the globe. The rapid growth of the tourism sector demands better planning and efficient management. This book will give in-depth knowledge about the varied management techniques and diverse strategies related to this field. It will discuss in detail the policy instruments and organizational structures of planning and implementation. Those with an interest and an eye for detail will find this text full of crucial information. Students, managers, practitioners, policy makers and others interested in international tourism will benefit alike from this book.

Tourism

Donald Peterson

ISBN: 978-1-63240-565-4
$143.95 US
2016
Book Size: 8.5”x11”
237pp./Colored
Hardback



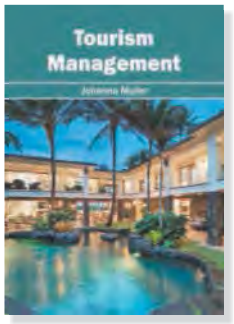
Tourism Development and Destination Management

Tourism falls under the service industry and refers to the practice of travelling for pleasure. It is a rapidly growing industry and plays a significant role in the economy of a country. It involves stimulating interest, entertaining and accommodating tourists from all over the world. International tourism brings in foreign exchange and good reputation for a country. Destination management is an important part of tourism and includes business permits, zoning controls, business association initiatives and land use planning. This book covers in detail some existent theories and innovative concepts revolving around tourism development and destination management. It is a vital tool for all researching and studying this field. The extensive content of this book provides the readers with a thorough understanding of the subject. Different approaches, evaluations and advanced studies have been included in this text. It picks up individual branches and explains their need and contribution in the context of a growing economy. This book is a resource guide for experts as well as students.

Tourism

Johanna Muller

ISBN: 978-1-63240-571-5
$132.95 US
2016
Book Size: 8.5”x11”
198pp./Colored
Hardback



Tourism Management

Tourism is a key source of income for many regions of the world. It refers to the practice of travelling to different locations for enjoyment and experience. Tourism management encompasses attracting, accommodating and entertaining tourists. This activity may result in substantial addition to the foreign exchange reserves and as well as add to the reputation of a country. This book traces the progress of this field and highlights some of its key concepts and applications. It consists of contributions made by international experts. This book also includes some of the vital pieces of work being conducted across the world, on various topics related to tourism management. The various studies that have transformed this discipline have been presented herein. Students, researchers, experts and all associated with tourism and its management will benefit alike from this book.

Information and Knowledge Engineering

Anthony White

ISBN: 978-1-63240-557-9
$154.95 US
2016
Book Size: 8.5”x11”
300pp./Colored
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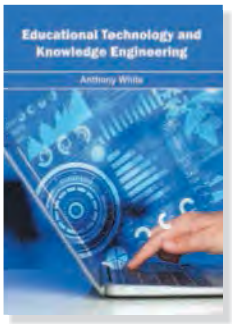

Educational Technology and Knowledge Engineering

This book covers in detail some existent theories and innovative concepts revolving around educational technology and knowledge engineering. It explores all the important aspects of this field in the present day scenario. Educational technology refers to the practice of promoting learning and enhancing performance by implementing, managing and designing apt technological methods and resources. Knowledge engineering is a part of artificial intelligence, which falls under educational technology. It deals with developing computer systems that have abundant knowledge, reasoning ability and mechanism. Both of these fields work towards making learning more accessible. The objective of this book is to provide in-depth knowledge about the various applications and methods of these subjects. Some of the diverse topics covered in this text address the varied branches that fall under this category. This book is appropriate for students seeking detailed information in this area as well as for experts.

Information and Knowledge Engineering

Anthony White

ISBN: 978-1-63240-556-2
$154.95 US
2016
Book Size: 8.5”x11”
286pp./Colored
Hardback

Knowledge Management for Organizations

Knowledge management is a process that requires a multidisciplinary approach to accumulate, interpret and share organizational knowledge. This discipline is applicable to management, information systems, computer science, public health, business administration, information sciences, etc. In the present times, knowledge is the competitive advantage for any organization whether local or global. There has been rapid progress in this area and its applications are finding their way across multiple industries. This book includes contributions of experts and scientists which will provide innovative insights into this field. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of knowledge management. This book is appropriate for students seeking detailed information in this area as well as for experts.

Education

Daphne Hopkins

ISBN: 978-1-63240-542-5
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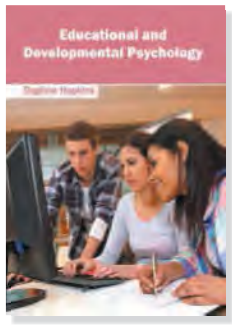

Educational and Developmental Psychology

This book provides comprehensive insights into the field of educational and development psychology. As the world is growing rapidly with new technological advances, the field of psychology also is matching this pace. This branch of psychology deals with the studies related to human learning, the processes related with it; from both cognitive and behavioral point of view. It also studies the concepts and foundations of human developments in a course of one life span. The extensive content of this book will insure that readers get a thorough knowledge of this field and are able to broaden their perspective in the field of educational and development psychology. Some of the diverse topics covered in this book address the varied branches that fall under this category. It aims to serve as a resource guide for psychologists, educationists, students and experts alike.

Education

Charlie Carson

ISBN: 978-1-63240-555-5
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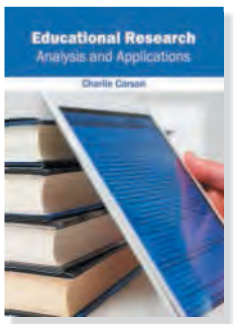

Educational Research: Analysis and Applications

Educational research is mainly focused on finding a solution of an already existing problem. It is a multidisciplinary field that includes anthropology, philosophy, sociology and psychology. The broad areas that are covered under this discipline are assessment of learning, training, teaching methods, classroom dynamics, etc. There are different types of research methods employed in this field to get first hand data and accurate results such as descriptive survey research, experimental research, causal research, meta-analysis, correlational research, phenomenological research, etc. This book, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this area at various levels. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge. Some of the diverse topics covered in this book address the varied branches that fall under this category. Different approaches, evaluations, methodologies and advanced studies in the field of educational research have been included herein.

Education

Calton Reed

ISBN: 978-1-63240-543-2
$154.95 US
2016
Book Size: 8.5”x11”
289pp./Colored
Hardback

International Education and Globalization

This book traces the progress in the field of international education and globalization and highlights some of its key concepts and theories. As a branch of education, international education refers to the practice of using student exchange programs, virtual exchange programs, sending students to study in the international branch campus, etc. in order to ascertain the belief of education that transcends national borders. Globalization has aided this concept and has provided means to make it possible. This practice includes teaching multiple languages, awareness about different regions and cultures, developing skills to work in a multi-cultural environment, etc. This book elucidates the new methods and innovative models around prospective developments with respect to this field. It is a compilation of chapters that discuss the most vital concepts and emerging trends in this area. This book provides comprehensive insights into the field of international education along with its techniques and progress. It will serve as a reference to a broad spectrum of readers including educationists, teachers, policy makers, professionals, scholars and students.

Education

Charlie Carson

ISBN: 978-1-63240-554-8
$152.95 US
2016
Book Size: 8.5”x11”
261pp./Colored
Hardback

Trends, Techniques and Methodologies in Education

This book provides comprehensive insights into the field of education, its emerging trends, techniques and methodologies in detail. It includes detailed explanations of various concepts and applications of this area. Educational methods generally include teacher training, classroom dynamics, student learning and teaching techniques. The various subjects integrated in this discipline are anthropology, philosophy, psychology and sociology. It has two approaches namely basic approach and applied approach and has two methodologies, which are scientific and combination methods. This book gives in-depth knowledge about these and other modules emerging in education. The various sub-fields along with technological progress that have future implications are discussed in this book. Students, teachers, educationalists, researchers and all those with an eye for detail and interest in this field will find this text beneficial.

Urban Studies

Dominque Craft

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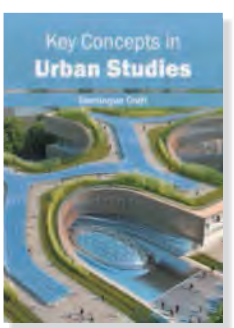

Key Concepts in Urban Studies

This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of urban studies. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Urban study refers to an interdisciplinary study of the historical, geographical, economic, social and cultural phenomenon of cities and communities. It implements the approaches of sociology and political science to help in improving the urban environment. The various studies that are constantly contributing towards the evolution of this field are examined in detail in this book. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of this field. Researchers, ecologists, sociologists, and students will be assisted by this book.

Urban Studies

Chayma Hamdani

ISBN: 978-1-63240-563-0
$137.95 US
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Book Size: 8.5”x11”
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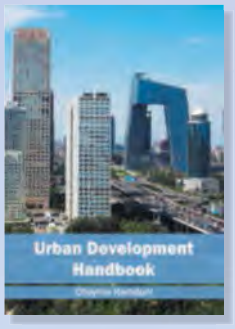
Hardback



Urban Development Handbook

The objective of this book is to give a general view of the different areas of urban development and its applications. It includes some of the vital pieces of work being conducted across the world on various topics related to this field. Urban development refers to the process of integrating sustainably into the use of land and environmental resources, making laws for public welfare, developing the infrastructure; and facilitating transportation, education, judicial system, health organizations, etc. in order to develop the community. It deals with planning and designing new and advanced communities without harming the natural biodiversity. This book will discuss in detail the various branches related to urban development like land use planning, re-development, urban design, comprehensive planning, etc. Different approaches, evaluations, methodologies and advanced studies on this subject have been included in it. This text will prove to be immensely beneficial to students and researchers in this field.

Urban Studies

Chayma Hamdani

ISBN: 978-1-63240-562-3
$137.95 US
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Book Size: 8.5”x11”
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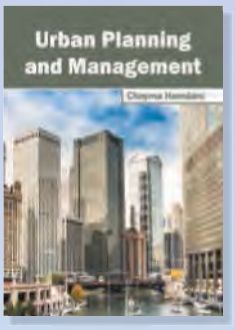
Hardback



Urban Planning and Management

Urban planning is a process mainly concerned with design of urban environment, land use, and construction of infrastructure including communication, transportation and distribution networks. It ensures well planned and orderly development of settlements and communities. This is a multidisciplinary field that encompasses civil engineering, architecture and public administration. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of urban planning and management. It aims to present researches that have transformed this discipline and aided its advancement. Different approaches, evaluations, methodologies and advanced studies have been included in this book. Researchers and students actively engaged in this field will find this book full of crucial and unexplored concepts.

Urban Studies

Dominque Craft

ISBN: 978-1-63240-561-6
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2016
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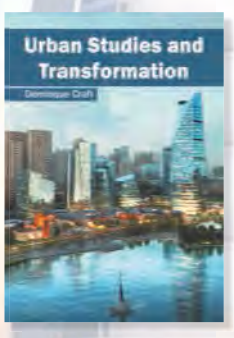
Hardback



Urban Studies and Transformation

This book elucidates the concepts and innovative models around prospective developments with respect to urban studies and related transformation. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Urban studies is mainly concerned with the sustainable use of land and environment including water, air and infrastructure. This book includes latest studies on urban planning and development. It includes researches and case studies from across the globe to provide the readers with a global outlook on the recent progress of this discipline. Through this book, we attempt to further enlighten the readers about the new concepts in this field. It aims to serve as an essential guide for students and experts alike and contribute to the growth of the discipline.

Business, Management and Economics

Rita Lamotta

ISBN: 978-1-63240-172-4
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback

Encyclopedia of Business and Industrial Management: Volume I

Every sphere of life requires management. Industrial and business management is crucial for running a successful enterprise. For all readers who’re interested in this discipline, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding of industrial and business management. This book will also provide interesting topics for research which interested readers can take up.

Business, Management and Economics

Rita Lamotta

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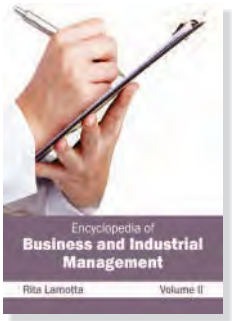

Encyclopedia of Business and Industrial Management: Volume II

Every sphere of life requires management. Industrial and business management is crucial for running a successful enterprise. For all readers who’re interested in this discipline, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding of industrial and business management. This book will also provide interesting topics for research which interested readers can take up.

Business, Management and Economics

Rita Lamotta

ISBN: 978-1-63240-174-8
$149.95 US
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Book Size: 8.5”x11”
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Hardback

Encyclopedia of Business and Industrial Management: Volume III

Every sphere of life requires management. Industrial and business management is crucial for running a successful enterprise. For all readers who’re interested in this discipline, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding of industrial and business management. This book will also provide interesting topics for research which interested readers can take up.

Business, Management and Economics

Rita Lamotta

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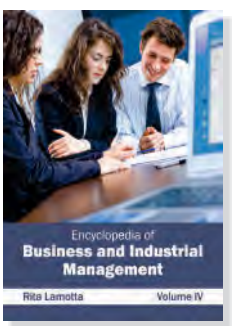
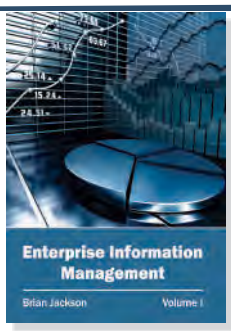


Encyclopedia of Business and Industrial Management: Volume IV

Every sphere of life requires management. Industrial and business management is crucial for running a successful enterprise. For all readers who’re interested in this discipline, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding of industrial and business management. This book will also provide interesting topics for research which interested readers can take up.

Business, Management and Economics



Volume I

Brian Jackson

ISBN: 978-1-63240-216-5
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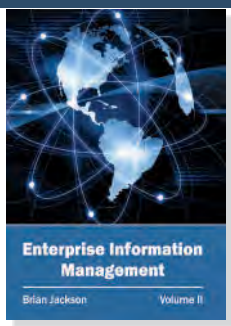
Enterprise Information Management

Information management is a crucial part of today’s internet driven era. Information management has been transformed with the latest technological interventions. This has opened new avenues in this field, which had not existed before. This book includes all the recent trends and studies ongoing in this discipline. It aims to be a resource guide for all looking for advanced knowledge in this discipline.



Volume II

Brian Jackson

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Volume III

Brian Jackson

ISBN: 978-1-63240-218-9
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Book Size: 8.5”x11”
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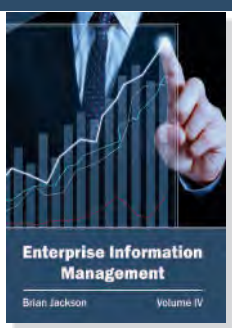

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Brian Jackson

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Business, Management and Economics

Perry Stinson

ISBN: 978-1-63240-373-5
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Hardback

New Concepts in Investment and Technology: Volume I

Technology is a dynamic field in itself. It is constantly evolving and new innovations are occurring across the globe. For all readers who’re interested in this discipline, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding of technology and investment. This book will provide interesting topics for research which interested students and researchers can take up.

Business, Management and Economics

Perry Stinson

ISBN: 978-1-63240-374-2
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Hardback

New Concepts in Investment and Technology: Volume II

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Business, Management and Economics

Perry Stinson

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Perry Stinson

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Business Management

Volume 01

Anthony Rocus

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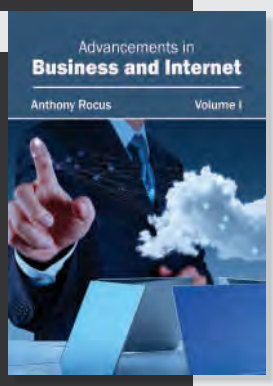

Advancements in Business and Internet

The future of everything lies in the internet. With the advancement of technology, internet has become an indispensable part of every economy. This book elucidates the concepts and innovative models around prospective business developments with respect to internet. The researches included in this book on iBusiness are latest and bound to provide incredible insights to readers.

Volume 02

Anthony Rocus

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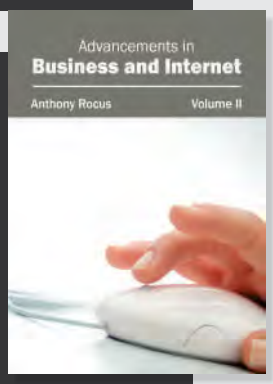

Advancements in Business and Internet

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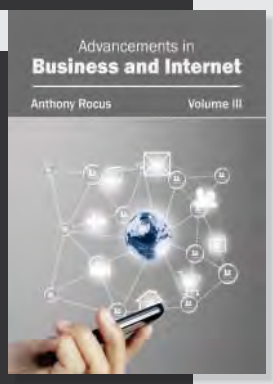

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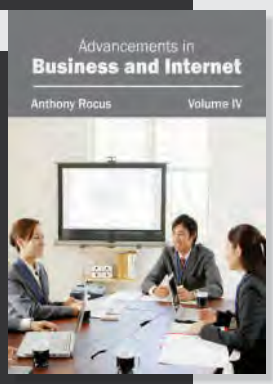

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Business Management

Volume 05

Anthony Rocus

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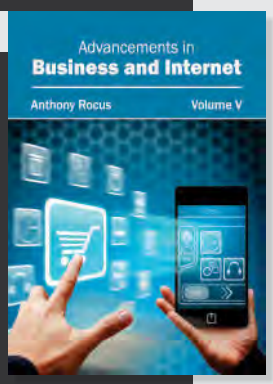

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Volume 06

Anthony Rocus

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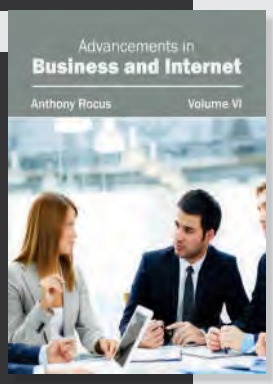

Advancements in Business and Internet

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Volume 07

Anthony Rocus

ISBN: 978-1-63240-040-6
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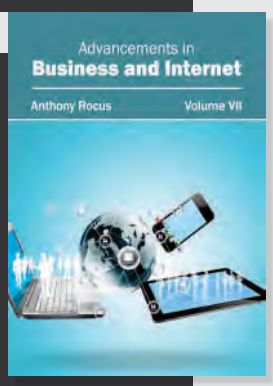

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Business Management

Terry Ness

ISBN: 978-1-63240-091-8
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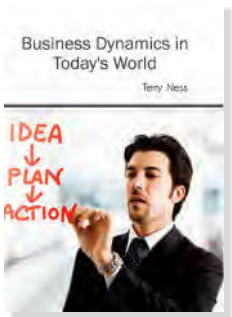

Business Dynamics in Today's World

This book is a concise introduction to 21st century’s business dynamics. In the contemporary times of both prospect and turmoil, business firms need to acquaint themselves with new competencies that were never considered before. For this cause, this book is a valuable resource as it presents latest insights into new issues in the features of performance and excellence development, networking and logistics in the organized world, as well as advancements in financial and economic environment surrounding private enterprises today. It should be an enjoyable read to all those who are interested in the constantly changing dynamics of business and economics. The content has been delivered in a precise, transparent and to-the-point manner.

Business Management

Brian Hurley

ISBN: 978-1-63240-323-0
$119.95 US
2015
Book Size: 6”x9”
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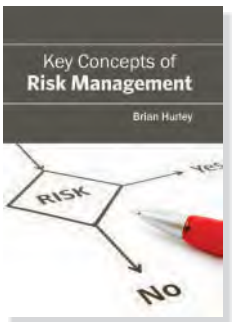


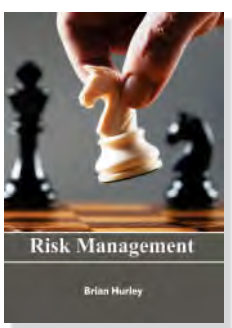
Key Concepts of Risk Management

Business and judgment involve a definite amount of risk. Risk might cause loss to the company; this does not denote that businesses cannot take risks. Distancing and risk animosity may result in missed business opportunities, which, in turn, will lead to slower development and reduced success of a company. In today's complex and varied environment, it is vital to find the correct balance between risk aversion and risk taking. To do this, it is necessary to comprehend the complex, out of the whole range of financial, technological, operational, ecological and communal risks connected with the company's activities. Risk management is the classification, appraisal, and prioritization of risks. This book examines risk management practice across different projects and industries, and discusses emerging issues related to climate change and climate risk management.

Business Management

Brian Hurley

ISBN: 978-1-63240-453-4
$144.95 US
2015
Book Size: 6”x9”
324pp./Colored
Hardback



Risk Management

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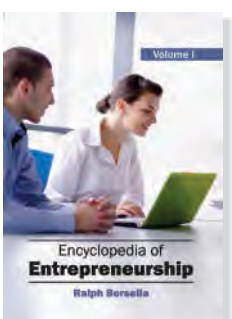
Entrepreneurship

Ralph Borsella

ISBN: 978-1-63240-184-7
$144.95 US
2015
Book Size: 6”x9”
306pp./Colored
Hardback



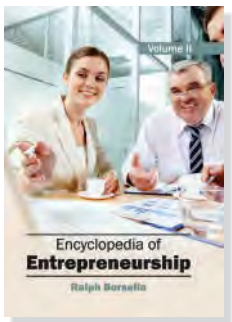
Encyclopedia of Entrepreneurship: Volume 1

Entrepreneurship is defined as the process of identifying and starting a new business venture based on a novel and innovative idea. Economic development and social dynamics are driven by entrepreneurship till a vast extent. However, several important factors like the gender of the entrepreneur, geological location or the social background may have an incredible impact on the chances of one becoming an entrepreneur. This book is a compilation of well researched data worked upon by renowned experts around the globe. This book takes a look at entrepreneurship from various perspectives including gender, social and geographic point of views.

Entrepreneurship

Ralph Borsella

ISBN: 978-1-63240-185-4
$144.95 US
2015
Book Size: 6”x9”
348pp./Colored
Hardback



Encyclopedia of Entrepreneurship: Volume 2

This book provides a comprehensive study about Entrepreneurship. Entrepreneurship vastly affects the economic development of a nation. Predictably, many public policies encourage the growth of self-entrepreneurship during periods of unemployment; admire the formation of firms; and view the enthusiasm to start new ventures as a sign of fine fortune. Is this nature inherent to humans and their psychology, or can students, or even adults, be trained to become entrepreneurs? What should be the role of institutions of higher education, of strategy makers, and how much does it affect a nation? This book answers all the above stated questions through the research work presented within the book. There is a special focus on certain aspects which include psychology, role of academics and economic impact of entrepreneurship.

Entrepreneurship

Ralph Borsella

ISBN: 978-1-63240-186-1
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Book Size: 6”x9”
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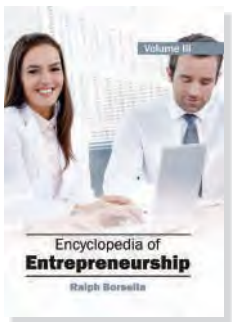
Hardback



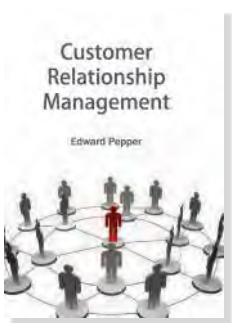
Encyclopedia of Entrepreneurship: Volume 3

The significance of entrepreneurship and advanced information related to the field has been provided in this comprehensive book. According to Austrian economist Joseph Schumpeter, the major difference between an entrepreneur and a manager lies in the entrepreneur's ideas, originality and visualization of the world. It is these special characteristics which facilitate entrepreneurs to generate new combinations, to modify existing business models and to improvise. These innovations can take quite a few forms: products, processes, and organizations. In this book, experts from around the world have viewed and analyzed the visions and actions of innovative entrepreneurs as a source of new ideas to facilitate friendly ties between different agents for changing the existing business structures.

Management

Edward Pepper

ISBN: 978-1-63240-131-1
$94.95 US
2015
Book Size: 6”x9”
157pp./Colored
Hardback



Customer Relationship Management

Customer relationship management (CRM) techniques have become more and more significant globally due to changes in expectations from customers as well as changes in the personality of markets. This book puts forward a conceptualization that attempts to not only outline CRM's domain but also to resolve the different perspectives found in educational and popular literature. The book presents assessable data - containing examples which show how the theory is applied with great success via a variety of real-life examples. This book includes inventive proven methods and will benefit anyone dealing with customers, whether directly or indirectly.

Management

Anthony White

ISBN: 978-1-63240-379-7
$159.95 US
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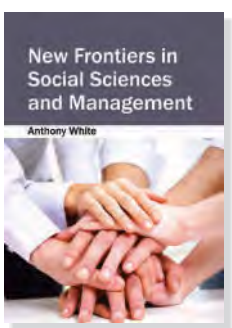

New Frontiers in Social Sciences and Management

This book is designed to facilitate the basic understanding and advancements in social sciences. The book is an exclusive and innovative compilation of questions and answers coming from higher education institutions on varied fields, and across a broad range of countries and cultures. It creates routes for additional innovation, association amidst the sciences, humanities, and the private and public sectors of society. The chapters speak across socio-cultural concerns, learning, interests and creative sectors under the common wish for straight responses in more efficient ways by means of communication across societal structures.

Time Management

Rupert Paul

ISBN: 978-1-63240-495-4
$79.95 US
2015
Book Size: 6”x9”
117pp./Colored
Hardback

Time Management

Time management is an essential aspect of life. This book elucidates the concept of time management with the help of comprehensive information. Time management is essential for effective functioning of numerous human activities. It holds significant relevance to different problems associated with assessment of available resources, scheduling of decisions, goal definition, and control of management policies. This book is an attempt to describe the decision making procedure in time management for distinct success stories, which can be used as reference models by interested readers.

Quality Management

Stacy Escobar

ISBN: 978-1-63240-496-1
$144.95 US
2015
Book Size: 6”x9”
308pp./Colored
Hardback

Total Quality Management and Six Sigma

This book comprehensively discusses the concept of total quality management and six sigma. Survival in an ambitious and modern environment requires the organizations to cautiously organize their activities related to quality management. Total Quality Management (TQM) and Six Sigma are the techniques that have been successful in resolving complex quality problems in services and products. The aim of this book is to serve as a valuable reference for practitioners, academicians and students across various disciplines and help those interested in the field of quality management to comprehend core ideas and recent innovative efforts being made in this field.

Service Management

Andy Mathews

ISBN: 978-1-63240-462-6
$149.95 US
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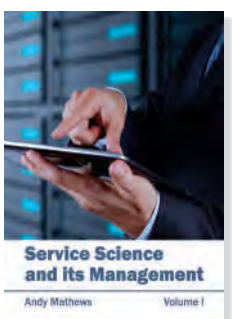
Book Size: 8.5”x11”
214pp./Colored
Hardback



Service Science and its Management: Volume I

As the industrial sector has undergone development, it has also undergone a shift. It is now a customer centric industry. Thus service is of the essence. Therefore the discipline of service science and management has become of major interest for experts and researchers across the globe. For all those who’re interested in service science and management, this book can prove to be an essential guide.

Service Management

Andy Mathews

ISBN: 978-1-63240-463-3
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback

Service Science and its Management: Volume II

As the industrial sector has undergone development, it has also undergone a shift. It is now a customer centric industry. Thus service is of the essence. Therefore the discipline of service science and management has become of major interest for experts and researchers across the globe. For all those who’re interested in service science and management, this book can prove to be an essential guide.

Service Management

Andy Mathews

ISBN: 978-1-63240-464-0
$149.95 US
2015
Book Size: 8.5”x11”
220pp./Colored
Hardback

Service Science and its Management: Volume III

As the industrial sector has undergone development, it has also undergone a shift. It is now a customer centric industry. Thus service is of the essence. Therefore the discipline of service science and management has become of major interest for experts and researchers across the globe. For all those who’re interested in service science and management, this book can prove to be an essential guide.

Supply Chain Management

Bruce Robinson

ISBN: 978-1-63240-474-9
$109.95 US
2015
Book Size: 6”x9”
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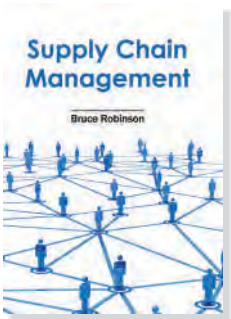
Hardback



Supply Chain Management

Over the past few years supply chain administration has moved on from warehouse and logistics to strategic management. Integrating conjectures and researches of supply chain administration, this book includes practical literature on topics like value creation, supply chain management and mass-customization. These topics symbolize key building blocks in administration decisions and underline the rising significance of the supply chains supporting the global economy. The treatment focuses on how to build a competitive supply chain using practical management techniques, operational models, and information skill. It contains a core discussion on supply chain management, collaborative preparation, advanced arrangement and budgeting system, risk supervision and new initiatives such as incorporating anthropometry into the design of products.

Mathematical Finance

Isabelle Maxwell

ISBN: 978-1-63240-337-7
$149.95 US
2015
Book Size: 8.5”x11”
208pp./Colored
Hardback

Mathematical Finance: Volume I

Mathematical finance is an interdisciplinary field of study. It combines the principles of mathematics and finance and develops interesting new concepts. This book includes some of the recent work being done across the world, on various topics related to mathematical finance. This book will prove to be a valuable resource for all those interested in this area.

Mathematical Finance

Isabelle Maxwell

ISBN: 978-1-63240-338-4
$149.95 US
2015
Book Size: 8.5”x11”
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Hardback

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Mathematical Finance

Isabelle Maxwell

ISBN: 978-1-63240-339-1
$149.95 US
2015
Book Size: 8.5”x11”
201pp./Colored
Hardback

Mathematical Finance: Volume III

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Mathematical Finance

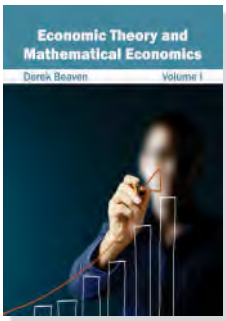
Isabelle Maxwell

ISBN: 978-1-63240-340-7
$149.95 US
2015
Book Size: 8.5”x11”
219pp./Colored
Hardback

Mathematical Finance: Volume IV

Mathematical finance is an interdisciplinary field of study. It combines the principles of mathematics and finance and develops interesting new concepts. This book includes some of the recent work being done across the world, on various topics related to mathematical finance. This book will prove to be a valuable resource for all those interested in this area.

Economics



Derek Beaven

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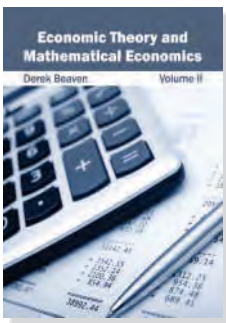
Economic Theory and Mathematical Economics — Volume I

Economics is a broad field of study with a multidisciplinary approach. This book is a vital tool for all researching or studying Theoretical Economics as it gives incredible insights into contemporary trends and recent topics. Latest researches on the same have also been included in this book.



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Economic Theory and Mathematical Economics — Volume II

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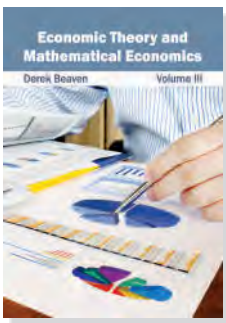

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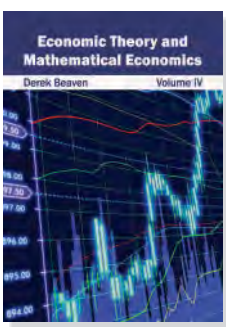

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Economic Theory and Mathematical Economics — Volume IV

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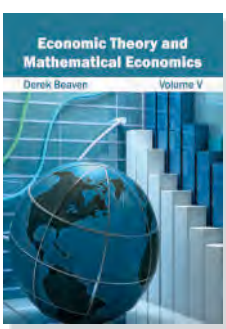

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Year 2015
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Economic Theory and Mathematical Economics — Volume V

Economics is a broad field of study with a multidisciplinary approach. This book is a vital tool for all researching or studying Theoretical Economics as it gives incredible insights into contemporary trends and recent topics. Latest researches on the same have also been included in this book.

Economics

Swena Lesley

ISBN: 978-1-63240-162-5
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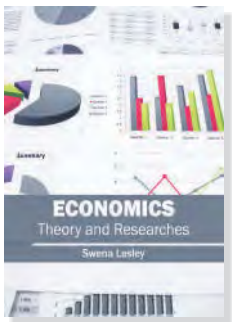

Economics: Theory and Researches

This book attempts to lay out certain national and global economic scenarios and explanations for said scenarios as well as looks toward the future of such economic models for the global populace. Macroeconomics and Microeconomics are tackled and laid out so as to be understood at an advanced level. Theories that encompass economics are explained so as to help elucidate new and proposed policies in this field of study. Students and researchers in the field of economics will find this book helpful.

Economics

Derek Beaven

ISBN: 978-1-63240-362-9
$149.95 US
2015
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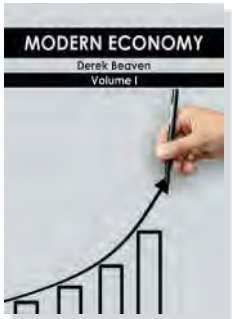
208pp./Colored
Hardback



Modern Economy: Volume I

Any economy functions on various variable factors, which have been discussed in this book. This book includes all the latest approaches to modern economy from all across the world. The presented researches help to understand the different patterns and issues which every economy suffers. It is a comprehensive guide to all interested students and experts alike.

Economics

Derek Beaven

ISBN: 978-1-63240-363-6
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2015
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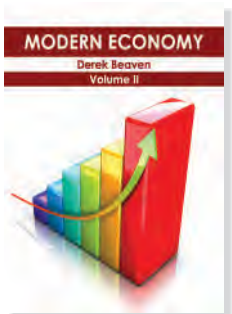

Modern Economy: Volume II

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Economics

Derek Beaven

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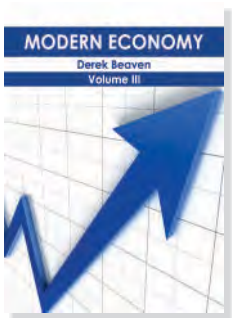

Modern Economy: Volume III

Any economy functions on various variable factors, which have been discussed in this book. This book includes all the latest approaches to modern economy from all across the world. The presented researches help to understand the different patterns and issues which every economy suffers. It is a comprehensive guide to all interested students and experts alike.

Economics

Derek Beaven

ISBN: 978-1-63240-365-0
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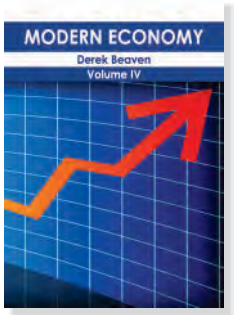

Modern Economy: Volume IV

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Economics

Swena Lesley

ISBN: 978-1-63240-382-7
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback

New Insights into Economic Research: Volume I

Since the applications of economic theories in the real world are innumerable, constant research on new theories is on the rise. This book attempts to understand the multiple concepts and their applications that fall under the field of economics and how such research can be useful in our lives. The various studies that are constantly contributing towards advancing technologies and the evolution of this field are discussed in detail. Those in search of information to further their knowledge of this field will be assisted by this book.

Economics

Swena Lesley

ISBN: 978-1-63240-383-4
$149.95 US
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215pp./Colored
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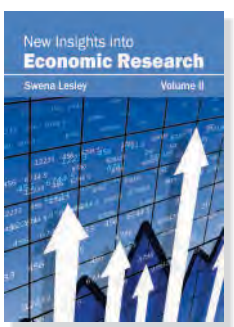

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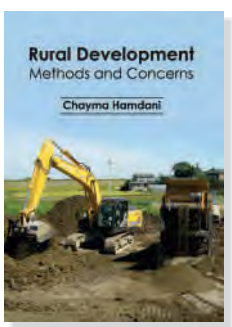
Economics

Chayma Hamdani

ISBN: 978-1-63240-457-2
$159.95 US
2015
Book Size: 6”x9”
422pp./Colored
Hardback



Rural Development: Methods and Concerns

There are varied approaches followed globally for rural development. Progress of rural areas has witnessed rising consideration internationally, particularly over the past few decades. The peak in the renewed global interest in the progress of rural people and their environment was reached with the establishment of the Millennium Development Goals (MDGs) in the year 2000. All of the set objectives are mostly rural improvement goals. With less than four years to the closing date for the attainment of the MDGs, it is almost definite that the goals are far from being achieved, particularly in the rising countries for which the MDGs were fundamentally set. This book not only looks at rural growth from its multi-dimensional perspectives, it is also a product of the experiences and expertise of well-known researchers. This book is a precious source of useful information on modern issues in rural improvement for researchers, policy makers and students of rural growth and other related fields.

Trade

Rupert Fry

ISBN: 978-1-63240-320-9
$119.95 US
2015
Book Size: 6”x9”
266pp./Colored
Hardback

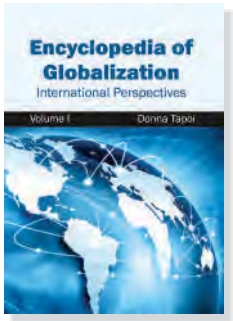
International Trade

International trade is a significant contributor to GDP. Current international trade is drastically more complex and imbalanced. The change in information and communication technologies promoted the globalization of supply chains which produced a nexus between trade, investment and services, which is at the heart of current global trade. The high amount of change has produced a hesitation that now demands new global trade systems - a new set of rules for the new environment. This book deals with some of the unsettled problems in global trade that will carry on into the upcoming decades.

Globalization

Donna Tapoi

ISBN: 978-1-63240-187-8
$144.95 US
2015
Book Size: 6”x9”
309pp./Colored
Hardback



Encyclopedia of Globalization: International Perspectives Volume I

Globalization has brought the world closer. This book is a compilation of varied perspectives and approaches of globalization. The book presents a series of global problems that range from historic to modern, from international to local, and from cultural to institutional. Basically, this book deals with topics like globalization program, globalization strategies and globalization incidents. The value of this book lies in its variety, and it will be beneficial for a global society of scholars and experts.

Globalization

Donna Tapoi

ISBN: 978-1-63240-188-5
$149.95 US
2015
Book Size: 6”x9”
352pp./Colored
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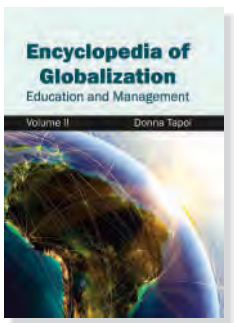


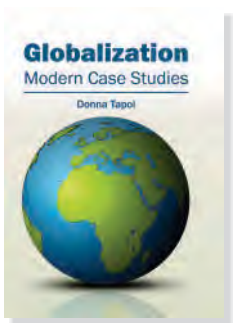
Encyclopedia of Globalization: Education and Management Volume II

This book is a well-structured and critically acclaimed resource with a comprehensive eye on Globalization. It is an ambitious attempt to present multifaceted approaches to global problems. This book primarily deals with three major aspects related to Globalization; Education, Management and the Firm. The contributors of this book represent a global research culture which is diverse and evolving. It is a dynamic and a well-researched book, and provides the readers with some unique agendas and exceptional methodological approaches provided by the researchers. This book intends to help students and experts in accomplishing their respective researches by providing some useful data as its greatest asset lies in its variety and novelty.

Globalization

Donna Tapoi

ISBN: 978-1-63240-251-6
$94.95 US
2015
Book Size: 6”x9”
177pp./Colored
Hardback



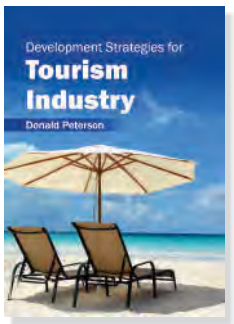
Globalization: Modern Case Studies

Globalization is an important factor contributing to the world’s active economy. This book presents some vibrant and dynamic terminology being associated with globalization. They demonstrate that globalization contains not only an objective procedure, but also a number of statements that describe and examine the diverse experiences of the procedure. The data in this book has been compiled by experts and researchers from diverse educational disciplines and cultures. Various researches on the repercussions of globalization have been discussed in this text, beginning from the multicultural and communal epistemology to principles of liability.

Tourism

Donald Peterson

ISBN: 978-1-63240-139-7
$109.95 US
2015
Book Size: 6”x9”
219pp./Colored
Hardback



Development Strategies for Tourism Industry

Tourism is a major economic contributor. This book provides extensive information regarding the strategies adopted by stake holders in the tourism industry. We have been witnessing huge competition among the organizations in the business world. Companies are looking for resourceful methods to participate in the global tourism market. In business, the major objective is to make profit. However, if the focus is only on profit, it will not to be easy for them to succeed. It is more significant for organizations to find out how to make a well-built strategy in order to be more competitive in the marketplace. More and more organizations have been using pioneering approaches to reinforce their position. Creative working enables organizations to make their position more competitive and be more value-oriented in the global tourism industry. This book is a compilation of various case studies regarding the impact of tourism business strategies accomplished over the years. It presents case studies which illustrate diverse development strategies viable for tourism industries.

Tourism

Donald Peterson

ISBN: 978-1-63240-205-9
$159.95 US
2015
Book Size: 6”x9”
406pp./Colored
Hardback

Encyclopedia of Tourism
Industrial Strategies

Tourism has emerged as a significant contributor to world economies. This book provides a detailed analysis of the emerging trends, strategies and challenges of the tourism industry. It is considered a good business practice for the tourism industry to support their micro and macro environment via strategic perspectives. This is essential because we cannot consider companies existing without their environment. If companies do not engage themselves in such commissions, they are in hazard of isolating themselves from the shareholder. That, in turn, creates difficulties for mobilizing new ideas and receiving feedback from their environment. This book is a compilation of various case studies and researches accomplished by experts.

Tourism

Donald Peterson

ISBN: 978-1-63240-479-4
$119.95 US
2015
Book Size: 6”x9”
282pp./Colored
Hardback

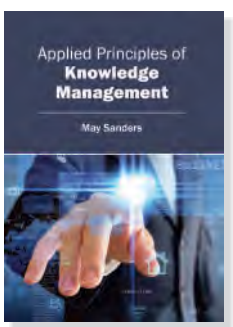
Sustenance and Development of Tourism Industry

Tourism has evolved as a self-sustaining industry around the globe with a huge turnover. We have been witnessing huge competition among the organizations in the business world. Companies are looking for resourceful methods to participate in the global tourism market. In business, the major objective is to make profit. However, if the focus is only on profit, it will not to be easy for them to succeed. It is more significant for organizations to find out how to make a well-built strategy in order to be more competitive in the marketplace. Creative working enables organizations to make their position more competitive and be more value-oriented in the global tourism industry. This book is a compilation of various case studies regarding the impact of tourism business strategies accomplished over the years. It provides various strategies for the sustenance and development of the global tourism industry.

Information & Knowledge Engineering

May Sanders

ISBN: 978-1-63240-068-0
$119.95 US
2015
Book Size: 6”x9”
254pp./Colored
Hardback



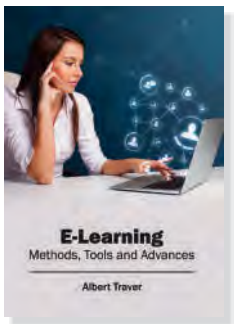
Applied Principles of Knowledge Management

Various applied principles of knowledge management are elucidated in this profound book. The developments of mobile and Web 2.0 technology have led to an enhancement in the speed of knowledge transfer, storage and retrieval. Additionally, there have been several novel and intriguing findings in the research field of knowledge management over the past few years. The aim of this book is to acquaint the readers with latest research topics in this field. This book presents novel KM technologies and systems along with an elucidation on their potential applications in various fields. The book intends to provide important information regarding novel research trends in latest knowledge management studies, and serves as an efficient source of knowledge for a broad spectrum of readers including teachers, students and researchers, as well as for the development of practices in this field.

Information & Knowledge Engineering

Albert Traver

ISBN: 978-1-63240-167-0
$144.95 US
2015
Book Size: 6”x9”
344pp./Colored
Hardback



E-Learning: Methods, Tools and Advances

This book provides an insight into the latest technological advancements in the fast emerging domain of E-learning. With the resources provided by communication technologies, E-learning has been adopted by many universities and also by various training centers and schools. This book provides a systematic compilation of various topics related to the subject and emphasizes on the importance of E-learning. It reflects the progress of E-learning, with discussion about tools, techniques, improvements and potentials for long-distance learning. The book is dedicated to methodologies and tools employed for E-learning, keeping in mind collaborative methodologies and specific environments. It also provides an analysis on E-learning, highlighting researches about E-learning features and assessment of different methodologies. Lastly, it discusses recent advancements in E-learning, stressing on topics like knowledge enhancement in virtual environments, novel schemes for architectures in tutorial systems and presenting various case studies.

Information & Knowledge Engineering

May Sanders

ISBN: 978-1-63240-324-7
$109.95 US
2015
Book Size: 6”x9”
240pp./Colored
Hardback

Knowledge Management: Advanced Researches

Knowledge management (KM) involves storage, development, sharing and effective utilization of knowledge generated in an organizational or structural framework. The developments of mobile and Web 2.0 technologies have led to an enhancement in the speed of knowledge transfer, storage and retrieval. Over the past few years, there have been several novel and intriguing findings in the research field of knowledge management. This book aims at acquainting the readers with latest research topics in the field of knowledge management. It presents elucidation on the applications and potential of novel KM technologies and systems. This book serves as an efficient source of knowledge for a wide spectrum of readers including teachers, students and researchers in the development of practices in this domain.

Information & Knowledge Engineering

May Sanders

ISBN: 978-1-63240-355-1
$159.95 US
2015
Book Size: 6”x9”
440pp./Colored
Hardback

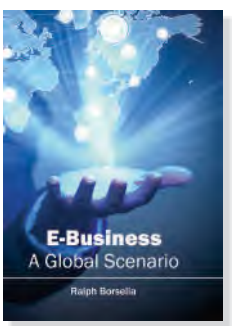
Models and Approaches of Knowledge Management

This book has been compiled to acquaint the readers with latest research topics in Knowledge Management (KM). KM is an intricate management process involving storage, management, sharing and effective utilization of organizational knowledge. Significant developments in mobile and Web 2.0 technologies have resulted in an improved speed of knowledge transfer, storage and retrieval. Lately, several novel and intriguing findings in the research field of knowledge management have been witnessed. This book presents novel KM technologies and systems, elucidating the applications and potential of these technologies. It aims at providing important information regarding novel research trends in latest KM studies, along with serving as an efficient source of knowledge for a wide range of readers including teachers, students and researchers and other readers interested in studying about knowledge management.

Web Engineering

Ralph Borsella

ISBN: 978-1-63240-156-4
$79.95 US
2015
Book Size: 6”x9”
147pp./Colored
Hardback



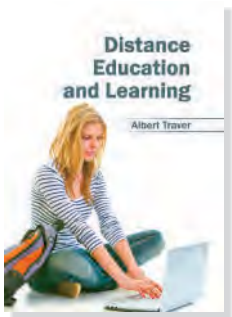
E-Business: A Global Scenario

This book consists of studies that employ empirical and theoretical/conceptual approaches to bring to the foreground global acceptance of electronic business (e-business) and other important applications and conceptualization in this field. As our expertise of the e-business phenomenon continues to develop and progress, it is relevant that new knowledge and information be made available. This book tries to give value to e-business researchers and practitioners, with knowledge derived from various regions of the world. This edited book encompasses a vast range of interesting, topical, and timely issues on the acceptance of e-business concepts to nonprofit organizations, and the formulation of a service innovation model that are referred from various sources of information. This book can be used as a reference for information seekers who want to comprehend arising conceptualization, processes, and behaviors in the e-business domain.

Education

Albert Traver

ISBN: 978-1-63240-148-9
$144.95 US
2015
Book Size: 6”x9”
344pp./Colored
Hardback



Distance Education and Learning

Education is an essential for an individual’s existence. This book, written by writers from different countries across five continents, is a compilation of global perspectives on distance learning implementations in higher education. The viewpoints are presented in the form of practical case studies of distance learning attainment, research studies on teaching and learning in distance learning surroundings, and theoretical frameworks for developing distance learning tools, courses and programs. This book discusses all the advantages of distance learning and will motivate it extensively among students.

Education

Albert Traver

ISBN: 978-1-63240-377-3
$119.95 US
2015
Book Size: 6”x9”
266pp./Colored
Hardback

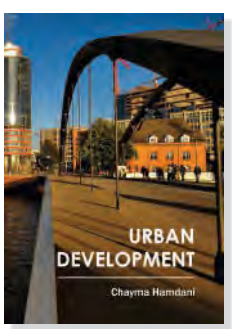
New Frontiers in Distance Education

This book elaborates the growing importance of education and contemporary solutions to make education accessible to most of the learners. Education has emerged as the primary commodity for socio-economic transformation for both developed as well as developing economies. Thus, the number of people going and returning to school has grown, making it difficult for existing brick and mortar learning institutes to handle this rising demand. Besides, most of lifelong learners do not have the time to turn into full-time students. Therefore, distance education is becoming the answer to the above mentioned challenges. It has been described as the mode of study wherein the learner is separated in time and space from the institute and tutors providing the tuition. The book will benefit aspiring students by introducing them with new advances in distance education.

Urban Studies

Chayma Hamdani

ISBN: 978-1-63240-509-8
$144.95 US
2015
Book Size: 6”x9”
308pp./Colored
Hardback



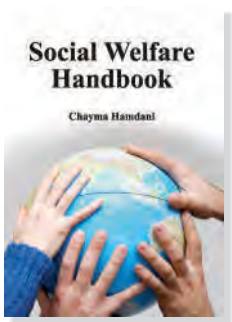
Urban Development

Urban planning plays a significant role in the development of nations. Cities are rising as never before and these days, it is assumed that at least 50% of the world's population lives in urban cities. This movement is projected to carry on, and at the same time, the problems in urban areas are also expected to increase. Urbanization constitutes a compound procedure linking problems with communal, financial, ecological and spatial proportions that need suitable solutions. This book highlights some of these problems and discusses potential solutions in terms of organization, planning and management.

Social Welfare

Chayma Hamdani

ISBN: 978-1-63240-468-8
$109.95 US
2015
Book Size: 6”x9”
227pp./Colored
Hardback



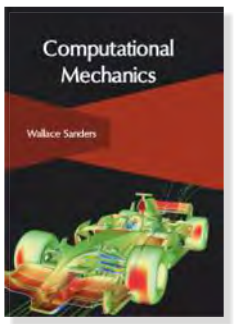
Social Welfare Handbook

Welfare is an essential aspect for the development of a nation. This book presents, for the first time, an extensive, internationally-focused collection of cutting-edge work from leading academics. Its multi-disciplinary approach and relative viewpoint encourages an examination of the most pressing social welfare issues of the day. The book intends to simplify some of the doubts regarding social welfare, and talks about the pros and cons of privatization. It presents a variety of social welfare paradoxes and innovations; and sets up a clear set of economic frameworks with which to comprehend the conditions under which the change in social welfare can be obtained.

Computer Science

Wallace Sanders

ISBN: 978-1-63240-603-3
$149.95 US
2017
Book Size: 7”x10”
249pp./Colored
Hardback



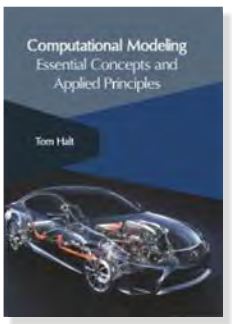
Computational Mechanics

Computational mechanics is the study of mechanics through computational methods. This book on computational mechanics deals with numerical and computational modeling and their applications that can solve problems in mechanical engineering. This field has three main sub-fields which are mathematics, computer science and mechanics. Different approaches, evaluations, methodologies and advanced studies on this field have been included in this book. It elucidates concepts and innovative models around prospective developments with respect to computational mechanics. The book is appropriate for students seeking detailed information in this area as well as for experts. It will help the readers in keeping pace with the rapid changes in this field.

Computer Science

Tom Halt

ISBN: 978-1-63240-619-4
$149.95 US
2017
Book Size: 7”x10”
244pp./Colored
Hardback



Computational Modeling: Essential Concepts and Applied Principles

Computational modeling is an effective method to compute, analyse and simulate theoretical and practical problems. This field is especially important for numerical modeling and mathematical calculations. This book on computational modeling delves into the essentials that are involved in the building and design of computer models. Different approaches, evaluations, methodologies and advanced studies on computational modeling have been included herein. This book is compiled in such a manner that it will provide in-depth knowledge about the theory and practice of computational modeling. It will provide comprehensive insights to students and researchers in the fields of computational science, software design and scientific modeling.

Information Science

Iker Morris

ISBN: 978-1-63240-615-6
$144.95 US
2017
Book Size: 8.5”x11”
235pp./Colored
Hardback

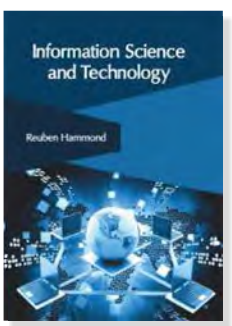
Information Management: Technologies and Methodologies

Information management encompasses all the aspects of information acquiring, storage and retrieval that is significant to an organization. This book on information management takes into account the main pillars of this field which are data, systems, information technology and data-related processes. Information systems are capable of high speed computing and allow for organizations to take knowledgeable decisions. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of information management. 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 is an essential guide for both academicians and those who wish to pursue this discipline further.

Information Science

Reuben Hammond

ISBN: 978-1-63240-605-7
$137.95 US
2017
Book Size: 7”x10”
221pp./Colored
Hardback



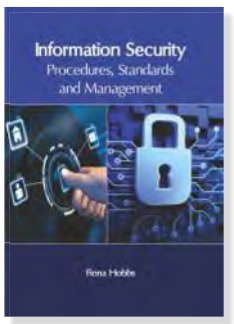
Information Science and Technology

This book on information science discusses technology that is used to store, process and transmit information. This book explores all the important aspects of this field in the present day scenario. Information science is multi-disciplinary and has various allied fields and branches. Topics included in this book seek to add to the ongoing research in information science and technology. It includes some of the vital pieces of work being conducted across the world, on various topics related to information science and technology. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Students, researchers, experts and also associated with information science and technology will benefit alike from this book.

Information Science

Fiona Hobbs

ISBN: 978-1-63240-583-8
$154.95 US
2017
Book Size: 8.5”x11”
254pp./Colored
Hardback



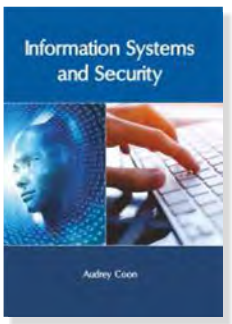
Information Security: Procedures, Standards and Management

The practice of defending, information from unauthorized access, use and disclosure along with destruction of data is known as information security. This defense mechanism is also known as InfoSec. This technology is widely used across the globe by various industries like hospitals, military etc. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included like its different procedures and techniques of management. This book also outlines the threats that are common to data and information like software attacks, Trojan horses, viruses, worms, etc. The extensive content of this book provides the readers with a thorough understanding of the subject. It is a vital tool for all researching and studying this field.

Information Science

Audrey Coon

ISBN: 978-1-63240-592-0
$149.95 US
2017
Book Size: 8.5”x11”
244pp./Colored
Hardback



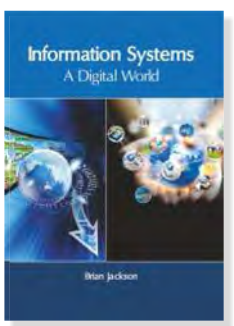
Information Systems and Security

Information systems are virtual systems that enable the organization, storage and creation of information which can be accessed and manipulated in an easy and effortless manner. This book on information systems discusses topics related to the processes and protocols involved in information storage and retrieval. Communication is the major field in which information systems are involved as these require rapid processing of large quantities of data as well as its storage, retrieval and manipulation. This book traces the progress of this field and highlights some of its key concepts and applications. 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 aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

Information Science

Brian Jackson

ISBN: 978-1-63240-582-1
$132.95 US
2017
Book Size: 8.5”x11”
212pp./Colored
Hardback



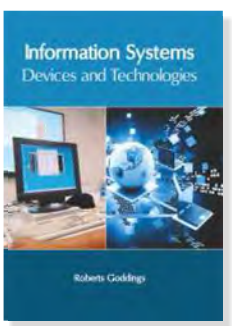
Information Systems: A Digital World

This book outlines the processes and applications of information systems in detail. It presents researches and studies performed by experts across the globe. Information systems refer to an organized system, which is used to store, organize, filter, collect, create, process, distribute and communicate information. It is an essential part of management, operations and decision-making. The different types of information systems are expert, search, geographic, etc. This text attempts to understand the multiple branches that fall under the discipline of information systems and how such concepts have practical applications. It will prove to be immensely beneficial to students and researchers in this field. As this field is emerging at a rapid pace, the concepts of this book will help the readers understand the innovative and emerging trends of the subject.

Information Science

Roberts Goddings

ISBN: 978-1-63240-598-2
$132.95 US
2017
Book Size: 8.5”x11”
220pp./Colored
Hardback



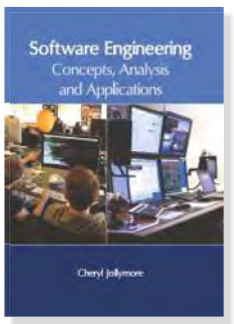
Information Systems: Devices and Technologies

This book on information systems deals with the organization, processing and distribution of information, especially in the business sector. Information systems are an important factor in modern decision making and business performance. They require specific hardware and software for their efficient functioning. Research in this field seeks to constantly upgrade existing components of information systems as well as enhance their security. Topics included in this book discuss the conceptual, algorithmic and technical aspects of intelligent system manufacturing. This book is a complete source of knowledge on the present status of this important discipline. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of information systems.

Software Engineering

Cheryl Jollymore

ISBN: 978-1-63240-599-9
$137.95 US
2017
Book Size: 8.5”x11”
228pp./Colored
Hardback



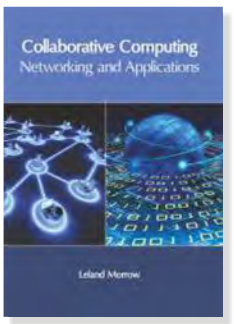
Software Engineering: Concepts, Analysis and Applications

Software engineering is the study of the conceptualization, design, development and maintenance of software. It covers sub-disciplines like software testing, configuration management, quality, etc. This book on software engineering deals with the analysis, specification and development of software. It presents some of the vital pieces of work being conducted across the world, on various topics related to software engineering. This book covers the theoretical and practical approaches of software engineering. Students, researchers, experts and all associated with this field will benefit alike from this book. For all readers who are interested in software engineering, the case studies included in this book will serve as excellent guide to develop a comprehensive understanding.

Artificial Intelligence

Leland Morrow

ISBN: 978-1-63240-590-6
$154.95 US
2017
Book Size: 8.5”x11”
255pp./Colored
Hardback



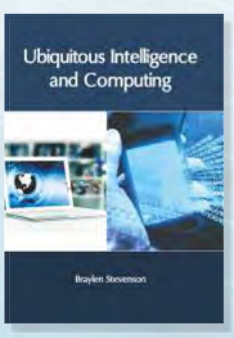
Collaborative Computing: Networking and Applications

Collaborative computing is the practice of involving multiple parties located at different regions to contribute ideas and suggestions to a common project or undertaking. This book on collaborative computing deals with the various applications that are available for editing and enhancing documents and media. Topics in this book seek to contribute to the simple and effective manner of collecting and verifying information that is followed by collaborative computing. 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. 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 be of great help to students and researchers in the fields of software engineering, telecommunications and wireless networking.

Artificial Intelligence

Braylen Stevenson

ISBN: 978-1-63240-591-3
$137.95 US
2017
Book Size: 8.5”x11”
224pp./Colored
Hardback



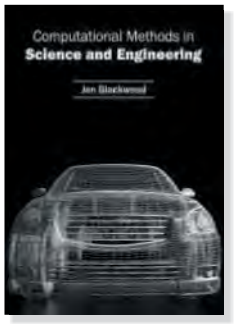
Ubiquitous Intelligence and Computing

Ubiquitous intelligence is defined as the development of software that can be used in multiple platforms instead of just one device. This book on ubiquitous intelligence and computing delves into the design of pervasive systems that perform simple, often repetitive tasks. Some of the diverse facts of ubiquitous intelligence include operating system, sensors, user interfaces, protocols, etc. Topics included in this book elucidate innovative aspects related to the fields of ubiquitous computing, ambient intelligence and control systems. Researchers and students in this area will be assisted by this text. 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.

Computer Science

Jen Blackwood

ISBN: 978-1-63240-550-0
$148.95 US
2016
Book Size: 8.5”x11”
246pp./Colored
Hardback



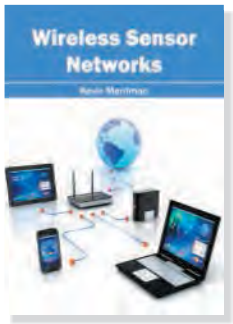
Computational Methods in Science and Engineering

Computational methods are concerned with the development of simulations and models often accompanied by high-performance computing technologies. Simulations have become an essential part of many business applications as they have the capability to foray into areas that were otherwise inaccessible. These methods are practically applicable to all the areas such as biology, medicine, civil engineering, chemistry, finance, industrial engineering, nuclear engineering, etc. Most of the topics introduced in this book cover new techniques and the applications of computational methods related to the areas of science and 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 complete source of knowledge on the present status of this important field.

Wireless Networking

Kevin Merriman

ISBN: 978-1-63240-551-7
$152.95 US
2016
Book Size: 8.5”x11”
267pp./Colored
Hardback



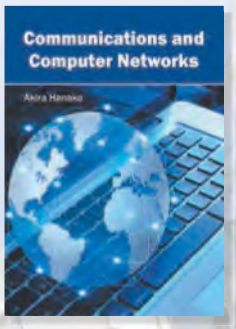
Wireless Sensor Networks

This book provides comprehensive insights into the field of wireless sensor networks. It traces the progress of this field and highlights some of its key concepts and applications. Wireless sensor networks refer to the sensors which are used to monitor and collect data in order to save it in a central location. They have varied applications such as measuring environmental conditions like humidity, temperature, wind speed, or detecting air pollution, landslides, natural disasters, water quality, etc. This book will discuss in detail the various applications of WSNs and will provide in-depth knowledge of different techniques used in this area. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail in this text. Students, scientists, engineers, researchers, etc. will benefit alike from this text.

Communications & Security

Akira Hanako

ISBN: 978-1-63240-552-4
$152.95 US
2016
Book Size: 8.5”x11”
279pp./Colored
Hardback



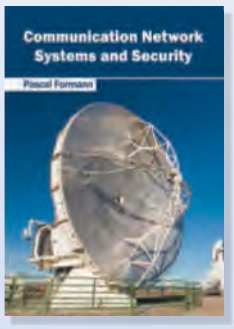
Communications and Computer Networks

Communications and computer networks refer to a network of telecommunication which enables different computers and computerized peripherals to interconnect via a wire or wireless medium and communicate and share data with each other. There are different types of computer networks like personal area network, local area network, metropolitan area network, wide area network, internetwork, etc. This book will serve as resource guide for students and researchers. It will discuss in detail various techniques and advanced concepts related to computer networks and their use in communication. As this field is emerging at a rapid pace, this text will help readers to better understand the concepts of this area. The ever growing need of advanced technology is the reason that has fueled the research in the field of communication and computer networks. This book is appropriate for students seeking detailed information in this area as well as for experts.

Communications & Security

Pascal Formann

ISBN: 978-1-63240-547-0
$132.95 US
2016
Book Size: 8.5”x11”
186pp./Colored
Hardback



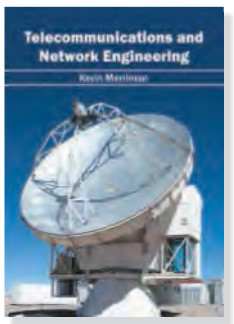
Communication Network Systems and Security

Communication network systems refer to the collection of various transmission networks, data terminal equipment (DTE), communication networks and tributary stations, etc. which are able to hold interoperation and interconnection to work as a single entity. Communication security enables these networks to work without hindrance and security failures. This book provides comprehensive insights into this field. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail in this text. It is appropriate for students seeking in-depth knowledge about this subject, as well as for experts. This book will serve as a valuable guide for all associated with this field.

Communications & Security

Kevin Merriman

ISBN: 978-1-63240-548-7
$137.95 US
2016
Book Size: 8.5”x11”
219pp./Colored
Hardback



Telecommunications and Network Engineering

Telecommunications engineering is mainly concerned with the design and development of telecommunications equipment, electronic switching systems, terrestrial radio link systems, fibre optics cabling, copper wire telephone facilities etc. It is a multidisciplinary field that primarily brings together system engineering, computer engineering, broadcast engineering and electrical engineering. Network engineering in telecom refers to developing network, hardware and software. This book contains some of the most important topics such as communications protocols, wireless networks, location based services, modulation, mobile computing systems, switching and routing, synchronization, wired communications, etc. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the fields of telecommunications and network engineering. This book is a vital tool for all researching or studying these disciplines as it gives incredible insights into emerging trends and concepts.

Data Mining

Wendy Witte

ISBN: 978-1-63240-569-2
$154.95 US
2016
Book Size: 8.5”x11”
295pp./Colored
Hardback

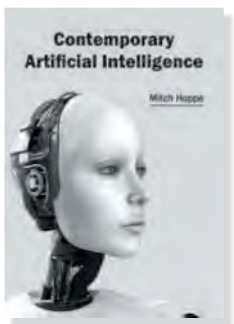
Data Mining: Analysis, Algorithms and Applications

Data mining is a branch of computer science. It has a wide scope as it integrates principles from diverse fields such as artificial intelligence, statistics, etc. It uses sophisticated algorithms and methods to create meaningful patterns out of abstract data. Anomaly detection, association rule learning, clustering, classification, regression, summarization, etc. are some techniques employed in this area. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of this field. Most of the topics introduced in this book cover new analysis, algorithms and applications of data mining. It aims to equip students and experts with the advanced topics and upcoming concepts in this discipline.

Artificial Intelligence

Mitch Hoppe

ISBN: 978-1-63240-549-4
$143.95 US
2016
Book Size: 8.5”x11”
226pp./Colored
Hardback



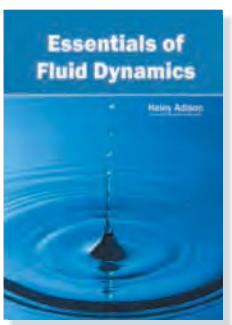
Contemporary Artificial Intelligence

Artificial intelligence is the field of computer science that is concerned with creation and design of software and machines exhibiting intelligence as in case of human beings. Intelligence means that the machines must be capable of adapting to changing environments and changing goals. It is an interdisciplinary field that includes mathematics, computer science, philosophy, neuroscience, linguistics, and psychology. There are certain varieties of tools that are employed in this field for example methods based on economics and probability, logic, mathematical optimization and many others. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects related to this area of study. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of artificial intelligence. It is a compilation of chapters that discuss the most vital concepts and emerging trends in this discipline. It is a ripe text for computer engineers, software developers, researchers and students associated with artificial intelligence.

Fluid Dynamics

Haley Adison

ISBN: 978-1-63240-568-5
$154.95 US
2016
Book Size: 8.5”x11”
284pp./Colored
Hardback



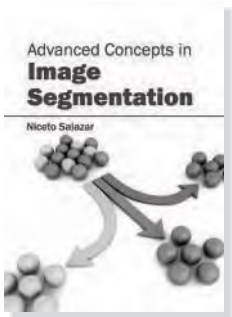
Essentials of Fluid Dynamics

Fluid dynamics is the branch of fluid mechanics that studies the flow of fluids. It is further divided into hydrodynamics which studies the liquids in motion and aerodynamics which studies the gases in motion. It is an upcoming field of science that has undergone rapid development over the past few decades. This discipline is applicable to a wide range of areas such as modeling fission weapon detonation, predicting weather patterns, calculating moments and forces on aircraft, traffic engineering, etc. This book elucidates new techniques and their applications in a multidisciplinary approach. Some of the diverse topics covered in this text address the varied branches that fall under this category. Through this book, we attempt to further enlighten the readers about the new concepts in this field. It will serve as a reference to a broad spectrum of readers including engineers and students.

Computer and Information Science

Niceto Salazar

ISBN: 978-1-63240-015-4
$79.95 US
2015
Book Size: 6”x9”
127pp./Colored
Hardback



Advanced Concepts in Image Segmentation

Image segmentation and its advanced concepts are highlighted in this book. The area of digital image segmentation is constantly developing. Currently, the developed segmentation techniques like Template Matching, Spatial and Temporal ARMA Processes, Mean Shift Iterative Algorithm, Constrained Compound Markov Random Field (CCMRF) model and Statistical Pattern Recognition (SPR) methods form the crux of the modernization effort that has resulted into the current book. This book is a demonstration of the important advancements that have been made in the area of image segmentation in the last few years, highlighting frontier works in image information processing.

Computer and Information Science

Mick Benson

ISBN: 978-1-63240-019-2
$149.95 US
2015
Book Size: 6”x9”
403pp./Colored
Hardback

Advanced Data Mining

This book consists of advanced information regarding data mining and their applications. It offers to aid data miners, researchers, scholars, and PhD students who aspire to practice data mining techniques. The elementary contribution of this book is to mark frontier fields and implementations of knowledge discovery and data mining. It may appear that the same things are being repeated but in general, same approach and techniques may aid us in various fields and proficiency areas. This book reflects knowledge discovery and data mining applications that include areas of statistics, machine learning, data management and databases, pattern recognition, artificial intelligence and other areas. This book majorly focuses on several applications of data mining.

Computer and Information Science

Gregory Rago

ISBN: 978-1-63240-033-8
$109.95 US
2015
Book Size: 6”x9”
207pp./Colored
Hardback

Advancement in Discrete Event Simulation

The technique of Discrete Event Simulation (DES) has received acclaim and attention from practitioners as well as researchers. The range of applications of DES extends across several distinct research fields as well as disciplines. Research indicates that there is still much to be discovered whereas other simulations continue to be combined with DES to develop hybrid programs. The book presents breakthrough research and elucidates information about DES, its compatibility with other simulation programs and brief analysis of its performance. This book can be deemed necessary not only for researchers and personnel associated with DES systems, but also for students and scholars in the field.

Computer and Information Science

Anthony Rocus

ISBN: 978-1-63240-321-6
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback

Internet of Things

Internet has been a major economic tool of the modern times. The internet of things makes every object unique and identifiable which makes transfer of data easy. This book aims to provide advanced knowledge and concepts revolving around this area of study. The research works included in this book on Internet of Things are latest and bound to provide incredible insights to its readers.

Computer Science

Ike Gibbs

ISBN: 978-1-63240-059-8
$79.95 US
2015
Book Size: 6”x9”
137pp./Colored
Hardback

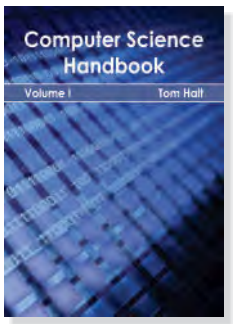
Agent-Based Technology: Functions and Applied Principles

This book provides state-of-the-art information regarding the functions and applied principles of agent-based technology. Agent-based technology facilitates a novel computing standard, where intelligent agents can be employed for carrying out tasks such as reasoning, planning, decision-making, scheduling and sensing. In this type of system, software agents with enough intelligence and independence can either operate independently or coordinate along with distinct agents to execute tasks and missions. This book aims to provide updated practical uses of this technique in distinct areas, like grid computing, adaptive virtual atmosphere and e-commerce through information contributed by veteran authors. The presented applications will be of great value for researchers and practitioners to comprehend the practical application of agent-based technology, and also to employ this technique creatively in distinct fields.

Computer Science

Tom Halt

ISBN: 978-1-63240-111-3
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback



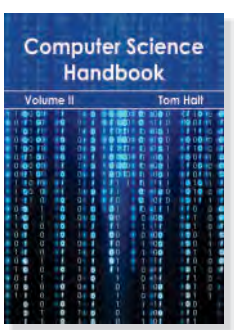
Computer Science Handbook: Volume I

Computer science is an interdisciplinary field of study and it is advancing at a rapid pace. Over the past few years, the applications of computers have grown in every sector. This book attempts to understand the multiple branches and their applications, that fall under the umbrella of computer science and how such research can be useful in our lives. This book is an attempt to compile and collate all available research on computer science under one umbrella.

Computer Science

Tom Halt

ISBN: 978-1-63240-112-0
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback



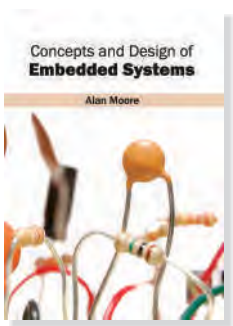
Computer Science Handbook: Volume II

Computer science is an interdisciplinary field of study and it is advancing at a rapid pace. Over the past few years, the applications of computers have grown in every sector. This book attempts to understand the multiple branches and their applications, that fall under the umbrella of computer science and how such research can be useful in our lives. This book is an attempt to compile and collate all available research on computer science under one umbrella.

Computer Science

Alan Moore

ISBN: 978-1-63240-116-8
$159.95 US
2015
Book Size: 6”x9”
444pp./Colored
Hardback



Concepts and Design of Embedded Systems

These days, embedded systems, i.e. the computer systems that are embedded in different types of devices, play a crucial role in particular control functions, and have led to different aspects of industry. Hence, we can hardly talk about our life and society without mentioning embedded systems. A large number of high-quality fundamental and applied researches are required for the development of wide-ranging embedded systems; only diversified technologies together can make these systems. This book attempts to cover a broad range of research topics on embedded systems, inclusive of basic researches, theoretical studies, and practical work that would be helpful to researchers and engineers around the world.

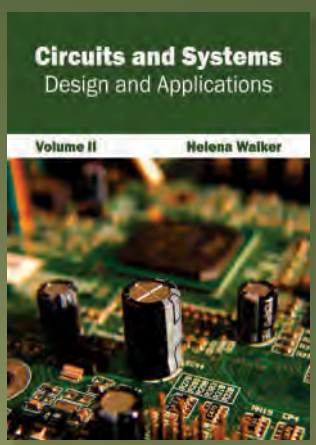
Computer and Information Science

Helena Walker

ISBN: 978-1-63240-097-0
$149.95 US
Year 2015
Book Size: 8.5”x11”
220pp./Colored
Hardback

Circuits and Systems: Design and Applications
Volume I

Circuits are the fundamentals of all electronic devices. For all those who’re interested in circuits and systems, this book will provide comprehensive knowledge to the reader. Contemporary innovative concepts and case studies revolving around circuits and systems have been presented in this book. Insights on recent studies and research methodologies can also be found in this book.



Computer and Information Science

Helena Walker

ISBN: 978-1-63240-098-7
$149.95 US
Year 2015
Book Size: 8.5”x11”
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Hardback

Circuits and Systems: Design and Applications
Volume II

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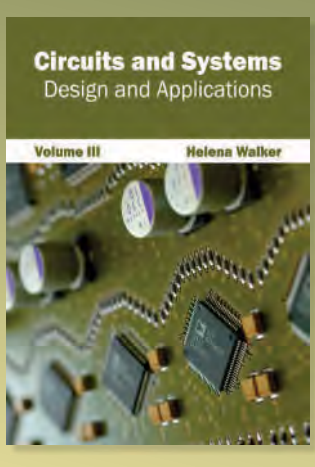

Computer and Information Science

Helena Walker

ISBN: 978-1-63240-099-4
$149.95 US
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Book Size: 8.5”x11”
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Hardback

Circuits and Systems: Design and Applications
Volume III

Circuits are the fundamentals of all electronic devices. For all those who’re interested in circuits and systems, this book will provide comprehensive knowledge to the reader. Contemporary innovative concepts and case studies revolving around circuits and systems have been presented in this book. Insights on recent studies and research methodologies can also be found in this book.

Computer and Information Science

Helena Walker

ISBN: 978-1-63240-100-7
$149.95 US
Year 2015
Book Size: 8.5”x11”
214pp./Colored
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Circuits and Systems: Design and Applications
Volume IV

Circuits are the fundamentals of all electronic devices. For all those who’re interested in circuits and systems, this book will provide comprehensive knowledge to the reader. Contemporary innovative concepts and case studies revolving around circuits and systems have been presented in this book. Insights on recent studies and research methodologies can also be found in this book.

Computer and Information Science

Helena Walker

ISBN: 978-1-63240-101-4
$149.95 US
Year 2015
Book Size: 8.5”x11”
216pp./Colored
Hardback

Circuits and Systems: Design and Applications
Volume V

Circuits are the fundamentals of all electronic devices. For all those who’re interested in circuits and systems, this book will provide comprehensive knowledge to the reader. Contemporary innovative concepts and case studies revolving around circuits and systems have been presented in this book. Insights on recent studies and research methodologies can also be found in this book.

Computer and Information Science

Helena Walker

ISBN: 978-1-63240-102-1
$149.95 US
Year 2015
Book Size: 8.5”x11”
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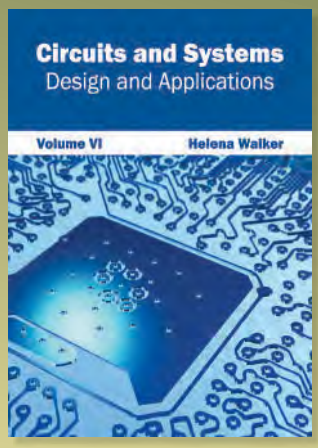
Circuits and Systems: Design and Applications
Volume VI

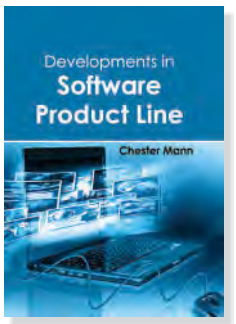
Circuits are the fundamentals of all electronic devices. For all those who’re interested in circuits and systems, this book will provide comprehensive knowledge to the reader. Contemporary innovative concepts and case studies revolving around circuits and systems have been presented in this book. Insights on recent studies and research methodologies can also be found in this book.



Computer Science

Chester Mann

ISBN: 978-1-63240-142-7
$79.95 US
2015
Book Size: 6”x9”
133pp./Colored
Hardback



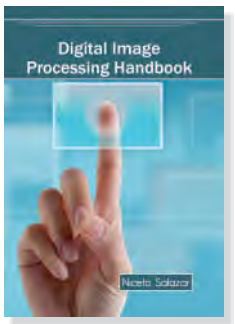
Developments in Software Product Line

The book discusses the latest developments in Software Product Line (SPL). Software product line is a fast developing methodology for designing software products. Two ongoing important issues in the field of SPL are analysis of SPL and modelling. To support engineers in dealing with the complexity of variability management, variability modeling techniques have been formulated and introduced. The basic objective of modeling variability techniques is to build a successful software product by regulating variability in domain engineering. Analysis of SPL helps in deriving vital information from SPL which introduces a planning and control strategy structure for engineers and experts. It also helps in ensuring accuracy of SPL and providing a precise view for users. This book introduces a number of methodologies for modelling and latest approaches for SPL analysis.

Computer Science

Niceto Salazar

ISBN: 978-1-63240-145-8
$109.95 US
2015
Book Size: 6”x9”
211pp./Colored
Hardback



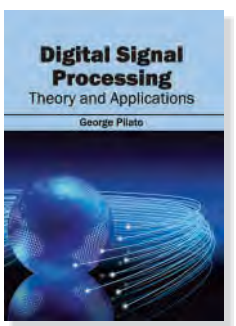
Digital Image Processing Handbook

This book discusses the recent advances related to ‘digital image processing’, acknowledging the possibilities offered by digital image processing algorithms in various fields. The book presents graphical representations and illustrative examples in addition to mathematical algorithms for the reader’s help. The book is structured for the better understanding of even those readers who have only a basic knowledge and experience in the field of digital image processing. Moreover, the scientists and researchers will be able to use the information given in this book for the advancement of the presented subjects.

Computer Science

George Pilato

ISBN: 978-1-63240-146-5
$159.95 US
2015
Book Size: 6”x9”
414pp./Colored
Hardback



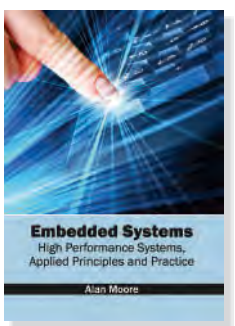
Digital Signal Processing: Theory and Applications

This book covers the wide realm of digital signal processing. It is a compilation of chapters drafted by various specialists. It focuses on the recent developments in the field of signal processing and presents the current research going on in this field. This book targets researchers in the area of signal processing and related areas of interest. It is comprehensible to all those who have a scientific background and intend to get familiar with the contemporary developments in this field. The chapters within this book discuss the methodological development and latest practices of signal processing.

Computer Science

Alan Moore

ISBN: 978-1-63240-169-4
$119.95 US
2015
Book Size: 6”x9”
290pp./Colored
Hardback



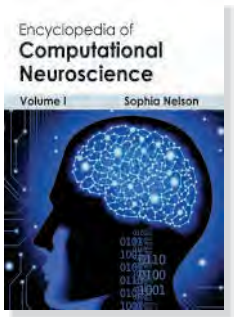
Embedded Systems: High Performance Systems, Applied Principles and Practice

In today’s time, embedded systems i.e. computer systems that are embedded in different types of devices play a crucial role in particular control functions and have led to the progress of different aspects of industry. Hence, we can hardly discuss our life, or even society, nowadays without referring to embedded systems. A number of high quality fundamental and applied researches are crucial to broaden the range of growth of these embedded systems. This book deals with research topics of various researchers and engineers across the world, which discuss embedded systems along with parallel computing, communication architecture, application-specific systems, and embedded systems projects. Various technologies have been illustrated in this book which will prove to be beneficiary for scientists around the globe.

Computer Science

Sophia Nelson

ISBN: 978-1-63240-179-3
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback



Encyclopedia of Computational Neuroscience: Volume I

This book will provide answers to various questions related to neuroscience. The concepts covered in the book include computational, cellular, cognitive, and clinical neuroscience. This book also includes researches discussing functions of brain using optical tools and social neuroscience. Recent developments in neuroscience have also been discussed at great length. The focus of the book is not only on the structure of brain but also on the function of brain, thereby presenting chapters which integrate researches of nervous system and brain together.

Computer Science

Sophia Nelson

ISBN: 978-1-63240-180-9
$149.95 US
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Book Size: 8.5”x11”
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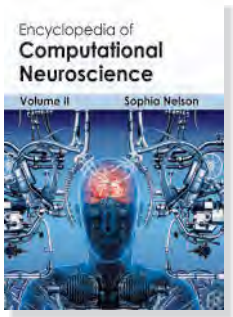


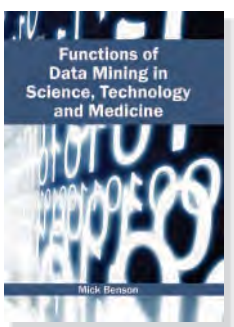
Encyclopedia of Computational Neuroscience: Volume II

This book will provide answers to various questions related to neuroscience. The concepts covered in the book include computational, cellular, cognitive, and clinical neuroscience. This book also includes researches discussing functions of brain using optical tools and social neuroscience. Recent developments in neuroscience have also been discussed at great length. The focus of the book is not only on the structure of brain but also on the function of brain, thereby presenting chapters which integrate researches of nervous system and brain together.

Computer Science

Mick Benson

ISBN: 978-1-63240-242-4
$144.95 US
2015
Book Size: 6”x9”
336pp./Colored
Hardback



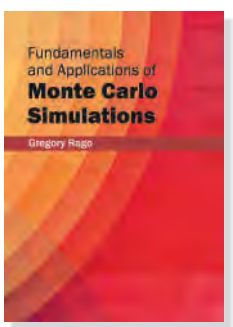
Functions of Data Mining in Science, Technology and Medicine

The aim of this book is to assist data miners who want to employ distinct data mining techniques. Data mining commonly encompasses areas of machine learning, pattern identification, statistics, data management and databases, artificial intelligence, etc. This book covers most of these areas by elucidating various applications. The readers will understand why and how data mining can also be employed for the enhancement of project management through this book. It will also serve as a great source of information and inspire readers to pursue education and research in this growing field; since the book also integrates extensive information concerning certain aspects and significance of data mining in various fields like pharmacovigilance, incorporating domain knowledge into medical image mining, electronic documentation of clinical pharmacy interventions in hospitals, etc.

Computer Science

Gregory Rago

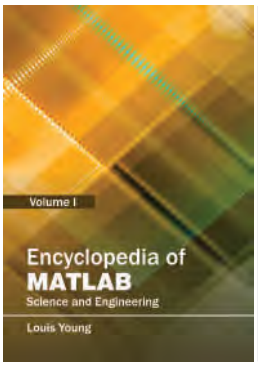
ISBN: 978-1-63240-243-1
$119.95 US
2015
Book Size: 6”x9”
283pp./Colored
Hardback



Fundamentals and Applications of Monte Carlo Simulations

This book consists of up-to-date information regarding the fundamentals and applications of Monte Carlo simulations. The aim of this book is to provide information about the current developments and applications of Monte Carlo Simulation (MCS) to the readers. The vital feature of the MCS method is random sampling. The book describes how such a sampling method can be used to resolve complex problems or evaluate complicated systems in distinct science and engineering domains. Issues like uncertainty assessment, statistical estimation, variance reduction and optimization have been described in this book. Recent applications of MCS are illustrated in estimation of transition behavior of organic molecules, particle diffusion, financial systems modeling, healthcare practices, chemical reaction and kinetic simulation of biological data and biophysics. Field-specific background knowledge and utilities of MCS have been discussed to optimize the accessibility of this book. This book aims at unifying knowledge of the concept from distinct areas to promote novel applications and research endeavors of MCS.

Computer Science



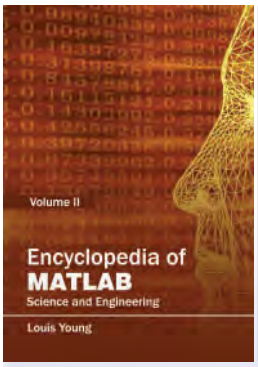
Louis Young

ISBN: 978-1-63240-189-2
$144.95 US
Year 2015
Book Size: 6”x9”
330pp./Colored
Hardback

Volume I

Encyclopedia of MATLAB: Science and Engineering

This book analyzes applications of MATLAB in roughly every division of science. This book covers applications based on the engineering of MATLAB as a tool for computing. The book has several chapters dealing with numerous professional fields and can be utilized by experts for their researches.



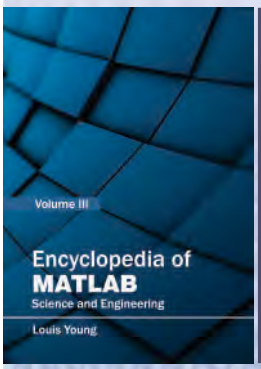
Louis Young

ISBN: 978-1-63240-190-8
$109.95 US
Year 2015
Book Size: 6”x9”
213pp./Colored
Hardback

Volume II

Encyclopedia of MATLAB: Science and Engineering

This book analyzes applications of MATLAB in roughly every division of science. The text covers applications, image and signal processing based on the engineering of MATLAB as a tool for computing. The book has several chapters dealing with numerous professional fields and can be utilized by experts for their researches.



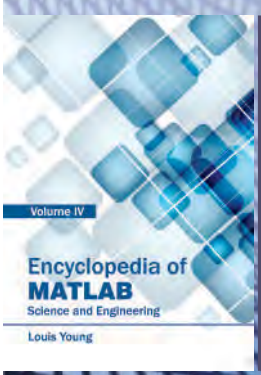
Louis Young

ISBN: 978-1-63240-191-5
$144.95 US
Year 2015
Book Size: 6”x9”
322pp./Colored
Hardback

Volume III

Encyclopedia of MATLAB: Science and Engineering

The multi-paradigm numerical computing environment of MATLAB (Matrix Laboratory) has been elaborated in this book. It discusses MATLAB based applications in nearly every domain of science consisting of a compilation of comprehensive articles on this fourth-generation programming language. This book deals with the electronic engineering and computer science aspects of language, MATLAB/SIMULINK as a tool for engineering applications, applications in telecommunication and communication systems and MATLAB toolboxes as useful tools for allowing accessibility to symbolic computing capabilities.



Louis Young

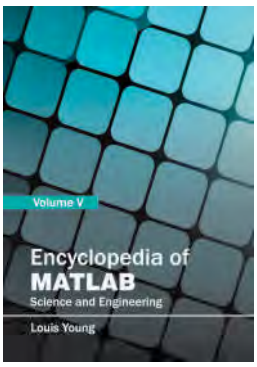
ISBN: 978-1-63240-192-2
$109.95 US
Year 2015
Book Size: 6”x9”
227pp./Colored
Hardback

Volume IV

Encyclopedia of MATLAB: Science and Engineering

This book discusses MATLAB based applications in nearly every branch of science. The collection of insightful chapters will provide beneficial results to the readers in their spheres of work. It deals with the use of MATLAB for formulation of mathematical methods in applied sciences. This compilation of valued chapters covers a wide range of professional fields and can be used for applications in science as well as for engineering.

Computer Science



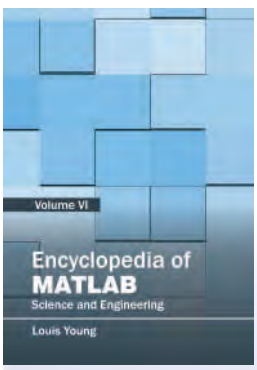
Louis Young

ISBN: 978-1-63240-193-9
$119.95 US
Year 2015
Book Size: 6”x9”
280pp./Colored
Hardback

Volume V

Encyclopedia of MATLAB: Science and Engineering

This book discusses MATLAB based applications in nearly every branch of science. The collection of insightful chapters will provide beneficial results to the readers in their spheres of work. It deals with MATLAB general applications and the use of MATLAB for educational purposes. This compilation of valued chapters covers a wide range of professional fields and can be used for applications in science as well as for various educational purposes.



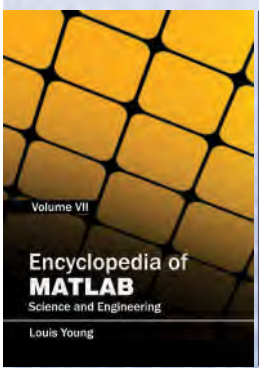
Louis Young

ISBN: 978-1-63240-194-6
$144.95 US
Year 2015
Book Size: 6”x9”
316pp./Colored
Hardback

Volume VI

Encyclopedia of MATLAB: Science and Engineering

Proportional-integral-derivative (PID) controllers are widely regarded as the most important tool for a control engineer. However, in today’s era of computer science, MATLAB has acquired the position of an essential tool for the modern system engineering. This book has been written in a manner to serve as a practical guide for both practicing engineers and engineering students. Numerous applications use MATLAB as the working framework which shows that it is an effective, comprehensive and handy technique for performing technical computations. This book discusses various prominent applications in which MATLAB is used: from pure algebraic computations to data acquisition in real-life experiments and control strategies.



Louis Young

ISBN: 978-1-63240-195-3
$109.95 US
Year 2015
Book Size: 6”x9”
254pp./Colored
Hardback

Volume VII

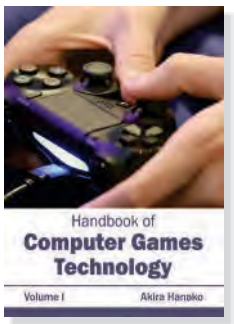
Encyclopedia of MATLAB: Science and Engineering

Proportional-integral-derivative (PID) controllers are widely regarded as the most important tool for a control engineer. However, in today’s era of computer science, MATLAB has acquired the position of an essential tool for the modern system engineering. This book has been written in a manner to serve as a practical guide for both practicing engineers and engineering students. Numerous applications use MATLAB as the working framework which shows that it is an effective, comprehensive and handy technique for performing technical computations. This book discusses various prominent applications in which MATLAB is used: in image processing algorithms, and from Graphic User Interface (GUI) design for educational purposes to Simulink embedded systems.

Computer Science

Akira Hanako

ISBN: 978-1-63240-260-8
$149.95 US
2015
Book Size: 8.5”x11”
207pp./Colored
Hardback



Handbook of Computer Games Technology: Volume I

Computer gaming has progressed to the next level. The concepts and tools of computer game development discussed in this book will help software developers and computer graphics designers. Some of the topics discussed are the alterations that are being made to the existing software development tools, ethics of software development among others. This book contains discussions about different types of game development and their future. This book will be useful for learning advanced aspects of technology in computer gaming.

Computer Science

Akira Hanako

ISBN: 978-1-63240-261-5
$149.95 US
2015
Book Size: 8.5”x11”
203pp./Colored
Hardback

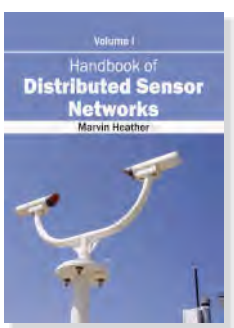
Handbook of Computer Games Technology: Volume II

Computer gaming has progressed to the next level. The concepts and tools of computer game development discussed in this book will help software developers and computer graphics designers. Some of the topics discussed are the alterations that are being made to the existing software development tools, ethics of software development among others. This book contains discussions about different types of game development and their future. This book will be useful for learning advanced aspects of technology in computer gaming.

Computer Science

Marvin Heather

ISBN: 978-1-63240-266-0
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback



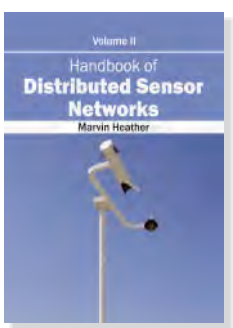
Handbook of Distributed Sensor Networks: Volume I

Some of the applications that have been derived from sensor networks can be found in the field of transport, environmental studies, engineering, production technologies, security, etc. A huge number of problems related to the input of data directly from sensors to an automated system can be solved by using distributed sensor systems. This book discusses distributed sensor networks by essentially focusing on applications and recent researches. It provides key ideas and approaches, which can help in the development of high performance computing solutions for complex sensor networks problems.

Computer Science

Marvin Heather

ISBN: 978-1-63240-267-7
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback



Handbook of Distributed Sensor Networks: Volume II

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Computer Science

Akira Hanako

ISBN: 978-1-63240-288-2
$149.95 US
2015
Book Size: 8.5”x11”
214pp./Colored
Hardback

Handbook of Reconfigurable Computing: Volume I

This book attempts to understand the multiple advancements and researches being conducted across the globe under the umbrella of reconfigurable computing. It also discusses how such research can be integrated into practical applications. 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.

Computer Science

Akira Hanako

ISBN: 978-1-63240-289-9
$149.95 US
2015
Book Size: 8.5”x11”
217pp./Colored
Hardback

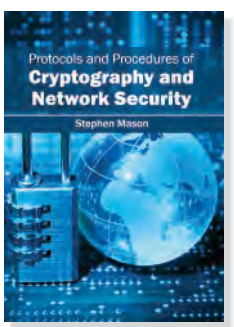
Handbook of Reconfigurable Computing: Volume II

This book attempts to understand the multiple advancements and researches being conducted across the globe under the umbrella of reconfigurable computing. It also discusses how such research can be integrated into practical applications. 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.

Computer Science

Stephen Mason

ISBN: 978-1-63240-423-7
$94.95 US
2015
Book Size: 6”x9”
154pp./Colored
Hardback



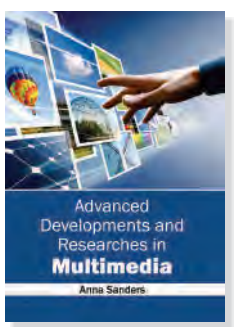
Protocols and Procedures of Cryptography and Network Security

This book provides an overview on various methodologies and procedures of cryptography. In the times of escalating worldwide development of electronic data storage and communications, efficient security of information has become a crucial need. The most efficient tool for the protection of information is cryptography, used in a combination with other tools for assuring the security of information in all of its applications, including user authentication, data integrity and confidentiality. This book is a compilation of in-depth research work in the field of cryptography. It describes some of the crucial challenges faced by the present computing world as well as a few techniques to defend against these challenges. It aims at serving as a useful source of reference for engineers, graduate and doctoral students, researchers, faculty members of universities, etc.

Multimedia

Anna Sanders

ISBN: 978-1-63240-021-5
$79.95 US
2015
Book Size: 6”x9”
115pp./Colored
Hardback



Advanced Developments and Researches in Multimedia

This book deals with advanced developments as well as researches in the field of multimedia. As multimedia has evolved into a significant technology, vastly bettering people's lives, this book offers an updated scenario about different fields of research being carried out in the area. It includes topics like web-based co-operative learning, efficient distance learning via multimedia, quality control of multimedia on the internet, recovery of broken images, Network-on-Chip (NoC) as a global communication vehicle, and Network GPS for road conditions (like traffic and checkpoints). We are confident that this book will benefit researchers in this field to advance further in their research on multimedia.

Multimedia

Alicia Witte

ISBN: 978-1-63240-047-5
$149.95 US
2015
Book Size: 8.5”x11”
217pp./Colored
Hardback

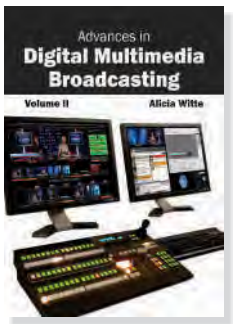
Advances in Digital Multimedia Broadcasting: Volume I

This book presents various topics on digital multimedia broadcasting, written by numerous experts. It discusses some of the most important multimedia broadcasting techniques and their applications. Some of the researches in this book are case studies of techniques that have already been implemented and are helping human life in different ways. The aim for producing this book is to provide our readers with best of conceptual knowledge regarding broadcasting techniques. This book will help students, engineers in the field of networking as well as multimedia designing, and all those who are in the field of communication.

Multimedia

Alicia Witte

ISBN: 978-1-63240-048-2
$149.95 US
2015
Book Size: 8.5”x11”
194pp./Colored
Hardback



Advances in Digital Multimedia Broadcasting: Volume II

This book presents various topics on digital multimedia broadcasting, written by numerous experts. It discusses some of the most important multimedia broadcasting techniques and their applications. Some of the researches in this book are case studies of techniques that have already been implemented and are helping human life in different ways. The aim for producing this book is to provide our readers with best of conceptual knowledge regarding broadcasting techniques. This book will help students, engineers in the field of networking as well as multimedia designing, and all those who are in the field of communication.

Multimedia

Alicia Witte

ISBN: 978-1-63240-049-9
$149.95 US
2015
Book Size: 8.5”x11”
200pp./Colored
Hardback

Advances in Digital Multimedia Broadcasting: Volume III

This book presents various topics on digital multimedia broadcasting, written by numerous experts. It discusses some of the most important multimedia broadcasting techniques and their applications. Some of the researches in this book are case studies of techniques that have already been implemented and are helping human life in different ways. The aim for producing this book is to provide our readers with best of conceptual knowledge regarding broadcasting techniques. This book will help students, engineers in the field of networking as well as multimedia designing, and all those who are in the field of communication.

Multimedia

Alicia Witte

ISBN: 978-1-63240-128-1
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback

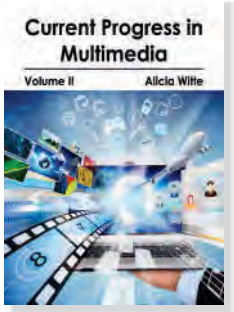
Current Progress in Multimedia: Volume I

This book is an attempt to compile and collate all available research on multimedia under one aegis. This book attempts to understand the multiple branches that fall under multimedia. The various researches that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here. Researchers and students in this field in search of information to further their knowledge of this field will be greatly assisted by this book.

Multimedia

Alicia Witte

ISBN: 978-1-63240-129-8
$149.95 US
2015
Book Size: 8.5”x11”
203pp./Colored
Hardback



Current Progress in Multimedia: Volume II

This book is an attempt to compile and collate all available research on multimedia under one aegis. This book attempts to understand the multiple branches that fall under multimedia. The various researches that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here. Researchers and students in this field in search of information to further their knowledge of this field will be greatly assisted by this book.

Multimedia

Nelly Foreman

ISBN: 978-1-63240-315-5
$144.95 US
2015
Book Size: 6”x9”
326pp./Colored
Hardback

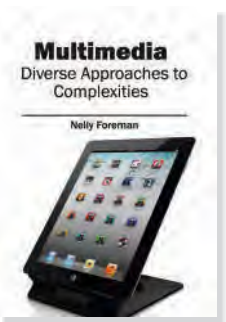
Interactive Multimedia: An Insight

Interactive multimedia is a field of fundamental research, social, educational and economic importance, as it brings together miscellaneous disciplines for the advancement of multimedia systems that have an ability to sense the environment, and dynamically process, edit, alter or create new content. For forming novel applications and systems; ideas, theories, approaches and inventions are combined. This book consists of novel scientific research, proven methodologies and interdisciplinary case studies that display development under Interfaces, Interactive Multimedia Learning, Teaching and Competence Diagnosis Systems, Interactive TV, Film and Multimedia Production and Video Processing. It offers new aspects in terms of strategies, tested practices and solutions that may be used as a strong basis for the advancement of new interactive systems and applications.

Multimedia

Nelly Foreman

ISBN: 978-1-63240-368-1
$119.95 US
2015
Book Size: 6”x9”
288pp./Colored
Hardback



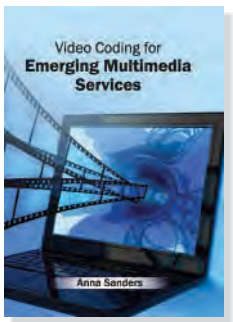
Multimedia: Diverse Approaches to Complexities

This book discusses the state-of-the-art information on multimedia and its diverse approaches. The current universal effortless digital data capture and processing capabilities presented by the majority of devices, lead to an exceptional intrusion of multimedia content in our day-to-day life. To make the most of this phenomenon, the swiftly escalating volume and utilization of digitized content needs continuous re-examination and adaptation of multimedia methods, for the purpose of meeting the relentless change of necessities from both the user and system viewpoints. Developments in multimedia give readers an analysis of the ever-growing field of multimedia by integrating several research analyses and surveys from distinct subfields that point out such significant aspects. Certain major topics encompassed in this book are security characteristics in multimedia, latest multimedia applications, multimedia management in peer-to-peer structures & wireless networks, and semantic gap bridging for multimedia content.

Multimedia

Anna Sanders

ISBN: 978-1-63240-516-6
$109.95 US
2015
Book Size: 6”x9”
209pp./Colored
Hardback



Video Coding for Emerging Multimedia Services

This book presents an in-depth study of video coding and elucidates its applications. It targets to bring together latest developments and applications of video coding. This book can be beneficial for researchers, engineers, graduate and postgraduate students, experts in this field, and hopefully, also for people who hold interest in video coding. The book talks about error resilient algorithms for H.264/AVC, wavelet-based coding, concerning latest video coding standards, high efficiency video coding (HEVC), multiple description coding, developed compression techniques for multimedia applications, shape compensation, region of interest (ROI) coding, facial video coding, and hardware implementations. Also, it provides many helpful ideas for your own research and aids to bridge the gap between basic video coding techniques and practical multimedia applications. We hope this book will make for a good read and help in contributing to video coding.

Computer Graphics

Niceto Salazar

ISBN: 978-1-63240-110-6
$119.95 US
2015
Book Size: 6”x9”
268pp./Colored
Hardback

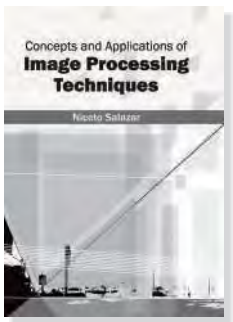
Computer Graphics Handbook

Computer graphics help in visualizing real, imaginary as well as abstract items. Therefore, it has become a crucial technique in the fields of education, medicine, industry and entertainment. Varied technologies are required for visualizing various entities categorized into two main classes in computer graphics: rendering and modeling technologies. This book encompasses developed technologies for both categories, along with visualization techniques and applications for motion blur, virtual agents and historical textiles. This book also provides beneficial knowledge for researchers in the same field.

Computer Graphics

Niceto Salazar

ISBN: 978-1-63240-115-1
$94.95 US
2015
Book Size: 6”x9”
182pp./Colored
Hardback



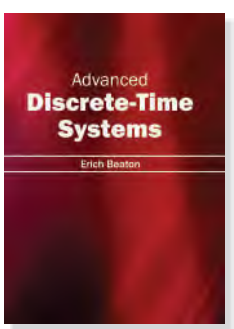
Concepts and Applications of Image Processing Techniques

The concepts as well as applications of various image processing techniques are elucidated in this comprehensive book. The book offers image processing principles and practical software implementation on a wider area of its usage. It combines the contributions from leading researchers on Applied Digital Image Acquisition and Processing. A crucial characteristic of the book is its focus on software tools and scientific computing in order to enhance results and reach at solutions of different problems.

Information Science

Erich Beaton

ISBN: 978-1-63240-022-2
$119.95 US
2015
Book Size: 6”x9”
255pp./Colored
Hardback



Advanced Discrete-Time Systems

This comprehensive book, written for readers with interest in discrete-time systems, serves as a good source of information. It presents contemporary outcomes in the area of discrete-time systems, including research work written on the topics of robust control, nonlinear systems and current applications. Although the technical views differ, they all are geared towards targeting updated knowledge gain by the researchers and granting efficient advancements along the systems and control arena. Each topic has comprehensive discourses and suggestions for future analysis by interested investigators.

Information Science

Conor Suarez

ISBN: 978-1-63240-132-8
$149.95 US
2015
Book Size: 6”x9”
354pp./Colored
Hardback

Data Acquisition Handbook

This handbook on data acquisition provides up-to-date information of the field. Data acquisition systems have several applications. This book extensively elucidates the industrial applications, scientific experiments and medical applications. Veterans from across the globe have contributed significant information in this book. The book is targeted at a broad spectrum of readers including professionals who are designers or researchers in the field of data acquisition systems. It will also serve as a useful resource for graduate students as well as faculty members.

Software Engineering

Tom Halt

ISBN: 978-1-63240-293-6
$149.95 US
2015
Book Size: 8.5”x11”
220pp./Colored
Hardback

Handbook of Software Engineering: Volume I

This book on software engineering explores all the important aspects of software development and software applications in the present day scenario. The compiled chapters discuss concepts of different software development processes, software maintenance, software development tools, software applications with a variety of examples from different areas of engineering and software programming concepts. Also, included in this book are concepts of software updates, using real life examples of softwares already in use.

Software Engineering

Tom Halt

ISBN: 978-1-63240-294-3
$149.95 US
2015
Book Size: 8.5”x11”
210pp./Colored
Hardback

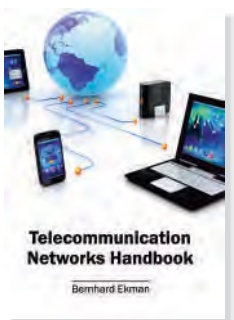
Handbook of Software Engineering: Volume II

This book on software engineering explores all the important aspects of software development and software applications in the present day scenario. The compiled chapters discuss concepts of different software development processes, software maintenance, software development tools, software applications with a variety of examples from different areas of engineering and software programming concepts. Also, included in this book are concepts of software updates, using real life examples of softwares already in use.

Wireless Networking

Bernhard Ekman

ISBN: 978-1-63240-482-4
$119.95 US
2015
Book Size: 6”x9”
264pp./Colored
Hardback



Telecommunication Networks Handbook

This handbook provides a descriptive examination of telecommunications networks. It elucidates the basics of fast developing networks as well as the advanced concepts and future expectations of Telecommunications Networks. It recognizes and analyzes the most important research issues in Telecommunication and it consists of information contributed by the top researchers, industry and academic experts. This book also contains surveys of current publications that thoroughly examine important fields of interest like: simulation, optimization problems, etc. The book covers topics like Telecommunications, Traffic Engineering and Routing. It will serve as a good reference for both PhD and MA students.

Wireless Networking

Bernhard Ekman

ISBN: 978-1-63240-483-1
$94.95 US
2015
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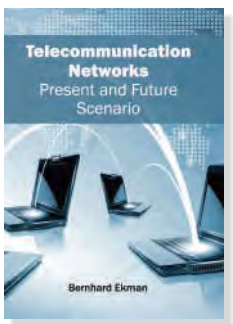
Hardback



Telecommunication Networks: Present and Future Scenario

A descriptive account on telecommunications networks has been presented in this profound book. It elucidates the basics of fast developing networks as well as the advanced concepts and future expectations of Telecommunications Networks. It recognizes and analyzes the most important research issues in Telecommunication and it consists of information contributed by the top researchers, industry and academic professionals. This book also contains surveys of current publications that thoroughly examine important fields of interest like: 3G/4G, IMS, modeling, quality of service, eTOM etc. The book covers topics like New Generation Networks, Quality of Services, and Sensor Networks. It will serve as a good reference for both PhD and MA students.

Wireless Networking

Timothy Kolaya

ISBN: 978-1-63240-524-1
$94.95 US
2015
Book Size: 6”x9”
173pp./Colored
Hardback

Wireless Ad-Hoc Networks

This book discusses the topic of wireless ad-hoc networks with the help of state-of-the-art information. A wireless ad-hoc network can be defined as a wireless network set up without any infrastructure. These types of networks include mobile ad-hoc networks, vehicular ad-hoc networks, and wireless mesh networks. This book highlights the basic-most aspects of these networks. It consists of information related to the analysis of routing protocols for better efficiency, the design of the link layer for enhanced performance, and practical issues in application. These topics are critical for setting up the foundation in design, set-up, implementation, and study of a wireless ad-hoc network. Primary features of this book consist of fundamental introduction, novel routing paradigm and algorithms, performance analysis and enhancement of medium access protocols, auto-configuration schemes and associated issues and privacy in a vehicular ad-hoc network.

Communications & Security

Adam Houle

ISBN: 978-1-63240-051-2
$119.95 US
2015
Book Size: 6”x9”
284pp./Colored
Hardback

Advances in Mobile Communications

Advances in mobile communications are elucidated in this all-inclusive book. It offers interdisciplinary perspectives on the mobile telecommunications industry. Topics covered in the book provide comprehensive and updated surveys on new developments of various economical and technical aspects of mobile telecommunications markets. The economic-oriented topics comprise of analyses of the features of WAC, impact of privatization on the performance of mobile service providers, the present state of the telecom market, applications of LAM model in market segmentation etc. Furthermore, it comprehensively elucidates technical issues including the rising wireless technologies which are usable in RVC communication, antenna parameters for mobile communication setups, ad hoc networks in mobile communications, etc. The topics have been dealt with vividly employing the use of comprehensive examples and valuable information.

Communications & Security

Akira Hanako

ISBN: 978-1-63240-108-3
$149.95 US
2015
Book Size: 8.5”x11”
197pp./Colored
Hardback

Communications Handbook: Volume I

This book attempts to understand the multiple branches that fall under the discipline of communication and communication studies and how such concepts have practical applications in our lives. The various concepts that are constantly contributing towards advancing technologies and the evolution of this field are elaborated in this book. Those in search of information to further their knowledge of this field will be benefitted by this book.

Communications & Security

Akira Hanako

ISBN: 978-1-63240-109-0
$149.95 US
2015
Book Size: 8.5”x11”
198pp./Colored
Hardback

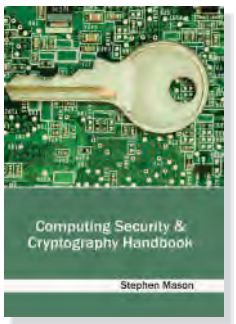
Communications Handbook: Volume II

This book attempts to understand the multiple branches that fall under the discipline of communication and communication studies and how such concepts have practical applications in our lives. The various concepts that are constantly contributing towards advancing technologies and the evolution of this field are elaborated in this book. Those in search of information to further their knowledge of this field will be benefitted by this book.

Communications & Security

Stephen Mason

ISBN: 978-1-63240-113-7
$119.95 US
2015
Book Size: 6”x9”
253pp./Colored
Hardback



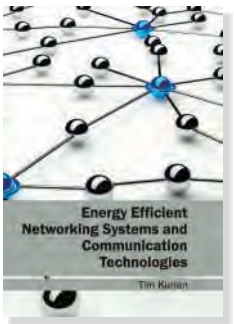
Computing Security & Cryptography Handbook

This book presents some critical security challenges that are faced in today’s computing world. It discusses, in detail, the defense mechanisms against these kinds of attacks with the help of classical and modern approaches of cryptography and other defense mechanisms. The book not only deals with theoretical and fundamental aspects of cryptography, but also talks in length about different applications of cryptographic protocols and techniques in designing computing and network security solutions. This book will prove itself to be beneficial for researchers, engineers, graduate and doctoral students who are working in the same and related field.

Communications & Security

Tim Kurian

ISBN: 978-1-63240-208-0
$79.95 US
2015
Book Size: 6”x9”
153pp./Colored
Hardback



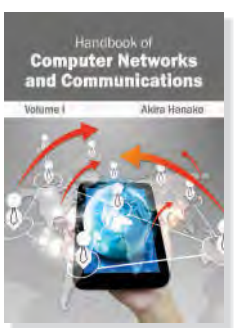
Energy Efficient Networking Systems and Communication Technologies

This book provides a descriptive and comprehensive introduction to energy efficient networking systems and communication technologies. Energy efficiency in communication and networking systems is increasingly attracting attention due to both financial and ecological reasons. The amount of power consumed by information and communication technologies (ICT) is speedily growing, as well as the energy bill of service providers. According to many recent researches, ICT single-handedly is accountable for a major chunk of energy consumption which varies from 2% to 10% of the world power utilization. Energy-efficiency is a feature that until recently was only considered for battery determined tools. Nowadays, we see energy-efficiency becoming a persistent issue that will need to be considered in all areas of technology from device technology to systems organization. This book is a compilation of latest research data on hardware design, architectures, protocols and algorithms. This will not only help in making communication devices more energy-efficient but also lead to a future with more infrastructures based on energy-saving technologies.

Communications & Security

Akira Hanako

ISBN: 978-1-63240-262-2
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback



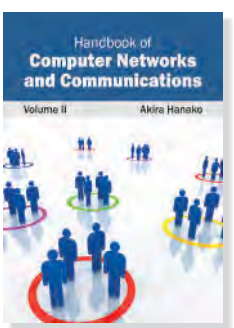
Handbook of Computer Networks and Communications: Volume I

Computer networks and communications are the future of our existence. Even today, they are deeply integrated into our lives. The objective of the book is to give a general view of the different areas of computer networks, and its applications. This book is meant for students who are looking for an elaborated written script on computer networks and communication. The listed topics cover the advanced concepts of computer networks, ad-hoc networks, protocols, key issues regarding establishment of networks, data control, etc. The chapters in this book are written by experts, and this book also contains practical examples to illustrate the concept of communication.

Communications & Security

Akira Hanako

ISBN: 978-1-63240-263-9
$149.95 US
2015
Book Size: 8.5”x11”
218pp./Colored
Hardback



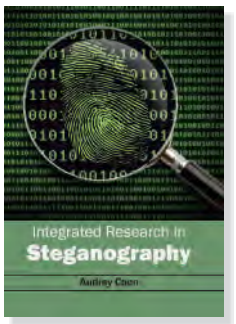
Handbook of Computer Networks and Communications: Volume II

Computer networks and communications are the future of our existence. Even today, they are deeply integrated into our lives. The objective of the book is to give a general view of the different areas of computer networks, and its applications. This book is meant for students who are looking for an elaborated written script on computer networks and communication. The listed topics cover the advanced concepts of computer networks, ad-hoc networks, protocols, key issues regarding establishment of networks, data control, etc. The chapters in this book are written by experts, and this book also contains practical examples to illustrate the concept of communication.

Communications & Security

Audrey Coon

ISBN: 978-1-63240-313-1
$74.95 US
2015
Book Size: 6”x9”
101pp./Colored
Hardback



Integrated Research in Steganography

Steganography involves the art of concealing one message or data file within another. Stenographic technologies form an essential part of the future of internet privacy and security. This book emphasizes a novel field of study in steganography. They are the underlying science and art of communicating which keep the existence of the communication hidden. This book provides a broad overview of this technology by introducing distinct and latest concepts of steganography and steganalysis. The book also briefly covers the history of steganography and evaluates steganalysis methods considering their modeling techniques. It also presents some new steganography techniques for hiding secret data in images. The book also analyzes steganography in speeches and presents a new approach for concealing data in speeches.

Communications & Security

Anna Sanders

ISBN: 978-1-63240-350-6
$94.95 US
2015
Book Size: 6”x9”
167pp./Colored
Hardback

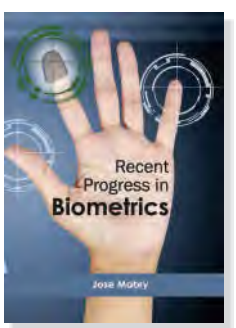
Mobile Multimedia: Technological Aspects

The technological aspects of mobile multimedia are described in this elaborative book. Multimedia mobiles such as smart phones and tablets are fast becoming popular among all ages as their day-to-day computing devices. Users have started to expect multimedia applications and services to run smooth and high-quality at par with desktop experience. The biggest challenge in providing multimedia to mobile devices using the Internet is to ensure a quality experience that meets the expectations of the users within reasonable costs and supporting heterogeneous platforms and wireless network conditions. The purpose of this book is to provide a comprehensive overview of the current and future technologies used for providing high-quality mobile multimedia applications, with emphasis on user experience as the first priority. It discusses the challenges in mobile video delivery as one of the most bandwidth-intensive media which demands pleasant rate of streaming and a user-centric strategy to ensure quality experience. It deals with this challenge by introducing significant concepts for future mobile multimedia coding and the network technologies to deliver quality services.

Communications & Security

Jose Mabry

ISBN: 978-1-63240-443-5
$144.95 US
2015
Book Size: 6”x9”
341pp./Colored
Hardback



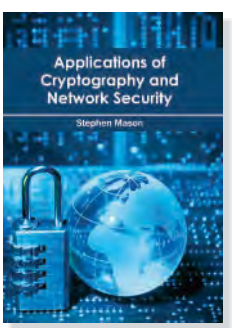
Recent Progress in Biometrics

State-of-the-art information regarding the advances in biometrics has been elucidated in this all-inclusive book. Over the past few years, biometrics has evolved to acquire the position of an underlying technique in diverse applications. In order to achieve greater progress and development, it is vital to identify the ignored challenges of past and the potential problems of future. With latest advancements, newer trends and developments are being identified, so as to distinguish among various biometric traits. This book aims at acquainting the reader about the dynamically changing scenario in the field of biometrics. Various topics, such as recognition based on face thermo pattern, finger-vein, structure of the hand, and performance evaluation reflect both aspects and development in the field of biometrics. Diverse facets of biometrics have also been covered to provide a holistic view on the field of biometrics. The aim of this book is to serve as a helpful guide for students, experts and researchers.

Cryptography

Stephen Mason

ISBN: 978-1-63240-065-9
$149.95 US
2015
Book Size: 6”x9”
388pp./Colored
Hardback

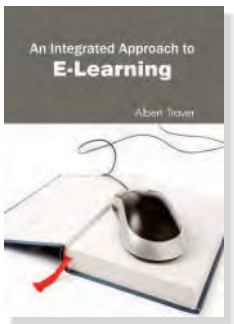


Applications of Cryptography and Network Security

Cryptography is the essential and efficient ingredient to the recipe of security solutions. With the arrival of new age communication systems and high speed networks in the future, cryptography will have a key role to play. This book talks about the crucial security challenges that the computing world is facing today and also discusses several techniques to fight against such attacks. The chapters in this book discuss various facets of cryptography and their applications. It will cater to the needs of researchers, engineers, graduates and PhD students working in this field. It will also be beneficial to teachers at universities and colleges as a reference.

Information & Knowledge Engineering

Albert Traver



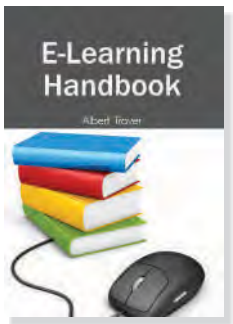
ISBN: 978-1-63240-060-4
$119.95 US
2015
Book Size: 6”x9”
260pp./Colored
Hardback

An Integrated Approach to E-Learning

The term ‘E-Learning’ was coined when electronics, with the personal computer, was well-known and internet was still at its infancy. It is now a flourishing term in schools, universities, and SMEs education and training. As an example, about 3.5 millions of students undertook some or the other online courses in institutions of higher education in 2006 in USA. E-Learning is now defined as the use of network technologies to design, deliver, select, manage and broaden learning and the opportunities made available by the internet to offer to the users; synchronous and asynchronous learning, hence enabling people to access course content anytime and anywhere, provided there is an internet connection. This book covers all the essential aspects related to E-Learning.

Information & Knowledge Engineering

Albert Traver



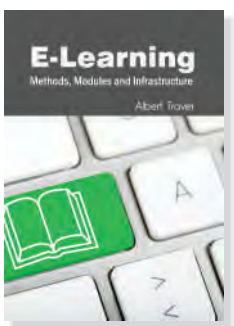
ISBN: 978-1-63240-165-6
$94.95 US
2015
Book Size: 6”x9”
167pp./Colored
Hardback

E-Learning Handbook

E-learning allows students to pace their studies as per their own obligations, making learning achievable to people who don’t get enough spare time for learning, hence, they can schedule their lessons accordingly; as well as to people who live far away from educational institutions or are unable to attend classes because of physical or medical reasons. Therefore, cultural, geographical and physical hurdles can be overcome by E-learning that makes it possible for students to choose their own path and time for learning different courses. This book deals with the challenges that are faced in E-learning, unveiling new ways to understand and confer questions linked with long-distance and lifelong learning, E-learning for people with special demands and, finally, discussing a case study about the relationship between the quality of cooperation and the quality of knowledge achieved in experiences of E-learning formation.

Information & Knowledge Engineering

Albert Traver



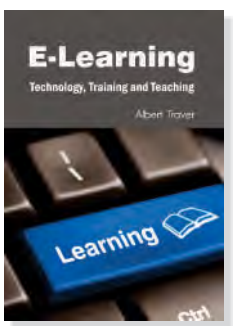
ISBN: 978-1-63240-166-3
$94.95 US
2015
Book Size: 6”x9”
193pp./Colored
Hardback

E-Learning: Methods, Modules and Infrastructure

Technology development, primarily for telecommunications and computer systems, played a key role in the interactivity and, thus, for the expansion of e-learning. This book gives suggestions for dealing with challenges of e-learning, opening new paths of learning and conferring new methodologies to expand the conversing level of classes, and implementing technical tools for aiding students to make improvised use of e-learning resources. The book is divided into sections that talk about the necessary infrastructure for e-learning models and processes, organizational practices, suggestions, implementation of methods for assessing results, case studies targeted on pedagogical aspects that can be implemented generically in diverse environments, and tools that can be adopted by users, for instance, graphic tools for engineering, mobile phone networks, and techniques to build robots. Also, some portions in the book focus specifically on e-learning areas like engineering and architecture.

Information & Knowledge Engineering

Albert Traver



ISBN: 978-1-63240-168-7
$109.95 US
2015
Book Size: 6”x9”
250pp./Colored
Hardback

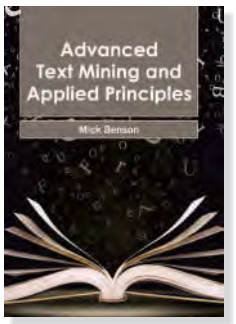
E-Learning: Technology, Training and Teaching

Adaptive E-learning is advisable for students with unique profiles, specific interests, and from various areas of knowledge, so that profiles may be able to contemplate particular aims of the students, altogether with various preferences, knowledge level, learning style, rendering psychological profile, etc. Self-directed learning also needs to be taken into consideration. Self-directed learning, unlike adaptive E-learning, is linked with autonomy in learning; it is a reasonable link for readiness for E-learning, where students direct their own classes as per their own requirements. This book informs us about the On-Job Training and Interactive Teaching for E-learning, talking about the inspirations to be contemplated for E-learning. It also engages with the problems faced in E-learning in fields like engineering, medical education and biological studies; different approaches to E-learning; as well as the implementations of E-learning environments.

Data Mining

Mick Benson

ISBN: 978-1-63240-028-4
$109.95 US
2015
Book Size: 6”x9”
225pp./Colored
Hardback



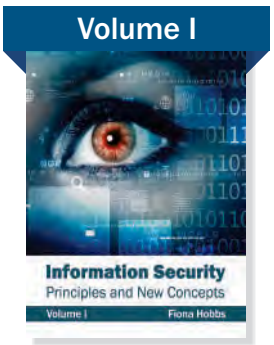
Advanced Text Mining and Applied Principles

This book discusses the topic of advanced text mining and applied principles in detail. Due to the development of computer and web technologies, we are now able to easily compile and store huge amounts of text data. It is believed that data consists of valuable knowledge. Text mining techniques have been dynamically analyzed for the extraction of knowledge from data since late 1990s. Even though many vital methods have been formulated, the text mining research field continues to expand for the needs emerging from distinct application fields. This book provides an introduction of advanced text mining techniques ranging from relation extraction to under or less resourced language. It aims at providing the readers with novel information about the field and assists them in exploring new research fields.

Data Mining

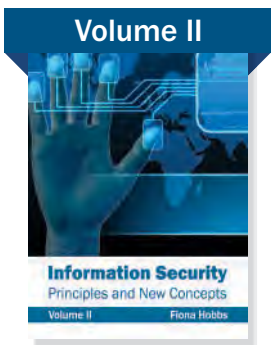
Fiona Hobbs

ISBN: 978-1-63240-306-3
$149.95 US
2015
Book Size: 8.5”x11”
217pp./Colored
Hardback



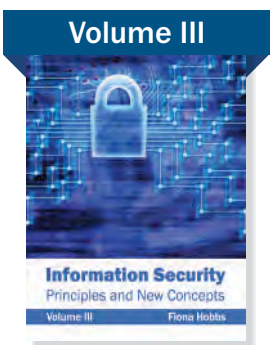
Fiona Hobbs

ISBN: 978-1-63240-307-0
$149.95 US
2015
Book Size: 8.5”x11”
221pp./Colored
Hardback



Fiona Hobbs

ISBN: 978-1-63240-308-7
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback



Fiona Hobbs

ISBN: 978-1-63240-309-4
$149.95 US
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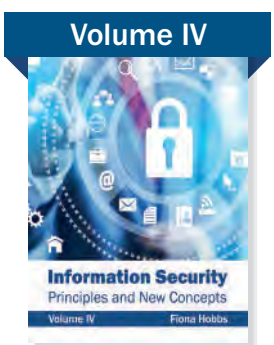
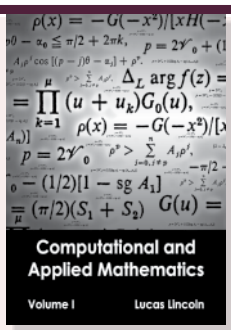
Book Size: 8.5”x11”
209pp./Colored
Hardback



Information Security: Principles and New Concepts

This is the era of information. We can read up about everything on the internet. The data is freely available, thus the important data needs to be secured. Hence, the need for information security has risen in the past few years. This four volume set includes specialised researches on topics related to information security, along with new concepts and theories in this field.

Computational Mathematics



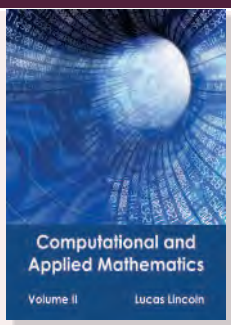
Volume I

Lucas Lincoln

ISBN: 978-1-63240-341-4
$149.95 US
Year 2015
Book Size: 8.5”x11”
223pp./Colored
Hardback

Computational and Applied Mathematics

This book attempts to understand the multiple branches and research projects that fall under the field of computational mathematics and how such research can be useful in 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.



Volume II

Lucas Lincoln

ISBN: 978-1-63240-342-1
$149.95 US
Year 2015
Book Size: 8.5”x11”
221pp./Colored
Hardback

Computational and Applied Mathematics

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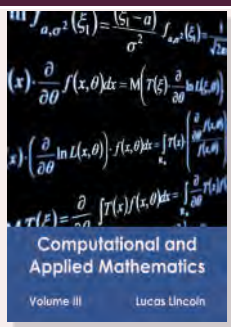


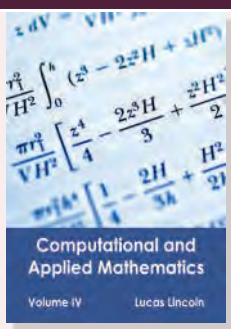
Volume III

Lucas Lincoln

ISBN: 978-1-63240-343-8
$149.95 US
Year 2015
Book Size: 8.5”x11”
218pp./Colored
Hardback

Computational and Applied Mathematics

This book attempts to understand the multiple branches and research projects that fall under the field of computational mathematics and how such research can be useful in 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.



Volume IV

Lucas Lincoln

ISBN: 978-1-63240-344-5
$149.95 US
Year 2015
Book Size: 8.5”x11”
218pp./Colored
Hardback

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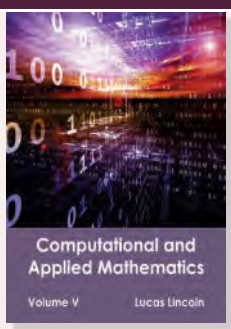


Volume V

Lucas Lincoln

ISBN: 978-1-63240-345-2
$149.95 US
Year 2015
Book Size: 8.5”x11”
203pp./Colored
Hardback

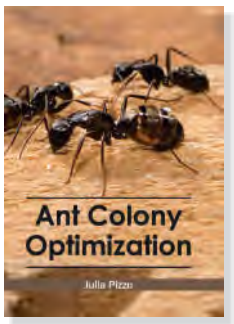
Computational and Applied Mathematics

This book attempts to understand the multiple branches and research projects that fall under the field of computational mathematics and how such research can be useful in 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.

Numerical Analysis

Julia Pizzo

ISBN: 978-1-63240-061-1
$109.95 US
2015
Book Size: 6”x9”
211pp./Colored
Hardback



Ant Colony Optimization

Ant Colony Optimization (ACO) is the best example of how studies intended at understanding and modeling the behavior of ants and other social insects can inspire the development of computational algorithms for the solution of tough mathematical problems. Introduced by Marco Dorigo in his PhD thesis (1992) and initially applied to the travelling salesman problem, the ACO field has experienced an enormous growth, reaching a position of an essential nature-inspired stochastic metaheuristic for optimization of critical problems. This book offers state-of-the-art ACO methods and covers various techniques, comprising of parallel implementations and applications, where current investments of ACO to varied areas, like traffic clog and discipline, structural optimization, manufacturing, and genomics have been demonstrated.

Numerical Analysis

Wendy Witte

ISBN: 978-1-63240-092-5
$79.95 US
2015
Book Size: 6”x9”
119pp./Colored
Hardback

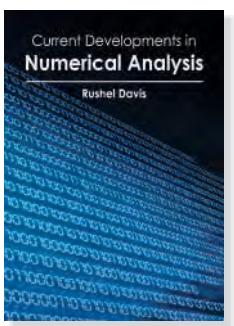
Business Intelligence for Business Development

This book aims to help specialists in the field of informatics, with preoccupations in development of Business Intelligence systems, and to the beneficiaries of the same systems, comprising an essential scientific contribution. Specialists of this field contribute their new ideas and theories concerning the development of Business Intelligence applications and their adoption in organizations. The book presents an overview of Business Intelligence and an in-depth analysis of present applications and forthcoming new ways for this technology. It encompasses a wide range; inclusive of methods, concepts, and case studies regarding: formulating an enterprise business intelligence maturity model, establishing an agile architecture framework that leverages the strengths of business intelligence, decision management and service orientation, data mining based on neural networks.

Numerical Analysis

Rushel Davis

ISBN: 978-1-63240-125-0
$149.95 US
2015
Book Size: 8.5”x11”
209pp./Colored
Hardback



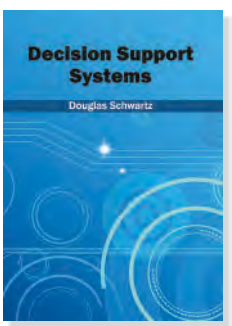
Current Developments in Numerical Analysis

This book attempts to understand the intricacies of numerical analysis that fall under its various branches and how it can be used to our advantage. The various projects that are constantly contributing towards the advancements and evolution of numerical analysis and the prospects of this field are looked at in detail here. The book aims to bring forth some revolutionizing concepts and some innovative approaches in this field.

Numerical Analysis

Douglas Schwartz

ISBN: 978-1-63240-136-6
$119.95 US
2015
Book Size: 6”x9”
281pp./Colored
Hardback



Decision Support Systems

This book presents the state-of-the-art information on decision support systems (DSS). Over the last forty years, DSS have developed from theoretical concepts into the real world computerized applications and they motivate cognitive decision-making functions of humans based on artificial intelligence techniques for the purpose of performing decision support functions. DSS consists of three primary components: user interface, computerized model and knowledge base. The applications of DSS encompass several domains, ranging athwart transportation security, weather forecast, aviation checking, clinical diagnosis and business management to internet search techniques, therefore through the integration of knowledge bases with inference rules DSS are able to present suggestions to end users to enhance results and decisions. This book will serve as a useful resource for both graduate and undergraduate students engaged in computer-related fields as well as for the established professionals as a source of reference.

Numerical Analysis

Niceto Salazar

ISBN: 978-1-63240-140-3
$149.95 US
2015
Book Size: 6”x9”
384pp./Colored
Hardback

Developments and Applications of Image Restoration

This book compiles contributions from across the world in the field of image restoration. It discusses various aspects related to the theory, applications and interdisciplinarity of image restoration. This book emphasizes on some new topics of research that discuss the emergence of some original imaging devices, along with the different aspects of the theory of image restoration. From this arise some challenging difficulties linked with image reconstruction/ restoration that open the path to some advanced fundamental scientific questions closely related to the world with which we interact.

Numerical Analysis

Victor Nason

ISBN: 978-1-63240-147-2
$109.95 US
2015
Book Size: 6”x9”
230pp./Colored
Hardback

Discrete Wavelet Transform

Discrete Wavelet Transform (DWT) is extensively employed in functional as well as numerical analysis. The book provides a concise compilation of some of the latest variants of DWTs and their use in order to formulate solutions to a broad spectrum of problems transcending the conventional application fields of video/image processing and security to the comparatively novel fields of artificial intelligence, telecoms, medicine, and power systems. It includes comprehensive information regarding the traditional applications of DWTs in video resolution improvement, digital image compression and copyright security. Further on it provides information on the variants of DWT and their applications in modeling and simulation recognition of behavioral and physiological traits through human gait and facial images and for the purpose of evaluation of sedation and agitation in intensive care patients. The applications of wavelet transform for the optimization of power control systems is also highlighted efficiently. Furthermore, the book presents state-of-the-art examples and researches for the purpose of elucidating the use of DWTs in the demodulation of FM data in free-space optical control systems and in humanoid-robot vision systems.

Numerical Analysis

Rebecca Cross

ISBN: 978-1-63240-150-2
$109.95 US
2015
Book Size: 6”x9”
212pp./Colored
Hardback

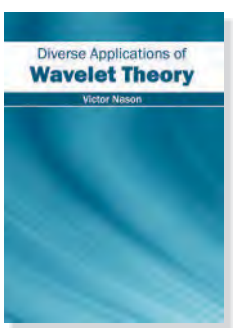
Diverse Applications of Principal Component Analysis

This book emphasizes on the diverse applications of principal component analysis. The aim of this book is to enhance knowledge of scientists, engineers and researchers regarding the advantages of this technique in data analysis. It includes the uses of PCA in distinct fields like agriculture, architecture, taxonomy, pharmacy, ecology, biology, health and finance.

Numerical Analysis

Victor Nason

ISBN: 978-1-63240-151-9
$119.95 US
2015
Book Size: 6”x9”
250pp./Colored
Hardback



Diverse Applications of Wavelet Theory

This book elaborates on Wavelet Theory and its applications in various fields. The application of wavelet transformation to examine the behavior of complex systems from several fields has begun to be widely identified and applied successfully during the past few decades. The book deals with three major aspects of Wavelet Transformation i.e. Electrical Systems, Fault Diagnosis and Monitoring, and Signal Processing. One of the important characteristics of this book is that the wavelet concepts that are applied in engineering, physics and technology have been discussed from a point of view that is recognizable to researchers from different branches of science and engineering. The text of the book is worth utility to a large number of readers.

Numerical Analysis

Jen Blackwood

ISBN: 978-1-63240-252-3
$119.95 US
2015
Book Size: 6”x9”
296pp./Colored
Hardback

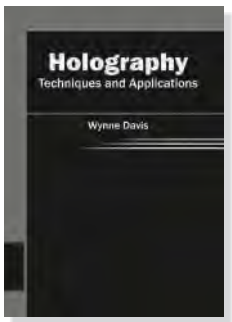
Graph Theory: Researches and Applications

Graph theory is considered to be a crucial analysis tool in computer science and mathematics. Due to the built-in simplicity of graph theory, it can be employed to model several distinct physical and abstract systems like transportation and communication networks, models for business administration, psychology, and political science and so on. The aim of this book is not just to describe the present state and development tendencies of this theory, but to educate the reader enough to enable him/her to embark on the research complications of their own. Taking into consideration the huge amount of knowledge regarding graph theory and practice are elucidated in this book, it focuses on primary topics of theoretical researches. This book intends to serve as a valuable source of reference for students associated with various fields like system sciences, engineering, social sciences, mathematics, computer sciences, etc. as well as for practitioners and software professionals.

Numerical Analysis

Wynne Davis

ISBN: 978-1-63240-298-1
$149.95 US
2015
Book Size: 6”x9”
384pp./Colored
Hardback



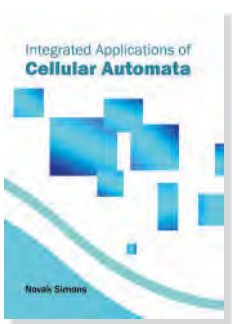
Holography: Techniques and Applications

The various techniques and applications of holography are covered in this profound book. It is an elucidative account on the fundamental principles of holography and current innovative advancement in this area. Topics covered in the book include a discussion on the standards of hologram recording, an extensive review of diffraction in volume gratings and holograms, advanced functions of holography in sensors, holographic gratings and white-light viewable holographic stereograms, digital hologram coding and digital holographic microscopy.

Numerical Analysis

Novak Simons

ISBN: 978-1-63240-311-7
$109.95 US
2015
Book Size: 6”x9”
206pp./Colored
Hardback



Integrated Applications of Cellular Automata

This book describes the integrated applications of cellular automata with the help of valuable information. Cellular automata have become an important topic in the sciences of complexity due to their conceptual simplicity, easiness of implementation for computer simulation and ability to exhibit a wide variety of intricate behavior. These attributes of cellular automata have drawn attention of researchers from a multitude of various fields of science. This book describes some exceptionally innovative cellular automata applications. It highlights the versatility of cellular automata as a model for a diversity of complex systems. This book is an attempt to bring across the efforts of engineers and scientists about the application of cellular automata for solving practical problems in diverse disciplines. All the authors have made substantial contributions in the diverse topics of cellular automata covered in this book.

Numerical Analysis

Jen Blackwood

ISBN: 978-1-63240-322-3
$109.95 US
2015
Book Size: 6”x9”
242pp./Colored
Hardback

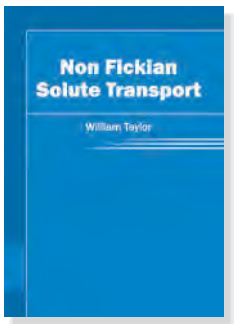
Key Concepts in Graph Theory

This book introduces key concepts in graph theory, which is considered to be a crucial analytical tool in computer science and mathematics. Due to the built-in simplicity of graph theory, it can be employed to model several distinct physical and abstract systems like transportation and communication networks, models for business administration, psychology, and political science and so on. The aim of this book is not just to describe the present state and development tendencies of this theory, but to educate the reader enough to enable him/her to embark on the research complications of their own. Taking into consideration the huge amount of knowledge regarding graph theory and its practice, this book focuses on the applications of graph theory in future electric networks, power systems, algorithms and communication networks. This book intends to serve as a valuable source of reference for students associated with various fields like system sciences, engineering, social sciences, mathematics, computer sciences, etc. as well as for practitioners and software professionals.

Numerical Analysis

William Taylor

ISBN: 978-1-63240-387-2
$109.95 US
2015
Book Size: 6”x9”
240pp./Colored
Hardback



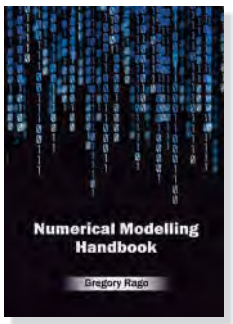
Non Fickian Solute Transport

This research-based book provides a mathematical approach based on stochastic calculus which describes state-of-the-art information regarding porous media science and engineering - prediction of dispersivity from covariance of hydraulic conductivity (velocity). The complication is of great significance for tracer examination, for improved recovery by injection of miscible gases, etc. The book elucidates a generalized mathematical model and efficient numerical methodologies that may greatly affect the stochastic porous media hydrodynamics. It begins with a descriptive basic analysis of the complication of scale dependence of the dispersion coefficient in porous media. Furthermore, relevant topics of stochastic calculus which would be helpful in modeling are discussed subsequently. An in-depth elaborative discussion regarding the development of a generalized stochastic solute transport model for any provided velocity covariance without conferring to fickian expectations from laboratory scale to field scale is also illustrated in this book. The mathematical approaches described in this book will serve as useful solutions for several other complications associated with chemical dispersion in porous media.

Numerical Analysis

Gregory Rago

ISBN: 978-1-63240-397-1
$159.95 US
2015
Book Size: 6”x9”
412pp./Colored
Hardback



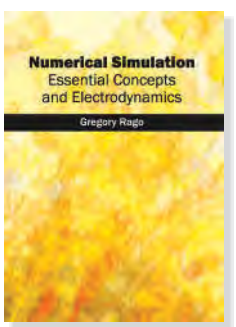
Numerical Modelling Handbook

A descriptive account based on numerical modelling has been presented in this book. It documents case studies and applications developed by veterans for students and professionals associated with the fields of engineering, decision making management, technology, materials and other industries in which mathematical modelling plays a vital role. It elucidates various examples ranging from well-known standards to novelty applications. The term “model” is primarily comprehended as a group of equations which present the variables and interconnections of physical system or procedure. Models are developed and analyzed extensively, and authors cautiously consider the process for formulating a mathematical alternative to a phenomenon under consideration. Advancements in computer technology and associated software have presented several tools of enhancing power for specialists in mathematical modelling. This book will serve as a valuable reference for those interested in the field.

Numerical Analysis

Gregory Rago

ISBN: 978-1-63240-398-8
$149.95 US
2015
Book Size: 6”x9”
348pp./Colored
Hardback



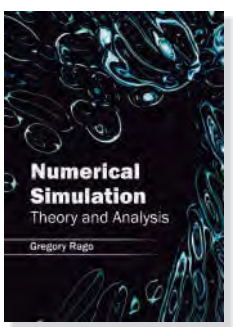
Numerical Simulation: Essential Concepts and Electrodynamics

This book covers the fundamentals as well as contemporary developments of numerical simulation. The simulation applications in macro as well as micro electrodynamics and scientific applications are also presented. Latest numerical methodologies, as well as software, the most precise and enhanced in treating the physical phenomena, are applied for the purpose of explanation of the investigated processes in terms of numbers. Since it plays a significant role in theoretical research, this book regarding simulation of several physical procedures will serve as a useful tool for researchers as well as scientists, applied mathematicians, and post-graduate students.

Numerical Analysis

Gregory Rago

ISBN: 978-1-63240-399-5
$144.95 US
2015
Book Size: 6”x9”
314pp./Colored
Hardback



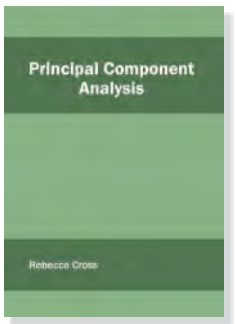
Numerical Simulation: Theory and Analysis

This book encompasses the fundamentals as well as contemporary developments of numerical simulation associated with fluid dynamics in the natural environment and scientific applications. It also discusses numerical simulation in various industrial areas, like metallurgy, power engineering and building. Latest numerical methodologies, as well as software, the most precise and enhanced in treating the physical phenomena, are applied for the purpose of explanation of the investigated processes in terms of numbers. Since it plays a significant role in both industrial and theoretical research, this book regarding simulation of several physical procedures will serve as a useful tool for researchers as well as scientists, industrial engineers, applied mathematicians, and post-graduate students.

Numerical Analysis

Rebecca Cross

ISBN: 978-1-63240-415-2
$119.95 US
2015
Book Size: 6”x9”
300pp./Colored
Hardback



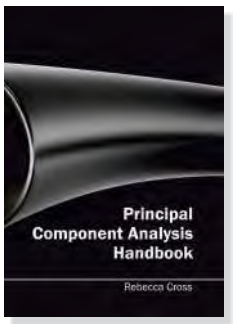
Principal Component Analysis

The aim of this book is to enhance knowledge of scientists, engineers and researchers regarding the advantages of principal component analysis in data analysis. Principal component analysis involves a statistical procedure which orthogonally transforms a set of possibly correlated observations into set of values of linearly uncorrelated variables called principal components. This book elucidates the uses of PCA in distinct fields like face recognition, and image and speech processing. The book also covers core concepts and novel techniques in data analysis and feature extraction.

Numerical Analysis

Rebecca Cross

ISBN: 978-1-63240-416-9
$109.95 US
2015
Book Size: 6”x9”
230pp./Colored
Hardback



Principal Component Analysis Handbook

This book on Principal component analysis (PCA) is a significant contribution to the field of data analysis. PCA involves a statistical procedure which orthogonally transforms a set of possibly correlated observations into set of values of linearly uncorrelated variables called principal components. The aim of this book is to enhance knowledge of scientists, engineers and researchers regarding the advantages of this technique in data analysis and includes information on the uses of PCA in distinct fields like multi-sensor data fusion, ecology, energy, agriculture, climate, image and video processing, gas chromatographic examination, color coating, materials science and automatic target identification.

Numerical Analysis

Adam Houle

ISBN: 978-1-63240-420-6
$109.95 US
2015
Book Size: 6”x9”
236pp./Colored
Hardback

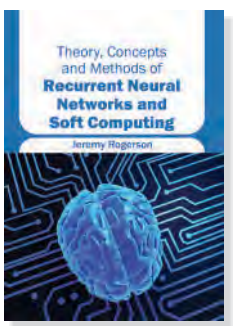
Progress and Applications of Mobile Computing

Mobile Computing is an umbrella term used to refer to various devices that enable people to access information and data from anywhere. This book gives directions on how mobile software services can simplify the mobile users' lives. The main contribution of this book is improving mobile software application in development stages as analysis, design, development and test as well as topics such as recent mobile network technologies like algorithms, decreasing energy consumption in mobile network, and fault tolerance in distributed mobile computing. It also deals with mobile software life cycles, human computer interaction discussing mobile device handset design strategies, and mobile application testing strategies. This book also discusses mobile applications as service, covering various mobile solutions and distinct application sectors.

Numerical Analysis

Jeremy Rogerson

ISBN: 978-1-63240-493-0
$144.95 US
2015
Book Size: 6”x9”
302pp./Colored
Hardback



Theory, Concepts and Methods of Recurrent Neural Networks and Soft Computing

Advanced information regarding the theory, concepts and applications of recurrent neural networks and the field of soft computing has been highlighted in this elaborative book. A broad spectrum of topics is encompassed in this book like neural networks and static modelling, neuro-fuzzy digital filter, ranking indices for fuzzy numbers, controller designs for nonlinear dynamic systems, etc. The aim of this book is to serve as a valuable source of reference for a wide range of readers including scientists, researchers and students. It consists of contributions made by veteran researchers from across the globe.

Numerical Analysis

Elizabeth Robins

ISBN: 978-1-63240-517-3
$94.95 US
2015
Book Size: 6”x9”
165pp./Colored
Hardback

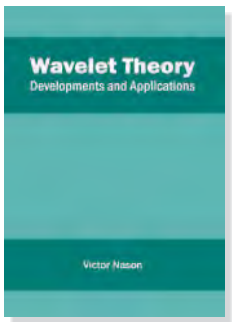
Video Compression Demystified

This book aims to educate readers about the process of video compression using advanced researches and information. Video compression has significantly advanced as a field. However, much research is still underway towards discovering new developments in this domain. With an escalation in the quality of the compressed video for a given size or bit rate, there is also an increase in user’s expectations and their intolerance towards artefacts. Significant progress in compression technology has led to its diverse applications, with essential applications in television broadcast field. Compression technology is the foundation of digital television. This book has been compiled keeping in mind the interests of scientists and development engineers. The purpose of this book is to provide significant information regarding the broader field of compression surpassing the encoder centric approach and to acknowledge the need for video quality assurance. It includes elucidations on compressive and distributed video coding, motion estimation and video quality.

Numerical Analysis

Victor Nason

ISBN: 978-1-63240-521-0
$149.95 US
2015
Book Size: 6”x9”
382pp./Colored
Hardback



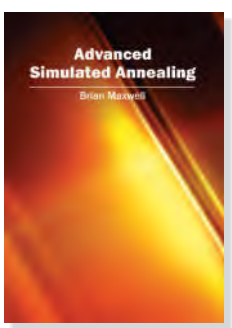
Wavelet Theory: Developments and Applications

Wavelets are functions fulfilling certain mathematical requirements and used in representing data or other functions. The application of wavelet transformation to examine the behavior of complex systems from several fields has begun to be widely identified and applied successfully during the past few decades. The book selectively deals with two major aspects of Wavelet Transformation such as Image Processing and Applications in Engineering. One of the important characteristics of this book is that the wavelet concepts that are applied in engineering, physics and technology have been discussed from a point of view that is recognizable to researchers from different branches of science and engineering. The book is worth utility to a large number of readers interested in the field of study.

Heuristic Algorithms

Brian Maxwell

ISBN: 978-1-63240-026-0
$119.95 US
2015
Book Size: 6”x9”
302pp./Colored
Hardback



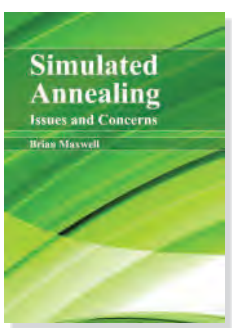
Advanced Simulated Annealing

This book aims to educate the readers with extensive information regarding Advanced Simulated Annealing. It is based on statistical mechanics which suggests that molecules in a liquid move freely at high temperatures but their thermal mobility decreases with the slow reduction of temperature. In the final state, a pure crystal is formed, corresponding to a state of minimum energy. This book compiles contributions of scientists, researchers and experts in this field. It aims to benefit students, teachers and researchers in their study of stimulated annealing.

Heuristic Algorithms

Brian Maxwell

ISBN: 978-1-63240-466-4
$119.95 US
2015
Book Size: 6”x9”
296pp./Colored
Hardback



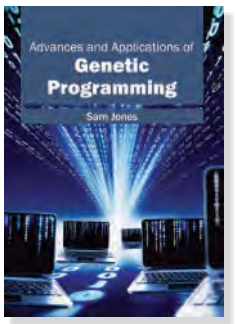
Simulated Annealing: Issues and Concerns

A comprehensive account based on the issues and concerns related to the field of Simulated Annealing has been illustrated in this book. Simulated annealing is a probabilistic meta-heuristic which is utilized for solving both continuous and discrete optimization problems. It is widely used in resolving complex optimization problems due to its advantages over other solution methods. This book gives a detailed account on different aspects of simulated annealing. It covers single and multiple objective applications to provide the readers with extensive knowledge of SA and its various applications. It serves the objective of assisting students and researchers in their related activities by providing practical insights into the subject. The book has been compiled with the contributions of renowned experts and practitioners in this field.

Genetic Algorithms

Sam Jones

ISBN: 978-1-63240-042-0
$119.95 US
2015
Book Size: 6”x9”
298pp./Colored
Hardback



Advances and Applications of Genetic Programming

The evolutionary algorithm-based methodology of genetic programming has been described in this book along with its applications. Genetic programming (GP) is that division of Evolutionary Computing which focuses on the automatic discovery of programs to address a given issue. It was first applied in latter half of twentieth century and made it very easy to compute results in short periods through non-human systems, taking artificial intelligence to a higher level to become one of the most significant programs and the base of a lot of new great discoveries. As the technology is growing every day, GP too has evolved and is still developing very quickly, with latest schemes and functions regularly coming up. This book aims at highlighting the current evolution in the area of GP and also, brings into light the developments which have resolved various issues around the globe. The text is primarily targeting a particular audience of post graduates, researchers, practitioners and learners but will also be useful to the graduate students who want a deeper insight into the subject.

Human Computer Interaction

Stanley Harmon

ISBN: 978-1-63240-024-6
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback

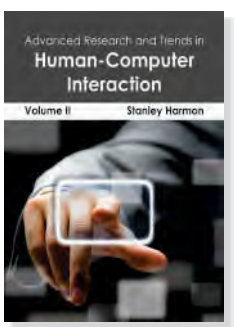
Advanced Research and Trends in Human-Computer Interaction: Volume I

This book attempts to understand the multiple branches that fall under human-computer interactions and how it has ramifications in our lives. The various projects that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail. Researchers and students in search of information to further their knowledge of this field will be greatly assisted by this book.

Human Computer Interaction

Stanley Harmon

ISBN: 978-1-63240-025-3
$149.95 US
2015
Book Size: 8.5”x11”
219pp./Colored
Hardback



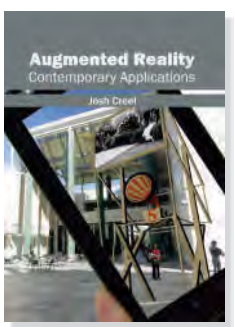
Advanced Research and Trends in Human-Computer Interaction: Volume II

This book attempts to understand the multiple branches that fall under human-computer interactions and how it has ramifications in our lives. The various projects that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail. Researchers and students in search of information to further their knowledge of this field will be greatly assisted by this book.

Human Computer Interaction

Josh Creel

ISBN: 978-1-63240-072-7
$119.95 US
2015
Book Size: 6”x9”
278pp./Colored
Hardback



Augmented Reality: Contemporary Applications

This book presents an overview on the various applications and implementations of the technology of Augmented Reality in the contemporary world. Augmented Reality (AR) complements Virtual Reality (VR) in several ways. It is a natural extension from VR, developed several decades earlier. Due to the benefits of the user being able to see both the real and virtual objects together, AR is far more instinctive, but is not entirely detached from human factors and other restrictions. AR does not utilize much time and effort in its applications because there is no need to construct a whole virtual scene and environment. This book demonstrates novel and developing application areas of AR comprising of applications in outdoor and mobile AR, such as construction, restoration, security and surveillance; a number of new and beneficial applications in daily living and learning; and lastly, dealing with AR in medical, biological, and human body studies.

Human Computer Interaction

Louis George

ISBN: 978-1-63240-089-5
$119.95 US
2015
Book Size: 6”x9”
275pp./Colored
Hardback

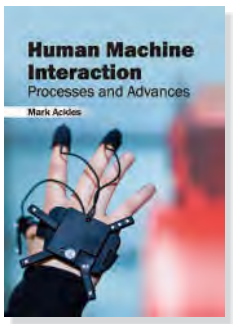
Brain-Computer Interface

This book deals with a class of advanced information regarding brain-computer interface. Brain-computer interface (BCI) systems are like pathways for direct communication between human brain and the computer. In the past few years, this technology has gained significant momentum in terms of research. Many publications have been introduced discussing different models, techniques, signal processing algorithms and their applications. This book provides an overview on recent developments and subsequent aspects of this technology. Some important topics related to BCI which have been discussed in this book are issues concerning end users, use of hybrid and wireless techniques, its application in treating neurological disorder like epilepsy and detecting human emotions, latest signal processing techniques and many more.

Human Computer Interaction

Mark Ackles

ISBN: 978-1-63240-299-8
$119.95 US
2015
Book Size: 6”x9”
272pp./Colored
Hardback



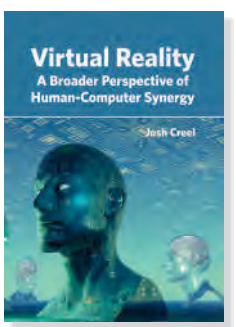
Human Machine Interaction: Processes and Advances

This book consists of a set of researches focusing on various proposals centred on the human-machine interaction development process. The reader is also introduced to various forms of interaction, with a particular emphasis on physical interaction.

Human Computer Interaction

Josh Creel

ISBN: 978-1-63240-518-0
$144.95 US
2015
Book Size: 6”x9”
318pp./Colored
Hardback



Virtual Reality: A Broader Perspective of Human-Computer Synergy

Virtual reality has been a major influence in the development of information organization and management. Furthermore, it has also changed the process of designing information systems to make them more suitable for required applications. This book covers a wide range of applications of virtual reality and developments occurring in this field. The book discusses the applications of virtual reality in varied fields such as robot technology, industry and construction, and multimedia technology. This book will be beneficial for readers interested in learning more about the field of virtual reality.

Artificial Intelligence

Akira Hanako

ISBN: 978-1-63240-008-6
$149.95 US
2015
Book Size: 8.5”x11”
195pp./Colored
Hardback

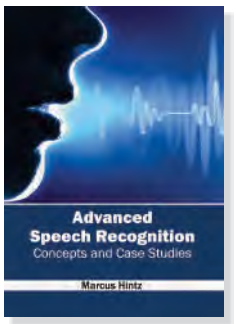
A Modern Approach to Artificial Intelligence

The constant and almost alarmingly rapid evolution towards a world where AI would not only be possible but also pervade is not always easy to accept or understand. The various sub fields of Artificial Intelligence along with the technological advancements that are expected in the said fields are given due importance here. This book attempts to assist those with a goal of delving into the field of AI.

Artificial Intelligence

Marcus Hintz

ISBN: 978-1-63240-027-7
$144.95 US
2015
Book Size: 6”x9”
338pp./Colored
Hardback



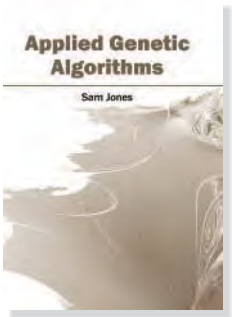
Advanced Speech Recognition: Concepts and Case Studies

This book majorly emphasizes on speech recognition and the associated tasks like speech optimization and modeling. Renowned veteran researchers from across the globe have contributed significant information in this profound book. The aim of this book is to serve as a comprehensive source of information and assist a broad spectrum of readers.

Artificial Intelligence

Sam Jones

ISBN: 978-1-63240-067-3
$144.95 US
2015
Book Size: 6”x9”
330pp./Colored
Hardback



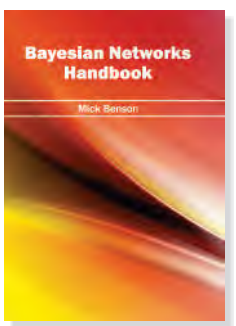
Applied Genetic Algorithms

Genetic Algorithms (GA) are one of the various methods in the family of evolutionary algorithms that seek answers to developing questions by providing better solutions. Its applications can be observed in science, engineering, business and social sciences. In this book, the reader will get introduced to some applications in automatic control, scheduling of resources, electrical and electronics engineering. It also demonstrates various examples of character recognition and multi-criteria categorization, as well as trading systems. Therefore, this book will be useful to engineers and scientists belonging to different fields of specialization who need some evolutionary techniques in their work and for those readers who may be using Genetic Algorithms in their work for the first time.

Artificial Intelligence

Mick Benson

ISBN: 978-1-63240-075-8
$79.95 US
2015
Book Size: 6”x9”
125pp./Colored
Hardback



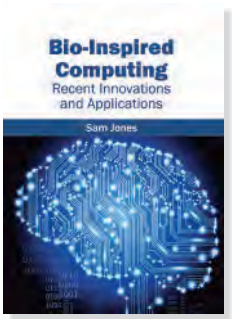
Bayesian Networks Handbook

A Bayesian network is also known as a Bayes network, belief network or causal probabilistic network. Bayesian belief networks are effective tools to incorporate different information sources with varying levels of uncertainty in a mathematically secure and calculatively effective way. A Bayesian network is a graphical model that ciphers probabilistic relationships among variables of interest. This graphical paradigm has a few significant advantages: firstly, due to the dependencies among all the variables, missing nodes data is also compensated; secondly, belief network sets up the simple relationships and it is easier to identify problematic areas and consequences; thirdly, it has both casual and probabilistic semantics; and lastly, this method along with statistical method provides efficient and balanced approach to avoid over fitting of data. This book analytically and comprehensively describes various aspects of Bayesian networks which will be of great help to students, researchers and professionals in various fields which utilize applications of this model system.

Artificial Intelligence

Sam Jones

ISBN: 978-1-63240-081-9
$159.95 US
2015
Book Size: 6”x9”
435pp./Colored
Hardback



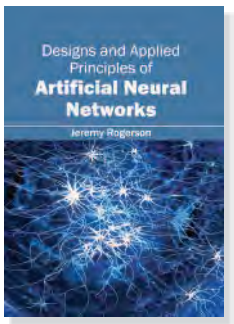
Bio-Inspired Computing: Recent Innovations and Applications

The book deals with the recent innovations and applications of bio-inspired computing. Bio-inspired computational algorithms are an evolving discipline of research in the genre of artificial intelligence. Highly efficient and autonomous intelligent artifacts are built for operations in tough and unpredictable conditions and perplexed biology is the inspiration. This book caters to the people who are enthralled with the idea of designing artifacts with chronic intelligence and want to work on it. This book provides complete assistance with respect to design, engineering, security etc. for the idea to work out. It is the amalgamation of genetic algorithms, artificial immunity, particle swarm optimization and hybrids to redeem numerous glitches throughout the world. The research articles provide improvised level of algorithm performances, probable applications and hybrid of different techniques. This would cater to the students, scientists and practitioners regarding artificial intelligence and engineering.

Artificial Intelligence

Jeremy Rogerson

ISBN: 978-1-63240-138-0
$119.95 US
2015
Book Size: 6”x9”
261pp./Colored
Hardback



Designs and Applied Principles of Artificial Neural Networks

This book presents a broad overview on the current various design modules and applications of artificial neural systems. Artificial neural networks are often dubbed as one of the most acknowledged technologies in the past twenty years. It has been broadly applied in a wide diversity of applications. The aim of this book is to present current developments of architectures, methodologies, and usage of artificial neural networks. The topics in this book majorly deal with two important aspects: the architecture aspect involving dealing with architectures, design, optimization, and the analysis of artificial neural networks; and the application aspect dealing with applications of artificial neural networks in a broad spectrum of areas comprising of biomedical, industrial, physics, and financial applications. This book will be an important source of reference for graduate students and engineers in various organizations.

Artificial Intelligence

Dennis Rankin

ISBN: 978-1-63240-153-3
$79.95 US
2015
Book Size: 6”x9”
105pp./Colored
Hardback

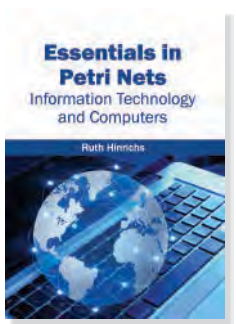
Document Recognition: Advances and Developments

The latest advances and developments in the field of document recognition are comprehensively presented in this extensive book. Camera-captured documents, natural scene images and videos have emerged as the new-age document recognition media due to the development of new media and internet. Advancements in novel techniques such as distinction of characters from non-characters, quick retrieval techniques from large-scaled scanned documents, character detection from complex backgrounds, unconstrained handwriting recognition and multi-lingual OCR among many others have led to breakthroughs in this field. This book serves the objective of presenting new ideas, latest developments and applications of crucial importance in document understanding and recognition. It presents technical topics such as feature classification or extraction, image processing and novel applications such as character-based natural scene analysis and camera-based recognition.

Artificial Intelligence

Ruth Hinrichs

ISBN: 978-1-63240-228-8
$119.95 US
2015
Book Size: 6”x9”
312pp./Colored
Hardback



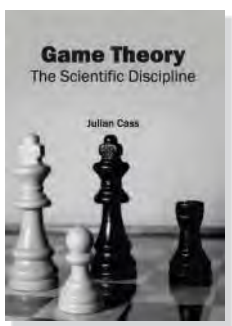
Essentials in Petri Nets: Information Technology and Computers

This book concentrates on the applications of Petri Nets in computer science. Petri Nets are graphical and mathematical tools, and the synchronism of executed actions is the natural phenomenon because of which Petri Nets are considered as mathematical tools for modeling synchronous systems. The primary idea of this theory was modified by several researchers according to their needs, owing to the odd “flexibility” of this theory. This area has great influence on our lives and our world. This theory is still developing and some directions of investigations are also encompassed in this book. Some flourishing facts regarding the application of Petri Nets in the public domain are also covered including the in-depth study and control of public bicycle sharing systems. The book displays the results of research works done with the help of Petri Nets in science centers across the globe.

Artificial Intelligence

Julian Cass

ISBN: 978-1-63240-246-2
$149.95 US
2015
Book Size: 6”x9”
357pp./Colored
Hardback



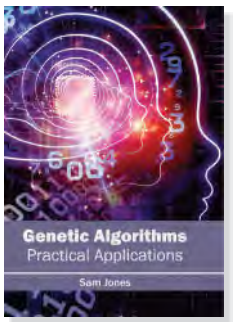
Game Theory: The Scientific Discipline

This book brings forth novel insights and unique perspectives to the various theories and possibilities of the intriguing subject of game theory. Assessing the situation, applying tactics and taking risks based on statistical logic and evidence for the best outcomes is the most intriguing characteristic of game theory. The basis of this theory is taking decisions that transcend the conventional rules of a game. Intense research since 1942 has given rise to a well-founded, calculated and documented mathematical process. But there has been a greater scope of possibilities for this theory. During the past few decades, the logic of game theory has found applications in various other fields varying from biology to engineering. This text is a collection and compilation of various research works on game theory coming from various domains of scientific spectrum which have found relevant applications in economics, politics, history, engineering, mathematics, physics, and psychology. Although all these fields hold significant differences right from their basic features till advanced applications, there is a common thread of applications of some or the other method of game theory that binds them together.

Artificial Intelligence

Sam Jones

ISBN: 978-1-63240-248-6
$149.95 US
2015
Book Size: 6”x9”
376pp./Colored
Hardback



Genetic Algorithms: Practical Applications

The aim of this book is to present state-of-the-art information regarding the practical applications of genetic algorithms. It discusses latest issues and provides insights into various theoretical and technical aspects of evolutionary multi-objective optimization problems and several design challenges using various hybrid intelligent approaches. Multi-objective optimization, which has been available for nearly two decades, is now being widely applied in real-world problems. Also, using hybrid systems approach enables applications to function more effectively. Several distinct methodologies based on fuzzy sets, artificial neural network, automata theory, and other metaheuristic or classical algorithms have also been elucidated in this extensive book. It elucidates several examples of algorithms in distinct real-world application fields, such as graph growing complication, scheduling problems, speech synthesis, antenna design, travelling salesman problem, gene design, modeling of biochemical and chemical processes etc.

Artificial Intelligence

Tom Halt

ISBN: 978-1-63240-329-2
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback

Latest Research in Computational Intelligence and Soft Computing: Volume I

This book is focused on applied and soft computation which is one of the most important aspects of computer science in present day scenario due to its endless applications in different fields of engineering and sciences. This book has several contributors, all of them leading authorities from various parts of the world. All the chapters have been thoroughly reviewed and updated while preserving the contributor’s view in a uniform format. This book will help computer engineers in their future, and will serve as an advanced guide on soft computing.

Artificial Intelligence

Tom Halt

ISBN: 978-1-63240-330-8
$149.95 US
2015
Book Size: 8.5”x11”
224pp./Colored
Hardback

Latest Research in Computational Intelligence and Soft Computing: Volume II

This book is focused on applied and soft computation which is one of the most important aspects of computer science in present day scenario due to its endless applications in different fields of engineering and sciences. This book has several contributors, all of them leading authorities from various parts of the world. All the chapters have been thoroughly reviewed and updated while preserving the contributor’s view in a uniform format. This book will help computer engineers in their future, and will serve as an advanced guide on soft computing.

Artificial Intelligence

Martha Lesley

ISBN: 978-1-63240-332-2
$149.95 US
2015
Book Size: 8.5”x11”
200pp./Colored
Hardback

Machine Vision and its Applications

This book provides insights on the past, present and future of machine vision. It also delves into the questions of man vs. machine and economic changes that can be brought about by the insertion of machine vision into more and more areas of the industrial and scientific workforce. It will be helpful to those who are looking for collected work that explains the intricacies of machine vision and its importance in today’s world.

Artificial Intelligence

Alexander Toker

ISBN: 978-1-63240-333-9
$119.95 US
2015
Book Size: 6”x9”
284pp./Colored
Hardback

Machine Vision: Technology and Applications

Vision plays a significant role for human beings by permitting them to communicate with their surroundings in an effective and efficient way. The major aim of machine vision is to bestow artificial systems with enough efficiency to manage without prior predetermined conditions. For this conclusion, the computing constraints of the hosting architectures and the particulars of the tasks to be performed have to be taken into consideration, along with constant adapting and optimizing of the visual processing techniques. However, by exploiting the low cost computational power of off-the-shell computing devices, machine vision is not restricted to industrial environments, where conditions and tasks are made easy and specific, but it is now pervasive to support system solutions of everyday life difficulties.

Artificial Intelligence

Akira Hanako

ISBN: 978-1-63240-357-5
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback

Modern Approach to Artificial Intelligence: Volume I

This book is an effort to bring together data on the various researches going on at present around the world in the field of artificial intelligence. A discussion on the various methods of research as well as a glance at the new and evolving concepts in this field is provided. This book aims to present the data in the most comprehensible form. It compiles contributions from renowned experts from across the globe to keep the readers up-to-date with the progress of this field.

Artificial Intelligence

Akira Hanako

ISBN: 978-1-63240-358-2
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback

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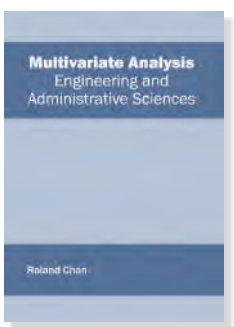
Artificial Intelligence

Roland Chan

ISBN: 978-1-63240-369-8
$119.95 US
2015
Book Size: 6”x9”
266pp./Colored
Hardback



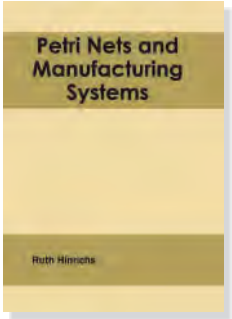
Multivariate Analysis: Engineering and Administrative Sciences

This book presents the state-of-the-art information of multivariate analysis and its application in various fields. Currently, statistical knowledge has become an essential need and holds a significant position in the exercise of various professions. The procedures have a huge volume of data in the real world, and are naturally multifarious and as such, need an appropriate treatment. For these conditions it is problematic or practically not possible to utilize methodologies of univariate statistics. The broad spectrum of applications of multivariate strategies and the necessity to spread them more significantly in academics and business justify the creation of this book. The aim of this book is to illustrate interdisciplinary applications to recognize trends, patterns, relations and dependencies, in the fields of engineering, sciences and management and to serve as a valuable source of reference for both veteran researchers and engaged professionals in the field.

Artificial Intelligence

Ruth Hinrichs

ISBN: 978-1-63240-406-0
$109.95 US
2015
Book Size: 6”x9”
203pp./Colored
Hardback



Petri Nets and Manufacturing Systems

This book concentrates on the applications of Petri Nets in manufacturing. Petri Nets are graphical and mathematical tools, and the synchronism of executed actions is the natural phenomenon because of which Petri Nets are considered as mathematical tools for modeling synchronous systems. The primary idea of this theory was modified by several researchers according to their needs, owing to the odd “flexibility” of this theory. The theory is still cultivating and some directions of investigations are also encompassed in this book.

Artificial Intelligence

Dennis Rankin

ISBN: 978-1-63240-421-3
$109.95 US
2015
Book Size: 6”x9”
244pp./Colored
Hardback

Progress in Character Recognition

This book discusses the progress in character recognition with the help of descriptive information. It offers insight into the developments in character recognition, and it discusses wide range of topics on various facets of character recognition. This book will serve as a helpful source of reference for academic research, for professionals working in the character recognition areas and for all people interested in this subject.

Artificial Intelligence

Elizabeth Robins

ISBN: 978-1-63240-441-1
$79.95 US
2015
Book Size: 6”x9”
133pp./Colored
Hardback

Recent Advances in Video Surveillance

This book explains the growing importance of video surveillance. Surveillance cameras are present at nearly all places streaming thousands of hours of video. But a major issue of concern is whether the footage collected can be effectively analyzed to find subjects/events of interest and prevent potential accidents. This book addresses these concerns and other major problems by skillfully combining the research experience of experts with practical real life applications. It serves as a significant reference for researchers and students by providing relevant information, pointers to advances in the field and useful description on modern applications. It also provides guidance for existing problems where further advances can be pursued.

Artificial Intelligence

Rowland Wilson

ISBN: 978-1-63240-456-5
$149.95 US
2015
Book Size: 8.5”x11”
207pp./Colored
Hardback

Robotics: Current Advances and Future Prospects

This book is an attempt to collate the data available on the multifaceted field of study of robotics and the complexities of what makes a robot what it is. The book explores the possibility of interactions between robots of different capabilities and how it can impact Robotics. Certain broad general categorizations of robots as well as existing and new applications for them are discussed here. These topics will be helpful to those who want to gather some advanced knowledge in the field of Robotics.

Artificial Intelligence

Marcus Hintz

ISBN: 978-1-63240-471-8
$79.95 US
2015
Book Size: 6”x9”
149pp./Colored
Hardback

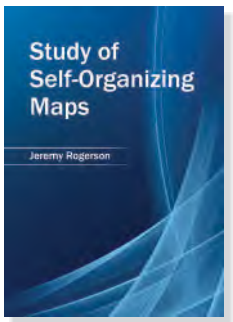
Speech Recognition and Processing: Algorithms and Applied Principles

Speech recognition technique has proven to be significantly beneficial in the domain of Artificial Intelligence. This book is based on speech processing and recognition. It consists of information provided by top researchers from Italy, Tunisia, India, Netherlands, Canada and Finland. Topics like speech recognition, noise cancellation, speech enhancement and emotion recognition have been described in this book. Important techniques like voice conversion and multi resolution spectral analysis have also been elucidated. The book consists of both original research works as well as surveys along with the applications of the technology in various scientific fields. The aim of this book is to serve as a good source of knowledge for students and researchers related to this field.

Artificial Intelligence

Jeremy Rogerson

ISBN: 978-1-63240-473-2
$119.95 US
2015
Book Size: 6”x9”
297pp./Colored
Hardback



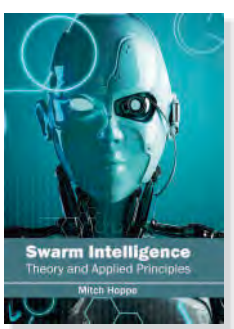
Study of Self-Organizing Maps

This book presents analysis and applications of self-organizing maps in various domains. The self-organizing map, first explained by Finnish scientist Teuvo Kohonen, can be used for a broad spectrum of fields and this book explains how the original self-organizing map along with its variants and extensions can be applied in diverse fields. These applications comprise of the examination of financial stability, the fault diagnosis of plants, the generation of well-composed heterogeneous teams and the application of the self-organizing map to atmospheric sciences.

Artificial Intelligence

Mitch Hoppe

ISBN: 978-1-63240-480-0
$109.95 US
2015
Book Size: 6”x9”
206pp./Colored
Hardback



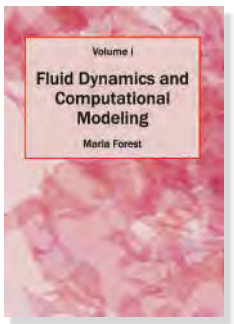
Swarm Intelligence: Theory and Applied Principles

Swarm Intelligence is the field of research related to the study of emergent cumulative intelligence of self-organized and decentralized elementary agents. It is based on social behavior that can be seen in nature, like fish schools and bee hives, where numerous individuals with confined capabilities are able to formulate intelligent solutions for complicated problems. The community of computer science has already understood the significance of emergent behaviors of complex problem solving. This book describes latest developments in this field, primarily on novel swarm-based enhancement techniques and hybrid algorithms for numerous applications. The aim of this book is to educate the readers about the technical as well as theoretical applications and aspects of Swarm Intelligence.

Fluid Dynamics

Maria Forest

ISBN: 978-1-63240-238-7
$159.95 US
2015
Book Size: 6”x9”
448pp./Colored
Hardback



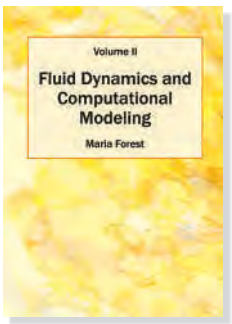
Fluid Dynamics and Computational Modeling: Volume I

This book contains updated information on topics like fluid dynamics, computational modeling and its applications, and aims to help scientists, engineers, and graduate students as a general reference. It discusses topics like: winds, building and risk prevention; multiphase flow, structures and gases; heat transfer, combustion and energy; medical and biomechanical applications; and other crucial topics. Along with all that has been mentioned, this book also gives a detailed view of computational fluid dynamics and applications, without excluding experimental and theoretical aspects.

Fluid Dynamics

Maria Forest

ISBN: 978-1-63240-239-4
$109.95 US
2015
Book Size: 6”x9”
226pp./Colored
Hardback



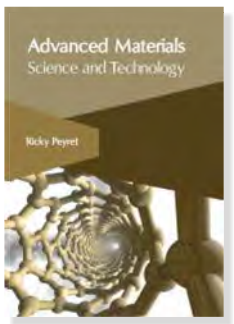
Fluid Dynamics and Computational Modeling: Volume II

This book contains updated information on topics like fluid dynamics, computational modeling and its applications. It discusses topics like: winds, building and risk prevention; multiphase flow, structures and gases; heat transfer, combustion and energy; medical and biomechanical applications; and other crucial topics. Along with all that has been mentioned, this book also gives a detailed view of computational fluid dynamics and applications, without excluding experimental and theoretical aspects.

Mechanical Engineering

Ricky Peyret

ISBN: 978-1-63240-628-6
$132.95 US
2017
Book Size: 7”x10”
216pp./Colored
Hardback



Advanced Materials: Science and Technology

Materials Science is a rapidly innovating field. Advanced materials are novel materials that have been modified to obtain desired characteristics that would be useful for specialized applications like lubrication in engine oil, superior conductivity in electrolytes etc. Ceramics, polymers and semiconductors are some examples of advanced materials. Comprehensive insights have been provided in this book to help the readers develop a better understanding of this discipline. This book discusses the science and technology behind the development of advanced materials. 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 advanced materials.

Mechanical Engineering

Rene Sava

ISBN: 978-1-63240-580-7
$132.95 US
2017
Book Size: 8.5”x11”
214pp./Colored
Hardback

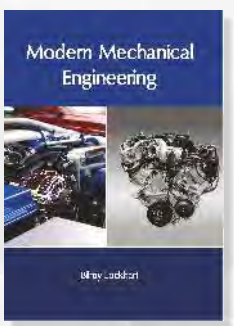
Mechanical Engineering: Principles and Practices

The aim of this book is to present researches that have transformed the discipline of mechanical engineering and aided its advancement. This discipline studies the applications of engineering in manufacturing, designing and maintenance of mechanical systems. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of mechanical engineering. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of this discipline. The text sheds light on the various principles and practical aspects of mechanical engineering. For all readers who are interested in this discipline, the case studies included in this book will serve as an excellent guide to develop a comprehensive understanding.

Mechanical Engineering

Bilroy Lockhart

ISBN: 978-1-63240-595-1
$144.95 US
2017
Book Size: 8.5”x11”
235pp./Colored
Hardback



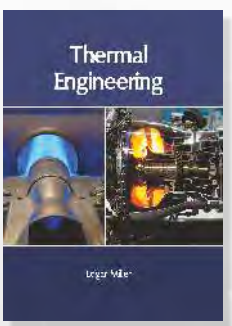
Modern Mechanical Engineering

This book on modern mechanical engineering discusses the theoretical background of mechanical engineering and its relation to techniques such as computer-aided design and computer-aided manufacturing. The various advancements in mechanical engineering are glanced at in this book and their applications as well as ramifications are looked at in detail. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included herein. As this field is emerging at a fast pace, this book will help the readers to better understand the concepts of mechanical engineering. It is a complete source of knowledge on the present status of this important field.

Mechanical Engineering

Edgar Miller

ISBN: 978-1-63240-617-0
$149.95 US
2017
Book Size: 8.5”x11”
241pp./Colored
Hardback



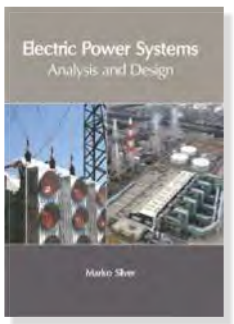
Thermal Engineering

Thermal engineering is the study of heat and its transferability between bodies as well as transformation into energy, especially electricity. This book on thermal engineering studies the advanced concepts of thermal engineering and its applications in various sectors. This book aims to shed light on some of the unexplored aspects of thermal engineering and the recent researches in this field. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. It is appropriate for students seeking detailed information in this area as well as for experts.

Electrical Engineering

Marko Silver

ISBN: 978-1-63240-600-2
$149.95 US
2017
Book Size: 8.5”x11”
250pp./Colored
Hardback



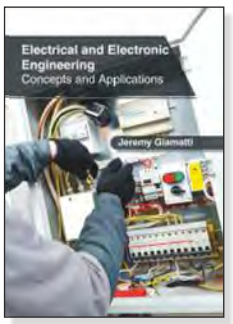
Electric Power Systems: Analysis and Design

Electric power systems are highly effective ways to transmit electrical energy for public and private use. The grid is the most popular form of electric power system which can be divided into generators, distribution system and transmission system. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. The various advancements in electric power systems are glanced at and their applications as well as ramifications are discussed herein. The book is appropriate for students seeking detailed information in this area as well as for experts. It will help the readers in keeping pace with the rapid changes in the field of electrical engineering.

Electrical Engineering

Jeremy Giamatti

ISBN: 978-1-63240-624-8
$149.95 US
2017
Book Size: 7.75”x10.5”
242pp./Colored
Hardback



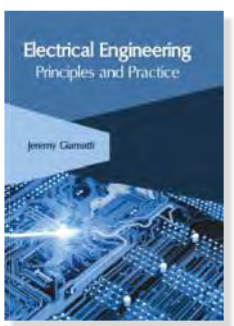
Electrical and Electronic Engineering: Concepts and Applications

Electrical engineering is a field that studies the principles and applications of electricity and the technology that has been developed around it. This book elucidates new techniques and their applications in a multidisciplinary approach. It consists of contributions made by international experts. It seeks to provide comprehensive information dealing with the various sub-disciplines of electrical engineering and the technological advancements in these areas of study. Detailed information is provided in a simple and analytical manner. For all readers who are interested in electrical and electronic engineering, the case studies included in this book will serve as excellent guide to develop a comprehensive understanding.

Mechanical Engineering

Jeremy Giamatti

ISBN: 978-1-63240-627-9
$137.95 US
2017
Book Size: 7”x10”
229pp./Colored
Hardback



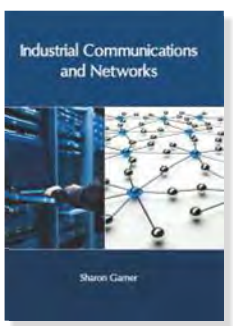
Electrical Engineering: Principles and Practice

Electrical engineering involves the analysis and use of electromagnetism, electronics and electricity. The objective of this book is to explain the principles and practices utilized in this field. Developments in this field have been noticed since the later half of the 19th century, since the introduction of telegraph, telephone, etc. The aim of this book is to present researches that have transformed this discipline and aided its advancement. The ever growing need of advanced technology is the reason that has fueled the research in the field of electrical engineering in recent times. This book presents the fundamentals as well as modern approaches of electrical engineering. Coherent flow of topics, student-friendly language and extensive use of examples make this book a reliable resource guide.

Industrial Engineering

Sharon Garner

ISBN: 978-1-63240-635-4
$132.95 US
2017
Book Size: 8.5”x11”
219pp./Colored
Hardback



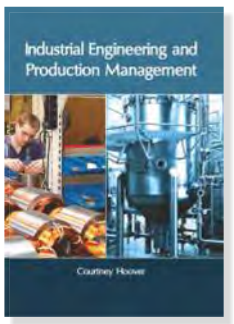
Industrial Communications and Networks

Wireless communications are the primary means of industrial communications. They facilitate faster and accurate communication as well as transfer of data for varied purposes. The ever growing need of advanced technology is the reason that has fueled the research in this field in recent times. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of industrial communications and networks. It is appropriate for students seeking detailed information in this area as well as for experts. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of industrial communications as easy and informative as possible, for the readers.

Industrial Engineering

Courtney Hoover

ISBN: 978-1-63240-584-5
$132.95 US
2017
Book Size: 8.5”x11”
216pp./Colored
Hardback



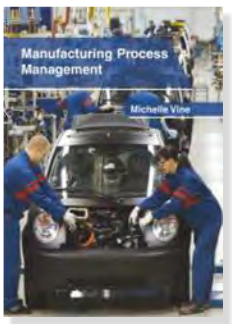
Industrial Engineering and Production Management

Industrial Engineering is a vast field of study. It involves the optimization of various complex process associated with industrial output. Production management is a sub-set of Industrial Engineering and is primarily concerned with the production of goods. This elaborate book traces the progress and conjunction of this field and highlights some of the key concepts and applications. It presents researches and studies performed by experts across the globe. Those with an interest in industrial engineering and production management would this book helpful. It will serve as a reference for graduate and post graduate students.

Industrial Engineering

Michelle Vine

ISBN: 978-1-63240-625-5
$137.95 US
2017
Book Size: 7.75”x10.5”
221pp./Colored
Hardback



Manufacturing Process Management

This book on manufacturing process management discusses the entire cycle of the manufacturing process. This includes the conversion of raw materials to the finished commodity. Topics included in this book delve into the efficient, effective and improved methods by which goods are produced. It traces the progress of this field and highlights some of its key concepts and applications. It includes some of the vital pieces of work being conducted across the world, on various topics related to manufacturing process and its management. All the processes of the life cycle of a commodity are described in detail. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area. It will be very useful to students and teachers in the fields of industrial engineering, supply chain management and manufacturing engineering.

Control Theory

Marques Vang

ISBN: 978-1-63240-581-4
$154.95 US
2017
Book Size: 8.5”x11”
253pp./Colored
Hardback

Control and Automation: Devices, Systems and Engineering Applications

The ever-growing need of advanced technology is the reason that has fueled the research in the field of control and automation in recent times. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the field. Automation is the practice of using control systems in order to operate machinery like boilers, ovens, aircrafts, ships, etc. While reducing the cost of production, automation also helps in saving energy and time and improves quality and precision. The elements used in this area of science and engineering are of electrical, hydraulic, electronic, computer, mechanical devices, systems and engineering. Different approaches, evaluations, methodologies and advanced studies on this subject have been included in this text. It will serve as a reference to a broad spectrum of readers. This book presents the complex subjects of control and automation in the most comprehensible and easy to understand language.

Control Theory

Chester Mann

ISBN: 978-1-63240-626-2
$144.95 US
2017
Book Size: 7.75”x10.5”
233pp./Colored
Hardback

Control Systems: Theory and Applications

Control systems are devices that follow basic to complex protocol in order to control other devices or systems. This book on control systems deals with the complex set of advanced theories associated with already existing control systems and practices related to them. While understanding the long-term perspectives of the topics, the book makes an effort in highlighting their impacts as a modern tool for the growth of the discipline. For all readers who are interested in control systems, the case studies included in this book will serve as excellent guide to develop a comprehensive understanding. This book will be of great help to students and experts in the fields of systems theory, automation and actuators.

Wireless Networking

Timothy Kolaya

ISBN: 978-1-63240-596-8
$144.95 US
2017
Book Size: 8.5”x11”
235pp./Colored
Hardback

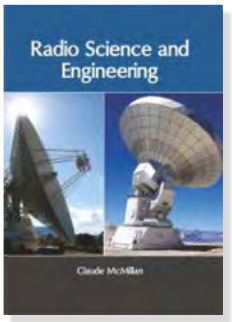
Mobile Computing and Wireless Communications

Mobile computing is a form of human-computer interaction facilitated by wireless communications. Some of the significant aspects of this field include mobile communications, mobile software, data transmission, etc. There has been rapid progress in this field and its applications are finding their way across multiple industries. This book includes contributions of experts and scientists which will provide innovative insights into this field. 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 be of great help to students and teachers in the fields of telecommunications, wireless engineering and software engineering.

Wireless Networking

Claude McMillan

ISBN: 978-1-63240-586-9
$144.95 US
2017
Book Size: 8.5”x11”
239pp./Colored
Hardback



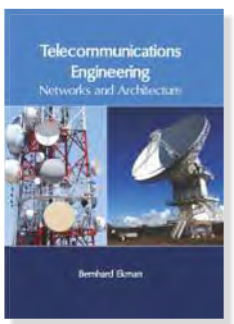
Radio Science and Engineering

Radio science is defined as the study of range and travel of radio waves in various environments. This book on radio science discusses the new scientific procedures that employ radio sciences and the different technologies that are developed for its induction, transmission and reception. Statistics and data that could predict atmospheric changes as well as long-term changes in the earth’s climate and biosphere can be calculated using analyses and methodology used in radio science. This book is a valuable compilation of topics ranging from the basic to the most complex advancements in the field of radio science. The aim of this text is to present researches that have transformed this discipline and aided its advancement. This book will prove helpful for students and researchers in the fields of radio science and related fields like astronomy, radiation and nuclear physics.

Wireless Networking

Bernhard Ekman

ISBN: 978-1-63240-597-5
$149.95 US
2017
Book Size: 8.5”x11”
249pp./Colored
Hardback



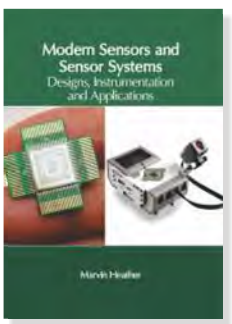
Telecommunications Engineering: Networks and Architecture

Telecommunications engineering studies the development of networks that are used for communication between separate groups. Technological innovations in this field, both in terms of devices as well as transmission, have led to designing of advanced telecommunications networks. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of telecommunications engineering. It aims to present researches that have transformed this discipline and aided its advancement. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

Sensors

Marvin Heather

ISBN: 978-1-63240-587-6
$144.95 US
2017
Book Size: 8.5”x11”
232pp./Colored
Hardback



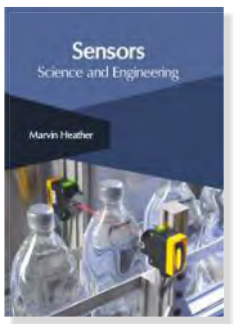
Modern Sensors and Sensor Systems: Designs, Instrumentation and Applications

This book unravels the recent studies in the field of modern sensors and sensor systems. It presents researches and studies performed by experts across the globe. Sensors and sensor systems are the objects used to detect changes in any given environment. They use electrical and optical signals to find the events and then give outputs based on them. The most basic types of sensors are humidity sensor, touch sensor, pressure sensor, gas sensor, gyro sensor, acceleration sensor, biosensor, chemical sensor, etc. This text explores all the important aspects of sensor systems in the present day scenario. Most of the topics introduced in it cover new techniques and the applications of the subject. 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. Scientists and students actively engaged in this field will find the book full of crucial and unexplored concepts.

Sensors

Marvin Heather

ISBN: 978-1-63240-618-7
$137.95 US
2017
Book Size: 7”x10”
224pp./Colored
Hardback



Sensors: Science and Engineering

Detecting events or changes in machines, equipment or environment is becoming highly critical. Such equipment needs reliable, robust and accurate sensors in order to avert risks that could endanger human lives, environment etc. This book discusses the theories and concepts of sensors. Most of the topics introduced herein cover new technologies and applications of sensors. 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 working of sensors and its application.

Civil Engineering

Armando Ruiz

ISBN: 978-1-63240-623-1
$132.95 US
2017
Book Size: 7.75”x10.5”
218pp./Colored
Hardback

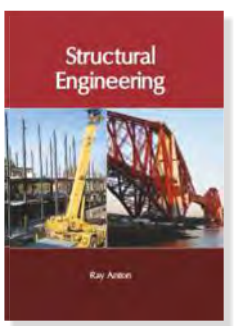
Civil, Structural and Constructional Engineering

The fundamentals as well as modern approaches in the field of civil engineering have been discussed in this book. Structural and constructional engineering are important sub-fields of civil engineering. Robust development in civil engineering has been possible in the last few decades due to availability of better materials, equipment, machines and software. Civil engineering is considered to be one among the world’s oldest professional engineering disciplines. Acclaimed experts of civil engineering have provided comprehensive insights in the book to assist the readers in gaining essential information. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in this field. With state-of-the-art inputs, this book targets students, researchers and professionals.

Civil Engineering

Ray Anton

ISBN: 978-1-63240-585-2
$119.95 US
2017
Book Size: 8.5”x11”
200pp./Colored
Hardback



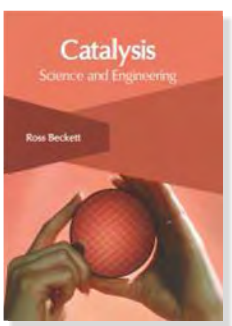
Structural Engineering

The ever growing need of advanced technology is the reason that has fueled the research in the field of advanced structural engineering in recent times. It is an important field of engineering concerned with the stability, strength and rigidity of buildings. This book covers in detail some existent theories and innovative concepts revolving around this discipline. The text aims to highlight some of the major specializations in this area by encompassing related fields like earthquake engineering, façade engineering, etc. The topics covered in this book offer the readers new insights in the field of advanced structural engineering. It includes contributions of experts and scientists which will provide innovative insights into this field. Students, researchers, experts and anyone else associated with the discipline of structural engineering will benefit alike from this book.

Chemical Engineering

Ross Beckett

ISBN: 978-1-63240-629-3
$119.95 US
2017
Book Size: 7”x10”
202pp./Colored
Hardback



Catalysis: Science and Engineering

The rate of increase caused to a chemical reaction through the addition of another substance is known as catalysis. This book discusses the principles of the process of catalysis. It is a significant process in many industries such as the petroleum industry, chemical manufacturing and the food processing industries. This book unravels the recent studies in this field. Chapters in this book delve into the scientific processes as well as industrial applications of catalysis. It includes contributions of experts and scientists which will provide innovative insights into this field. The readers would gain knowledge that would broaden their perspective about catalysis.

Aerospace Engineering

Ted Dunham

ISBN: 978-1-63240-533-3
$152.95 US
2016
Book Size: 8.5”x11”
267pp./Colored
Hardback

Aerospace Engineering: Design, Concepts and Applications

This book elucidates the concepts and innovative models around prospective developments with respect to aerospace engineering. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field. Aerospace engineering is a primary branch of engineering focusing on the study of development of varied types of spacecrafts and aircrafts. It can be further divided into aeronautical and astronautical engineering. This book provides a comprehensive overview of this field with an emphasis on design, concepts and 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. For all those who are interested in aerospace engineering, this book can prove to be an essential guide.

Mechanical Engineering

Bilroy Lockhart

ISBN: 978-1-63240-535-7
$152.95 US
2016
Book Size: 8.5”x11”
280pp./Colored
Hardback

Mechanical Engineering and its Applications

Mechanics is the scientific and technological study of motion. Mechanical engineering deals with the area of science that studies the changes which occur when a physical body is brought in contact with force and displacement. It applies the laws of physics to comprehend and analyze and create mechanical systems. This book contains some path-breaking studies related to mechanical engineering. It provides detailed information about important theories, its practical applications and other case studies related to this topic. Students, researchers, engineers and all associated with the field of mechanical engineering will benefit alike from this book. It is a complete source of knowledge on the present status of this important field.

Mechanical Engineering

Rene Sava

ISBN: 978-1-63240-538-8
$152.95 US
2016
Book Size: 8.5”x11”
273pp./Colored
Hardback

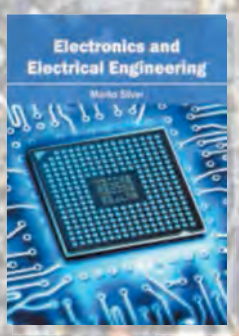
Mechanical Engineering: Research, Design and Techniques

Mechanics is field of physics that deals with inspecting the nature and changes a physical body incurs when it is put in contact with force or displacement. It applies the techniques of physics to manufacture, analyze and conceptualize mechanical systems. This book will discuss the fundamentals as well as modern discoveries in the field of mechanical engineering. It explores all the important aspects of mechanical engineering in the present day scenario. It includes contributions from experts as well as researchers to provide innovative insights into this field. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts. Therefore, it will prove to be immensely beneficial to researchers as well as students.

Electrical Engineering

Marko Silver

ISBN: 978-1-63240-539-5
$152.95 US
2016
Book Size: 8.5”x11”
264pp./Colored
Hardback



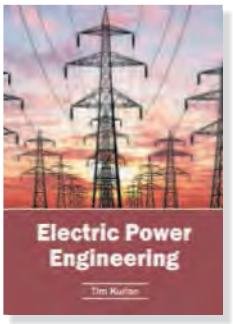
Electronics and Electrical Engineering

Electronics engineering is a discipline which deals with electrical devices of low intensity current such as mobiles, radio, television, etc. It is used to design and develop new and improved devices for daily usage. On the other hand electrical engineering is applied to devices that use high currents. Although these fields are different but mostly they are applied in combination in a variety of devices. This book traces the progress of these areas and highlights some of their key concepts and applications. The extensive content of this book provides the readers with a thorough understanding of the subjects. Students, researchers, experts and all associated with electronics and electrical engineering will benefit alike from this book.

Electric Power

Tim Kurian

ISBN: 978-1-63240-559-3
$137.95 US
2016
Book Size: 8.5”x11”
210pp./Colored
Hardback



Electric Power Engineering

Electric power is the product of current and voltage and it is generally produced by electric generators and electric batteries. Electric power engineering deals with the production, distribution, transmission, and utilization of electric power. This branch of engineering draws its base from electrical engineering. It includes electric motors, transformers, power grid and power electronics. This book elucidates the concepts and innovative models around prospective developments with respect to electric power engineering. Most of the topics introduced in this book cover new techniques and applications of this discipline. It presents researches performed by experts from across the globe to provide an in-depth understanding of the latest advances within this field. It is a resource guide for engineers, researchers and students.

Industrial Engineering

Jeff Hansen

ISBN: 978-1-63240-541-8
$152.95 US
2016
Book Size: 8.5”x11”
266pp./Colored
Hardback

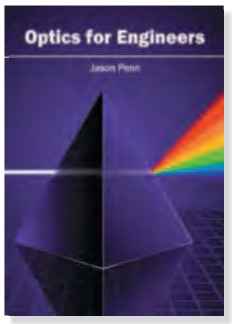
Manufacturing Engineering

Manufacturing engineering involves planning, designing, and packaging i.e. conversion of raw materials into a finished products. This field aids the manufacturing processes and related industries by reducing their processing time and increasing profits. Many technological advancements have been aided by applied research in this field and the most important ones being automation and robotics. This book presents the complex subject of manufacturing in the most comprehensible and easy to understand language. 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 includes contributions of international veterans which makes it a beneficial guide for engineers, manufacturers, professionals, academicians and students associated with this field.

Optics

Jason Penn

ISBN: 978-1-63240-564-7
$143.95 US
2016
Book Size: 8.5”x11”
237pp./Colored
Hardback



Optics for Engineers

Optics is the branch of physics that studies the properties of light and its interaction with matter. It also involves design and construction of instruments required for studying the various phenomena related to light. This discipline usually includes ultraviolet, visible and infrared radiation. Light is an electromagnetic wave and it exhibits the behavior of wave as well as particle. To understand this dual nature optics has been further divided into ray optics and wave optics. It includes daily use objects and new technologies to study the properties of light such as lenses, mirrors, microscopes, fibre optics and lasers. This book provides significant information of this discipline to help develop a good understanding of optics and related fields. It includes contributions of experts and scientists which will provide innovative insights to the readers. The aim of this text is to present researches that have transformed this discipline and aided its advancement. It is appropriate for students seeking detailed information in the field of optics as well as experts.

Sensors

Marvin Heather

ISBN: 978-1-63240-536-4
$154.95 US
2016
Book Size: 8.5”x11”
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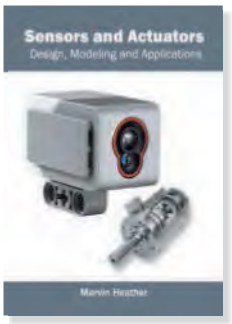


Sensors and Actuators: Design, Modeling and Applications

This book unravels the recent studies in the fields of sensors and actuators. A sensor is a device that generates a response for a physical input whereas actuators in general are motors that are used to control or move a system operated by a current, fluid or pressure. These objects are widely used in the manufacturing of machinery, airplanes, medicine, cars, and robotics. This book collaborates researches conducted by experts across the globe. The topics covered in this book will provide a detailed understanding of the design, modelling and applications of sensors and actuators. It will help the readers in keeping pace with the rapid changes in this field.

Geographic Information Systems

Marina De Lima

ISBN: 978-1-63240-532-6
$152.95 US
2016
Book Size: 8.5”x11”
266pp./Colored
Hardback

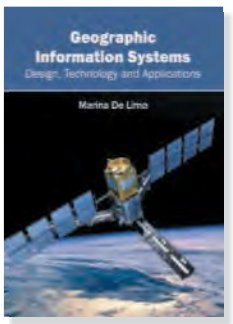
Geographic Information Science and Systems

Geographic information science is a field of research that redefines geographic information by studying data and using different computational techniques. It gathers, interprets and analyses data to provide important and meaningful information. Geographic information systems on the other hand are the software used by this discipline. This book consists of various important and pivotal topics such as spatial analysis, data mining, data structures and algorithms, etc. This book delves into the techniques and technology employed in this field along with its latest applications. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this discipline have been included in this book. It is a vital tool for all researching and studying geographic information science and systems.

Geographic Information Systems

Marina De Lima

ISBN: 978-1-63240-558-6
$132.95 US
2016
Book Size: 8.5”x11”
187pp./Colored
Hardback



Geographic Information Systems: Design, Technology and Applications

Geographic information systems are designed for the purpose of mapping any physical location on earth. They are designed to store, capture, analyze and present different forms of spatial data. It is applicable to various areas such as climatology, landscape architecture, natural resources, crime mapping, real estate, archaeology, public health and many others. The ever growing need for advanced technology is the reason that has fueled the research in this field in recent times. The objective of this book is to give a general view of the different areas of geographic information system and its applications. 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.

Biofuels

Robbie Larkin

ISBN: 978-1-63240-529-6
$143.95 US
2016
Book Size: 8.5”x11”
227pp./Colored
Hardback

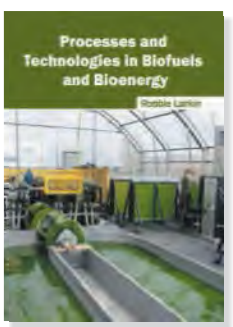
Bioenergy and Biofuels: Advances and Applications

This book primarily deals with bioenergy and biofuels. It also discusses the applications and advancements in these fields. Bioenergy is a form of renewable energy which is produced by the combustion of biofuels. Ethanol, syngas, biogas, charcoal, wood, etc. are some examples of biofuels. These are the potential alternatives of fossil fuels. Scientists and researchers across the globe are constantly pushing the boundaries in this field to make biofuels as useful and productive as possible for commercial use. This book is meant for students who are looking for an elaborate reference text on the evolution of bioenergy. The readers would gain knowledge that would broaden their perspective about these renewable resources.

Biofuels

Robbie Larkin

ISBN: 978-1-63240-546-3
$154.95 US
2016
Book Size: 8.5”x11”
304pp./Colored
Hardback



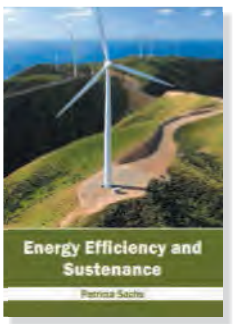
Processes and Technologies in Biofuels and Bioenergy

This book aims to understand the processes and technologies involved in the fields of bioenergy and biofuels. It contains important chapters that discuss the most vital concepts and emerging trends in this area of study. Biofuels and bioenergy became the focal point for researchers while they were searching for alternative sources of energy other than the existing non-renewable sources. As the already existing resources are limited, biofuels can be termed as one of the substitutes. They are available in forms such as biodiesel and bioethanol. Considerable amount of research is going on this area to produce cleaner fuels with high efficiency for example ethanol biofuels, algae biofuels, jatropha tree oil, etc. The various sub-fields of bioenergy along with technological progress that have future implications are glanced at in this book. Scientists, engineers, environmentalists, climatologists, researchers and students actively engaged in this field will find this book full of crucial and unexplored concepts.

Energy

Patricia Sachs

ISBN: 978-1-63240-560-9
$137.95 US
2016
Book Size: 8.5”x11”
209pp./Colored
Hardback



Energy Efficiency and Sustenance

The concept of energy efficiency revolves around reducing energy consumption without compromising with the actual facilities used. Generally, the conventional products are replaced with more sophisticated ones such as a normal filament bulb replaced with energy efficient LED light. The techniques employed under this discipline may result in energy savings as well as financial cost savings. Sustenance is maintaining these practices in the long run. The topics covered in this extensive book deal with the core subjects related to energy efficiency and sustenance. 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, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this area at various levels. It is also a beneficial read for engineers, environmentalists, ecologists and conservationists.

Waste Management

Victor Bonn

ISBN: 978-1-63240-540-1
$152.95 US
2016
Book Size: 8.5”x11”
261pp./Colored
Hardback

Waste Management

With the onset of industrialization era and urbanization of the countries, human kind became one of the biggest polluter, contributing towards the generation of large heaps of waste and unsanitary conditions. To keep this planet clean and habitable waste management is the need of the hour. It is the sum of all the activities involved in collection, transport, treatment and recycling waste material. This is a complex procedure as there are different categories of waste such as solid, liquid, biodegradable and non-biodegradable. Each of these requires different methodologies for disposal. Most of the topics introduced in this book cover new techniques and applications related to management of waste. The various studies that are constantly contributing towards advancing technologies and evolution of this field are examined in detail. The readers would gain knowledge that would broaden their perspective about this field. This book includes contributions of international experts and scientists which will provide innovative insights into this field.

Civil Engineering

Seth Royal

ISBN: 978-1-63240-528-9
$137.95 US
2016
Book Size: 8.5”x11”
217pp./Colored
Hardback

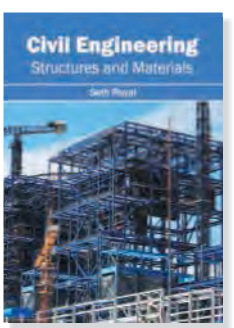
Civil and Architectural Engineering

This book discusses the fundamental as well as modern approaches of civil and architectural engineering. It unfolds the innovative aspects of this field. Civil engineering is a field of engineering that deals with the construction of buildings, roads, hospitals, parks, bridges, dams and in-turn establishing and developing a new society. Architecture and civil engineering go hand in hand as both deal with planning and constructing buildings and other infrastructures. This book elucidates the concepts and innovative models around the prospective developments with respect to this field. 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 is appropriate for students seeking detailed information in this area as well as for experts, civil engineers and architects.

Civil Engineering

Seth Royal

ISBN: 978-1-63240-527-2
$137.95 US
2016
Book Size: 8.5”x11”
212pp./Colored
Hardback



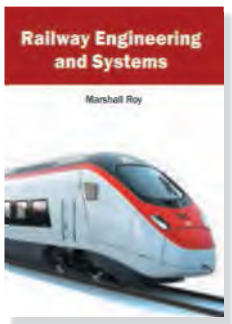
Civil Engineering: Structures and Materials

Civil engineering is a discipline that dates back to the beginning of civilization. It is a diverse field that takes into consideration structural engineering, earthquake engineering, transportation engineering, architectural engineering, environmental engineering, municipal or urban engineering, water resources engineering, etc. It deals with the construction and maintenance of roads, bridges, dams, canals, power plants and residential buildings. This book traces the progress of this field and highlights some of its key concepts and applications. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this area of study have been included in it. The aim of this book is to present researches that have transformed this discipline and aided its advancement. Students, researchers, experts and all associated with civil engineering will benefit alike from this book.

Railway Engineering

Marshall Roy

ISBN: 978-1-63240-531-9
$143.95 US
2016
Book Size: 8.5”x11”
234pp./Colored
Hardback



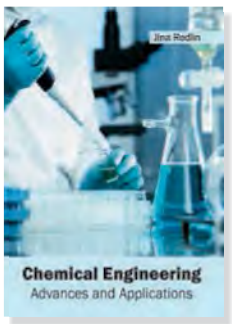
Railway Engineering and Systems

Railway engineering refers to a dynamic domain of engineering which deals with the design, manufacturing and operation of all kinds of railway networks. It encompasses the elements of civil, mechanical, electrical, production and computer engineering; among many others. This book will unfold the innovative aspects of railway engineering. It has detailed explanations of the various concepts and applications of this field. It is compiled in such a manner, that it will provide in-depth knowledge about this subject. Students, researchers, experts and all associated with this field will benefit alike from this book. It will prove to be a beneficial source of knowledge for readers.

Chemical Engineering

Jina Redlin

ISBN: 978-1-63240-545-6
$152.95 US
2016
Book Size: 8.5”x11”
268pp./Colored
Hardback



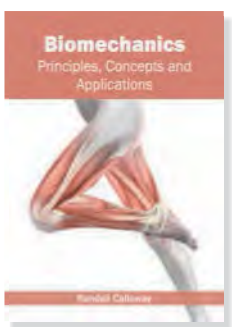
Chemical Engineering: Advances and Applications

Chemical engineering is a swiftly progressing field of science. From creating important chemicals for medications to designing large and complex processes for refining of petroleum products, this discipline encompasses all. It combines chemistry, physics, microbiology, biochemistry with applied mathematics to transform basic chemicals and materials into commercially viable products. It held its significance since the industrialization era and the demand for new techniques and advancements is comparatively high in the present times. Different approaches, evaluations, methodologies and advanced studies on chemical engineering have been included in this book. Most of the topics introduced in this book cover new techniques and applications this area. A number of latest researches have been included to keep the readers up-to-date. Students, researchers, experts and anyone else associated with chemical engineering will benefit alike from this book.

Biomechanics

Randall Calloway

ISBN: 978-1-63240-553-1
$148.95 US
2016
Book Size: 8.5”x11”
254pp./Colored
Hardback



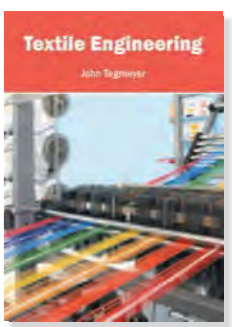
Biomechanics: Principles, Concepts and Applications

Biomechanics uses the concepts and applications of mechanics to examine the functions and structure of biological beings like humans, animals, plants, fungi, etc. It has many sub-fields like plant biomechanics, sports biomechanics, biotribology, computational boimechanics, continuum biomechanics, etc. This book will trace the progresses made in the field of biomechanics and explain in detail the various theories, methods and applications related to it. It will provide in-depth knowledge about the new advances made in this area. Those with an interest and an eye for detail will find this book very useful. Coherent flow of topics, reader-friendly language and extensive use of examples makes it a valuable source of information for students and researchers alike.

Textiles

John Tegmeyer

ISBN: 978-1-63240-544-9
$152.95 US
2016
Book Size: 8.5”x11”
266pp./Colored
Hardback



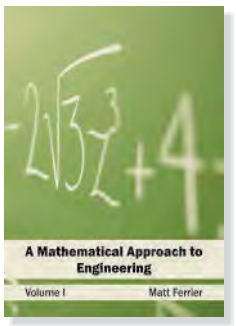
Textile Engineering

Discovery and existence of a large number of artificial and natural fibers led to the birth of a discipline known as textile engineering. Textile is commonly referred to as a cloth which is formed using a yarn. Different cultures across the world are responsible for the formation of a diverse variety of fibers and their varied usage. Demand for new and improved fabrics like wrinkle free and heat resistant, has revolutionized this field. This book brings forth some of the most innovative concepts and elucidates some unexplored aspects of this area. It is a vital tool for all researching or studying textile engineering as it gives incredible insights into emerging trends and concepts.

Engineering & Technology

Matt Ferrier

ISBN: 978-1-63240-005-5
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback



A Mathematical Approach to Engineering: Volume I

Mathematical problems in engineering is an interdisciplinary field of study which unites the principles of advanced mathematics and engineering for creating something new or solving some issues. This book attempts to explain and understand the researches and problems in this field. The various advancements in the study of mathematical problems in engineering are discussed and their applications are looked at in detail. The various disciplines that are concerned with engineering mathematics are also glanced at. Researchers and students in this discipline will find this book helpful.

Engineering & Technology

Matt Ferrier

ISBN: 978-1-63240-006-2
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback

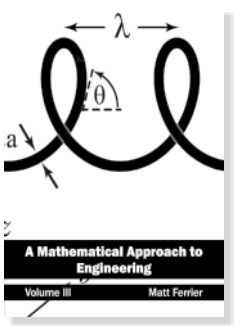
A Mathematical Approach to Engineering: Volume II

Mathematical problems in engineering is an interdisciplinary field of study which unites the principles of advanced mathematics and engineering for creating something new or solving some issues. This book attempts to explain and understand the researches and problems in this field. The various advancements in the study of mathematical problems in engineering are discussed and their applications are looked at in detail. The various disciplines that are concerned with engineering mathematics are also glanced at. Researchers and students in this discipline will find this book helpful.

Engineering & Technology

Matt Ferrier

ISBN: 978-1-63240-007-9
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback



A Mathematical Approach to Engineering: Volume III

Mathematical problems in engineering is an interdisciplinary field of study which unites the principles of advanced mathematics and engineering for creating something new or solving some issues. This book attempts to explain and understand the researches and problems in this field. The various advancements in the study of mathematical problems in engineering are discussed and their applications are looked at in detail. The various disciplines that are concerned with engineering mathematics are also glanced at. Researchers and students in this discipline will find this book helpful.

Engineering & Technology

Howard Zea

ISBN: 978-1-63240-013-0
$94.95 US
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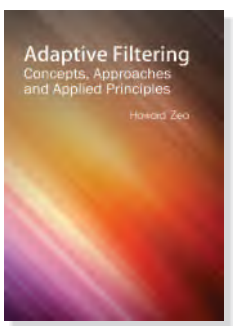
162pp./Colored
Hardback



Adaptive Filtering: Concepts, Approaches and Applied Principles

This book is a collaboration of researches by renowned experts in the field of adaptive filtering. This system is used to characterize unfamiliar systems in time-variant surroundings. The main purpose of this method is to combine highest convergence speed with maximum accuracy. Every function requires a definite approach which determines the filter composition, the cost function to reduce the judgment error, the adaptive algorithm, and other parameters; and each selection involves certain cost in computational terms, that in any case should consume less time than the time necessary by the application functioning in real-time. This book is a compilation of various aspects related to adaptive filtering and it intends to help researchers in a productive manner.

Engineering & Technology

Kent Olsen

ISBN: 978-1-63240-017-8
$119.95 US
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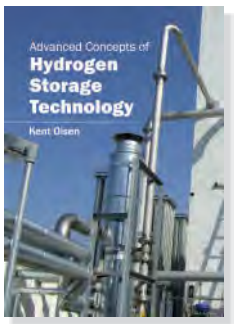
278pp./Colored
Hardback



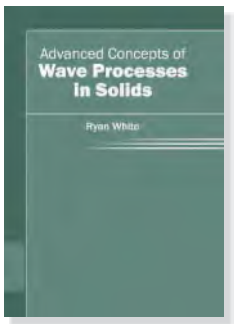
Advanced Concepts of Hydrogen Storage Technology

This book deals with advanced information regarding the technology of hydrogen storage. Throughout the globe, a better and safer alternative for petroleum is in much demand because of growing climatic problems like global warming and also perennial energy shortfall. Hydrogen has come up as a very capable, cost productive, inexhaustible, and clean energy substitute. Nevertheless, the storage of hydrogen remains a serious concern, mainly for the use in automobiles which run on proton-exchange membranes (PEMs) used fuel cells. Consequentially, scientific organizations, by using nanotechnology, have started discovering new hydrogen preservation materials. This book talks about the varied nano-structured assets used for utilization in hydrogen storage, including chemical and physical aspects. The matters discussed in the book are analytic designs, fusion, transforming, constructions, qualities and use of nanomaterials in hydrogen storage systems.

Engineering & Technology

Ryan White

ISBN: 978-1-63240-018-5
$109.95 US
2015
Book Size: 6”x9”
234pp./Colored
Hardback



Advanced Concepts of Wave Processes in Solids

An elucidative account on the advanced concepts of wave process in solids has been provided in this profound book. Wave propagation in solids has been extensively analyzed and major developments in this field have been accomplished not only for the enhancement of calculus methodologies, but also for the significant progresses achieved in the elucidation of novel types of materials. This book provides the readers with innovative and existing research studies elucidating developments in both the domains. It provides information regarding propagation of waves in complex materials and in-depth investigations on associated dispersion relations. It also highlights novel applications regarding the analysis of wave processes in conventional solids and lays emphasis on different simulation availabilities in the areas of geomaterials, seismology, damaging, and multi-wave propagation. The book will serve as a valuable resource for engineers, students and veteran scientists who are well-versed about various aspects of wave propagation in solids.

Engineering & Technology

Taylor Stein

ISBN: 978-1-63240-020-8
$109.95 US
2015
Book Size: 6”x9”
225pp./Colored
Hardback

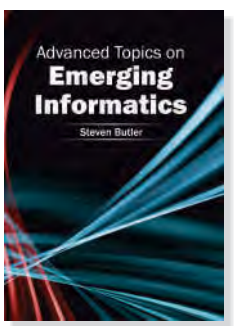
Advanced Desalination Technologies

Advanced desalination technologies are illustrated in this book with the help of comprehensive information. The term “desalination”, in its widest sense, means the removal of dissolved, suspended, visible and invisible impurities from seawater, brackish water and wastewater. The aim of desalination is to make water drinkable or pure enough for industrial applications such as in the processes for the generation of steam, power, pharmaceuticals and microelectronics, or simply for attaining acceptable qualities for discharge back into the environment. This book focuses on Membranes and Systems, Solar Desalination, Reverse Osmosis Process Chemistry and Control, Drinking Water Quality, and Selective Waste Product Removal, presenting a landscape to students, teachers and practitioners. The technologies of desalination of water are developing as quickly as the cry of humankind for more accessibility of quality water supply along with reducing environmental pollution. Contributions to the knowledge-base of desalination are expected to keep growing rapidly in the forthcoming years.

Engineering & Technology

Steven Butler

ISBN: 978-1-63240-032-1
$119.95 US
2015
Book Size: 6”x9”
286pp./Colored
Hardback



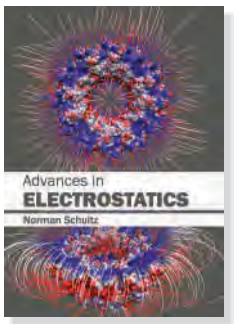
Advanced Topics on Emerging Informatics

Informatics has interdisciplinary approaches. This book on emerging informatics brings together the latest concepts and applications that will help describe and outline problem solving methods and features in creating business and human systems. It covers global aspects of information systems design in which many applicable technologies are introduced for the interest of human and business systems. This can be viewed as a developing area of informatics that helps better conceptualize and design new solutions. This book specifies information contexts in rising fields and intends to help experts and students interested in this subject.

Engineering & Technology

Norman Schultz

ISBN: 978-1-63240-050-5
$94.95 US
2015
Book Size: 6”x9”
161pp./Colored
Hardback



Advances in Electrostatics

The science of electrostatics has been elucidated in this book. It is a compilation of advanced researches on electrostatic principles. It discusses electrostatic phenomena as a significant aspect. The book includes several topics, such as biotechnology and engineering, measurement, actuation of MEMs etc. Readers who hold interest in this topic will gain from the book in their researches.

Engineering & Technology

Kate Brown

ISBN: 978-1-63240-053-6
$109.95 US
2015
Book Size: 6”x9”
216pp./Colored
Hardback

Advances in Photodetectors

This book describes recent developments in enhancement of photodetectors and photodetection systems for particular applications. It includes elucidations of nine distinct types of photodetectors and their characteristics. The aim of this book is to serve as a valuable source of reference for researchers, students, and engineers engaged in the field of photonics and advanced technologies.

Engineering & Technology

Vladimir Latinovic

ISBN: 978-1-63240-066-6
$109.95 US
2015
Book Size: 6”x9”
242pp./Colored
Hardback

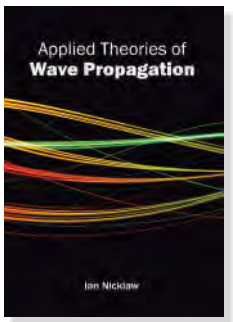
Applications of Optical Equipment

Optical devices have revolutionized the modern era. These devices have made our lives much easier for communication and computation. In a certain way, it has converted the whole world into a global village. Novel nanoscale structures have shown a broad range of exclusive features and, therefore, have become very popular. New structural materials are not just used in biomedical therapy, but their nature also inspires the design of innovative optical structures. With this book, we focus on current advancements of theoretical study, designs of novel nano-photonic structures and functional materials for optical instrumentation. The chapters within this book have been contributed by renowned researchers from all over the world who work in the forefront of this field. This book is a compilation of several well researched chapters dealing with optical devices.

Engineering & Technology

Ian Nicklaw

ISBN: 978-1-63240-069-7
$149.95 US
2015
Book Size: 6”x9”
392pp./Colored
Hardback



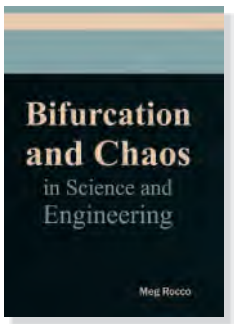
Applied Theories of Wave Propagation

This book discusses the applied theories of wave propagation in a comprehensive manner. A wave is one of the most fundamental physics phenomena discovered by humans since ancient times. The wave is also one of the most-studied phenomena in physics which can be well elucidated by mathematics. Such studies can be the best explanation of the “science” of wave propagation, summarizing the laws of nature by employing human defined symbols, languages and operators. An in-depth understanding of waves and wave propagation can assist us in enhancement of the quality of life and guide us into a direction for future explorations of the universe and nature. The book elucidates appealing theories and applications for readers interested in studying about waves and wave propagations. It also acts as a reference for experts working in the fields described in this book.

Engineering & Technology

Meg Rocco

ISBN: 978-1-63240-076-5
$149.95 US
2015
Book Size: 6”x9”
356pp./Colored
Hardback



Bifurcation and Chaos in Science and Engineering

The bifurcation and chaos in science and engineering has been elaborately discussed in this up-to-date book. The aim of this book is to introduce both theoretical and application oriented approaches in science and engineering. It is intended to assist scientists, engineers, teachers, researchers, as well as graduate and post-graduate students either engaged or interested in this field.

Engineering & Technology

Justin Riggs

ISBN: 978-1-63240-137-3
$79.95 US
2015
Book Size: 6”x9”
129pp./Colored
Hardback

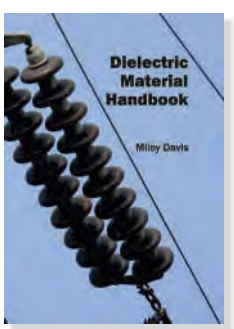
Design of Experiments and their Implementations

This book compiles authentic researches on advancements made within the field of design of experiments. It is a collection of analyzed scholarly contributions by various authors from across the globe. Each contribution is comprehensively presented in this book. The book is intended for scholars as well as specialists in the field.

Engineering & Technology

Miley Davis

ISBN: 978-1-63240-143-4
$144.95 US
2015
Book Size: 6”x9”
314pp./Colored
Hardback



Dielectric Material Handbook

The aim of this book is to provide valuable information regarding dielectric material to the readers. The book is a compilation of theories and researches on dielectric materials for diverse industrial functions. Fragmented information on dielectric theory and characteristics of materials, structure of equipment and novel applications related to the manufacturing industry has been collated and updated in a single reference book. In this book, pertinent and helpful information has been presented in the quoted literature.

Engineering & Technology

Matt Ferrier

ISBN: 978-1-63240-211-0
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2015
Book Size: 8.5”x11”
182pp./Colored
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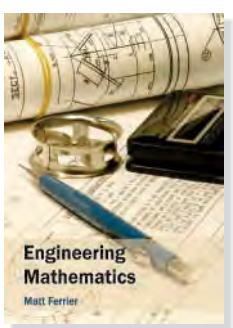


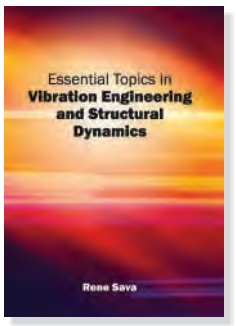
Engineering Mathematics

Engineering mathematics is an upcoming field of study. This book is a combination of chapters written with expertise and enthusiasm to provide readers with the knowledge they seek in the field of engineering mathematics. It discusses applied mathematical concepts and theories, and the output they bring in the form of applications and philosophies. Various models and analytical engineering concepts have also been briefed in this book. It will serve as a handbook in the field of engineering mathematics.

Engineering & Technology

Rene Sava

ISBN: 978-1-63240-227-1
$149.95 US
2015
Book Size: 6”x9”
374pp./Colored
Hardback



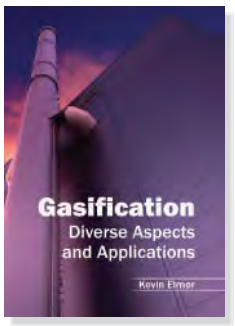
Essential Topics in Vibration Engineering and Structural Dynamics

All the essential topics in vibration engineering and structural dynamics are explained in this book. Significant features of vibration engineering and structural dynamics have been presented, in addition to their impact on study and application in engineering. This book focuses on various issues which pertain to modelling, rotor dynamics, vibration control, assessment and recognition, modal analysis, dynamic arrangements, finite element study, numerical techniques and other practical engineering functions and academic improvements in this vast discipline. The book is meant for those indulged in research, academics, professional practice and teaching who are keen on understanding the current challenges and problems, looking for innovative solutions in vibration engineering and structural dynamics.

Engineering & Technology

Kevin Elmer

ISBN: 978-1-63240-247-9
$144.95 US
2015
Book Size: 6”x9”
350pp./Colored
Hardback



Gasification: Diverse Aspects and Applications

The diverse aspects as well as applications of gasification are explained in this elucidative book. Many books have been written on gasification but the applications and usage of these theories has not been given much regard. Therefore, this book illustrates the functioning of gasification in the practical situations. Gasification is a process of changing coal, biomass and wastes into high-quality products. Since renewable energy is not omnipresent till date and it will take at least two more decades to provide more affordable energy to a majority of population, gasification can act as a mediating process during this span by giving us clean liquid fuels, gas, and chemicals from low grade products. Even though gasification can be our future, it still requires many developments and recognition on the technical front, because it is still confined to a limited market and has not made any impact in the global market of electricity generation, chemicals, and liquid fuels that are generated from comparatively inexpensive biomaterials. This book provides valuable insight to the readers about current situation and motivates them to research and develop new techniques in the domain of gasification.

Engineering & Technology

Marques Vang

ISBN: 978-1-63240-264-6
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Book Size: 8.5”x11”
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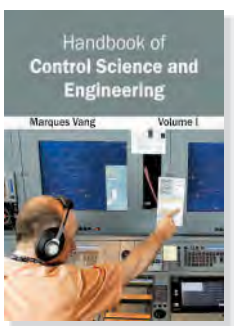


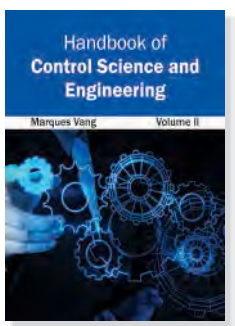
Handbook of Control Science and Engineering: Volume I

Control science and engineering has emerged as an established field of study in recent times. This book contains the topics discussing the aspects of control engineering, such as; monitoring, support systems, design specifications, improved metering, and reliable control mechanisms. The ever growing need of advanced technology is the reason that has fueled the research in the field of control systems in recent times. This book will serve as a resource guide for experts and students alike. It aims to lay the ground work for future researches and advancements in this field.

Engineering & Technology

Marques Vang

ISBN: 978-1-63240-265-3
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback



Handbook of Control Science and Engineering: Volume II

Control science and engineering has emerged as an established field of study in recent times. This book contains the topics discussing the aspects of control engineering, such as; monitoring, support systems, design specifications, improved metering, and reliable control mechanisms. The ever growing need of advanced technology is the reason that has fueled the research in the field of control systems in recent times. This book will serve as a resource guide for experts and students alike. It aims to lay the ground work for future researches and advancements in this field.

Engineering & Technology

Jeff Hansen

ISBN: 978-1-63240-277-6
$109.95 US
2015
Book Size: 6”x9”
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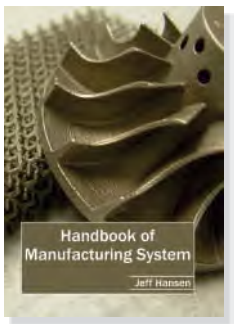
Hardback



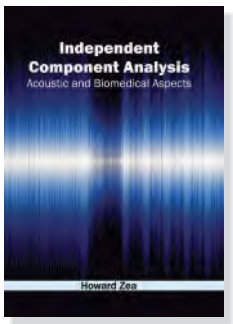
Handbook of Manufacturing System

The aim of this book is to provide updated information regarding manufacturing systems and discuss the current advances, devices, methods and novel ideas in manufacturing systems. Manufacturing system consists of equipment, products, people, knowledge, control and support functions so as to create a framework which caters to market needs and demands in today’s competitive world. It collects various researches conducted in fundamental and applied industrial fields. The book will be useful to those involved in manufacturing engineering, systems and management and in manufacturing research.

Engineering & Technology

Howard Zea

ISBN: 978-1-63240-303-2
$149.95 US
2015
Book Size: 6”x9”
358pp./Colored
Hardback



Independent Component Analysis: Acoustic and Biomedical Aspects

The acoustic and biomedical aspects of independent component analysis are elucidated in this insightful book. The signal-processing method used for drawing out individual sources from a provided analyzed data that is a blend of various unknown sources is called Independent Component Analysis (ICA). Blind Source Separation (BSS), a relatively new method, has gained significant importance in the past few years because of its capable signal-processing functions like speech enhancement systems, image processing, telecommunications, medical signal processing and several data mining issues. This book presents knowledge on the structure of some of the pivotal advanced discoveries of ICA, connected to Audio and Biomedical signal processing uses.

Engineering & Technology

Michelle Vine

ISBN: 978-1-63240-316-2
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback

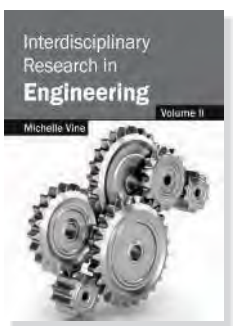
Interdisciplinary Research in Engineering: Volume I

This book attempts to understand the multiple branches that fall under engineering. It presents the current research in this field and how such research has ramifications in our lives. The various concepts and discoveries that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail. Researchers and students in this field in search of information to further their knowledge will be greatly assisted by this book.

Engineering & Technology

Michelle Vine

ISBN: 978-1-63240-317-9
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback



Interdisciplinary Research in Engineering: Volume II

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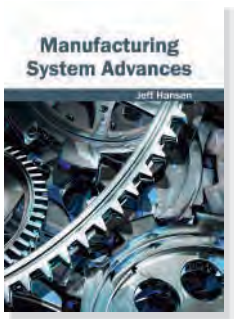
Engineering & Technology

Jeff Hansen

ISBN: 978-1-63240-334-6
$119.95 US
2015
Book Size: 6”x9”
232pp./Colored
Hardback



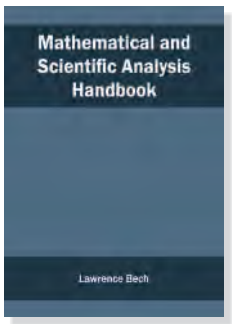
Manufacturing System Advances

This book discusses current advances, devices, methods and novel ideas in manufacturing systems. It consists of equipment, products, people, knowledge, control and support functions so as to create a framework which caters to market needs and demands in today’s competitive world. It collects various researches conducted in fundamental and applied industrial fields. The book covers the latest developments, techniques and systems such as approach based on response surfaces method and ant colony system, wafer fabrication, fundamentals of global outsourcing for manufacturers, and hybrid manufacturing system design and development. The book will be useful to those involved in manufacturing engineering, systems and management and in manufacturing research.

Engineering & Technology

Lawrence Bech

ISBN: 978-1-63240-336-0
$149.95 US
2015
Book Size: 8.5”x11”
218pp./Colored
Hardback



Mathematical and Scientific Analysis Handbook

In simple terms, analysis refers to the breaking down of complex data, materials, compounds, topics or any other substance to derive a simpler form. From chemistry to business, espionage and computer science, analysis has applications in almost all walks of life. Though as a concept, analysis is relatively new. Constant research is happening across the globe which has broadened the horizon of study of this discipline. This book takes a look at various aspects of analysis and the related advancements happening in diverse fields. It is a compilation of materials sent forth by experts in different subjects and domains.

Engineering & Technology

Miles Eron

ISBN: 978-1-63240-346-9
$159.95 US
2015
Book Size: 6”x9”
414pp./Colored
Hardback

Measurement Essentials

With a qualitative introduction to the field of measurements, this book presents the wide ranging implications of this subject. Measurement is an interdisciplinary investigational science. Measurement systems synergistically combine science, engineering and arithmetic methods to offer primary data for study, design and expansion, control of processes and operations, and make possible safe and economic performance of systems. In the past few years, measuring techniques have grown rapidly and have gained a certain position through extensive research and hard work. This book consists of a compilation of researches and theories based on measurements.

Engineering & Technology

Miles Eron

ISBN: 978-1-63240-347-6
$159.95 US
2015
Book Size: 6”x9”
402pp./Colored
Hardback

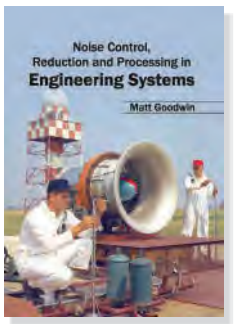
Measurement Systems: Applications and Design

This book provides an introduction to measurement systems, their designs and various applications. Measurement is an interdisciplinary experimental science. Measurement systems synergistically merge science, manufacturing and arithmetical methods to give basic data for study, design and improvement, management of processes and operations, and make possible safe and economic performance of systems. In the past few years, measuring methods have extended and developed through wide research activities and hardware enhancements.

Engineering & Technology

Matt Goodwin

ISBN: 978-1-63240-386-5
$144.95 US
2015
Book Size: 6”x9”
310pp./Colored
Hardback



Noise Control, Reduction and Processing in Engineering Systems

Noise control, reduction as well as processing in engineering systems have been elucidated in this all-inclusive up-to-date book. Noise has various adverse effects on comfort, performance, and human health. Hence, noise control plays an increasingly central role in the advancement of modern industrial and engineering operations. Issues regarding noise control have attracted the attention of various scientists in a variety of fields. Noise control has a vast variety of applications in manufacturing and industrial activities. The objective of this book is to provide an extensive overview of current developments in noise control and its applications in several research areas. The book discusses a variety of practical applications of various noise control strategies in diverse engineering situations. This book will be beneficial for researchers and engineers studying this field.

Engineering & Technology

Ian Ferrer

ISBN: 978-1-63240-411-4
$79.95 US
2015
Book Size: 6”x9”
139pp./Colored
Hardback

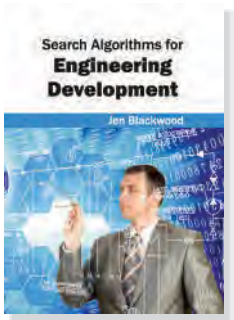
Piezoelectric Transducers

This book provides an illustrative elucidation on the functioning and applications of piezoelectric transducers. A piezoelectric transducer transforms electric signals into mechanical vibrations or vice versa by using the morphological alteration of a crystal which occurs on voltage application, or conversely by monitoring the voltage produced by a pressure applied on a crystal. This book describes state of the art research and advanced outcomes in this wide domain using original and innovative research studies presenting several investigation directions. This book is an outcome of contributions of experts from international scientific community working in various aspects of piezoelectric transducers and has been directed towards researchers, professional engineers, students and other experts in various academic and industrial disciplines, seeking to attain an improved understanding of current advances in the field and challenges which lie in this area.

Engineering & Technology

Jen Blackwood

ISBN: 978-1-63240-459-6
$119.95 US
2015
Book Size: 6”x9”
294pp./Colored
Hardback



Search Algorithms for Engineering Development

This elaborative book discusses the concept of search algorithms for engineering development. Heuristic search is a significant subdiscipline of optimization theory and is applicable in a wide variety of areas, inclusive of engineering and life science. Search procedures have been useful in solving severe engineering-oriented difficulties that either could not be solved any other way or are time consuming. This book delves into several applications for search procedures and techniques in various areas of electrical engineering. This book organizes relevant results and applications and thus, serves as a significant resource for students, researchers and practitioners to further profit from the potential of search procedures in solving tough optimization difficulties that arise in advanced engineering technologies. Applications of search methods in areas such as image and video processing matters, detection and resource allocation in telecommunication systems, security and harmonic reduction in power generation systems are covered. The book also discusses redundancy optimization difficulty and search-fuzzy learning methods in industrial applications.

Engineering & Technology

Reece Hughes

ISBN: 978-1-63240-475-6
$149.95 US
2015
Book Size: 8.5”x11”
202pp./Colored
Hardback

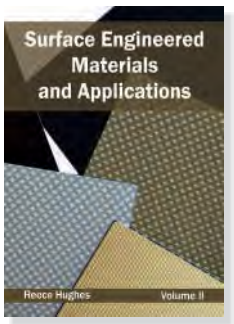
Surface Engineered Materials and Applications: Volume I

Surface engineering is an upcoming field of study. It has progressed by leaps and bounds over the last decade. For all readers who’re interested in surface engineering, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area.

Engineering & Technology

Reece Hughes

ISBN: 978-1-63240-476-3
$149.95 US
2015
Book Size: 8.5”x11”
210pp./Colored
Hardback



Surface Engineered Materials and Applications: Volume II

Surface engineering is an upcoming field of study. It has progressed by leaps and bounds over the last decade. For all readers who’re interested in surface engineering, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area.

Engineering & Technology

Reece Hughes

ISBN: 978-1-63240-477-0
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Book Size: 8.5”x11”
208pp./Colored
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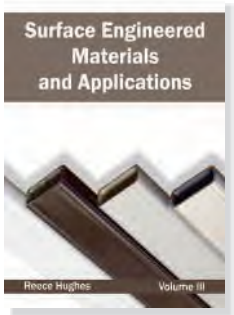

Surface Engineered Materials and Applications: Volume III

Surface engineering is an upcoming field of study. It has progressed by leaps and bounds over the last decade. For all readers who’re interested in surface engineering, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area.

Engineering & Technology

Reece Hughes

ISBN: 978-1-63240-478-7
$149.95 US
2015
Book Size: 8.5”x11”
201pp./Colored
Hardback

Surface Engineered Materials and Applications: Volume IV

Surface engineering is an upcoming field of study. It has progressed by leaps and bounds over the last decade. For all readers who’re interested in surface engineering, the case studies included in this book will serve as excellent guides to develop a comprehensive understanding. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area.

Engineering & Technology

Rene Sava

ISBN: 978-1-63240-515-9
$119.95 US
2015
Book Size: 6”x9”
290pp./Colored
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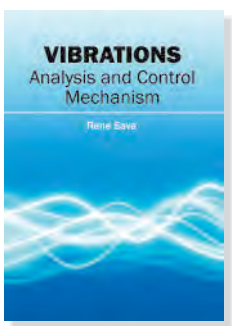


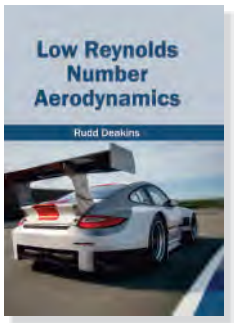
Vibrations: Analysis and Control Mechanism

The analysis and control mechanism of vibrations are elucidated in this extensive book. Vibration is a phenomenon that we can notice in various systems since its impact can vary vastly from the personal discomfort generated from the unevenness of a road to the downfall of a building or a bridge at the time of earthquake. This book is an abridgement of research works on vibration examination and control. It reflects on new techniques that help us understand and mitigate this phenomenon. This book deals with novel developments on vibration analysis and comprises of a series of case studies that illustrate new approaches on vibration control. The applications differ and include areas like vehicle suspension systems, wind turbines and civil engineering structures.

Aerodynamics

Rudd Deakins

ISBN: 978-1-63240-331-5
$94.95 US
2015
Book Size: 6”x9”
173pp./Colored
Hardback



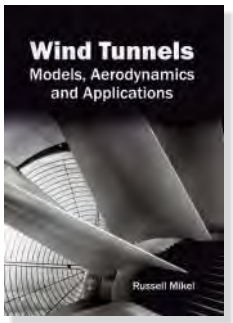
Low Reynolds Number Aerodynamics

This book elucidates information regarding the low Reynolds number aerodynamics. It discusses the recent advancements and trends in the low Re number aerodynamics, transition from laminar to turbulence, unsteady low Reynolds number flows, experimental studies, numerical transition modelling, control of low Re number flows, and MAV wing aerodynamics. It includes contributions by fluid mechanics and aerodynamics scientists and engineers proficient in their respective fields. The studies included in the book demonstrate significant new methods for the realization of the functions of MAV and wind turbine blades.

Aerodynamics

Russell Mikel

ISBN: 978-1-63240-523-4
$109.95 US
2015
Book Size: 6”x9”
226pp./Colored
Hardback



Wind Tunnels: Models, Aerodynamics and Applications

The models, aerodynamics and applications of wind tunnels are discussed in this profound book. It will be a valuable tool for students and professionals. It provides an insight into various designs of wind tunnelling and their tremendous research potential. It compiles researches conducted by experts on subsonic and supersonic wind tunnel designs, applicable for a broad range of disciplines. The book discusses various aspects of stationary and portable subsonic wind tunnel designs. It also elucidates topics related to supersonic wind tunnel and discusses a method to address fluctuating effects of fan blade rotation. This book also covers an analysis of wind tunnel applications across a multitude of engineering fields including civil, mechanical, chemical and environmental engineering.

Aerospace Engineering

Ted Dunham

ISBN: 978-1-63240-057-4
$149.95 US
2015
Book Size: 8.5”x11”
175pp./Colored
Hardback

Aerospace Engineering

This book delves into the advanced concepts of Aerospace Engineering, especially the design and construction as well as the study of the science and technology behind the physical properties of all flying crafts related to this field. Various aerodynamic characters and behavioral points like surfaces, airfoil and drag, among other properties are also discussed. This book will serve as a resource guide for students and experts alike.

Aerospace Engineering

Ted Dunham

ISBN: 978-1-63240-058-1
$149.95 US
2015
Book Size: 8.5”x11”
214pp./Colored
Hardback

Aerospace Engineering Handbook

In this book on aerospace engineering, each chapter includes an extensive review of literature as well as current techniques and concepts. This book has been compiled by an outstanding group of aerospace engineering specialists from all over the world, who've brought together the best of their knowledge and experience in this book. It explores different approaches, conceptual aspects and technical advancement in the field of aerospace engineering. This book aims to assist researchers, scientists, and engineers. Thus, a few advanced topics have also been included.

Aerospace Engineering

Margaret Ziegler

ISBN: 978-1-63240-073-4
$109.95 US
2015
Book Size: 6”x9”
215pp./Colored
Hardback

Automatic Flight Control Systems

The history of flight control cannot be considered separately to the history of aviation. Since the early days, the conception of automatic flight control systems has advanced from mechanical control systems to greatly developed automatic fly-by-wire flight control systems which can be found in military jets and civil airliners these days. Even today, several research attempts are made for the further advancement of these flight control systems in numerous aspects. Current advancements in this area target a variety of different aspects. This book presents a collection of knowledge on important research areas, like inertial navigation, handling of unmanned airplanes and helicopters, trajectory control of an unmanned space re-entry automobile, aeroservoelastic control, modifying flight control, and error tolerant flight control. It discusses theoretical outlook and current conceptual advancements in flight control systems along with describing theories of modified and fault-tolerant flight control systems. Each technique has been elaborated using illustrations and appropriate examples.

Aerospace Engineering

Jean Tabor

ISBN: 978-1-63240-135-9
$119.95 US
2015
Book Size: 6”x9”
276pp./Colored
Hardback

Deciphering Spacecraft Systems and Orbital Calculations

This book focuses on the limitations of existing technology and the creation of new technologies which are utilized for space missions. Various experts have contributed in the attempt to create a connection between current limitations and advancing technology to facilitate the field’s progress. It consists of information regarding methods to calculate the orbit which is based on researches in the field of astrophysics. This book also gives a comprehensive summary of spacecraft systems inclusive of the reliability of inexpensive AOCs, sliding mode controlling, and a novel view on attitude controller design based on sliding mode, with thrusters. Technological instructions for the optimization of HVAC are also discussed. Finally, this book provides a complete analysis of the attempt to resolve problems regarding space missions with the correlation of current technologies and novel developments. Hence, this book intends to give a comprehensive synopsis of the growth of technology in spacecraft systems.

Aerospace Engineering

Ted Dunham

ISBN: 978-1-63240-380-3
$149.95 US
2015
Book Size: 8.5”x11”
210pp./Colored
Hardback

New Insights into Aerospace Engineering: Volume I

Once there was a time when flying was only a distant dream, restricted to the imagination. Then, in 1903, the Wright brothers brought that dream to life by creating the world’s first viable aircraft. Since then the journey has been rapid. Developments have skyrocketed. Man has ventured into space. Aerospace engineering is a branch of engineering concerned with the research, design, development, construction, testing, science and technology of aircraft and spacecraft. This book delves deep into the world of aerospace engineering, exploring the recent developments and presenting innovative researches from across the globe.

Aerospace Engineering

Ted Dunham

ISBN: 978-1-63240-381-0
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback

New Insights into Aerospace Engineering: Volume II

Once there was a time when flying was only a distant dream, restricted to the imagination. Then, in 1903, the Wright brothers brought that dream to life by creating the world’s first viable aircraft. Since then the journey has been rapid. Developments have skyrocketed. Man has ventured into space. Aerospace engineering is a branch of engineering concerned with the research, design, development, construction, testing, science and technology of aircraft and spacecraft. This book delves deep into the world of aerospace engineering, exploring the recent developments and presenting innovative researches from across the globe.

Aircraft Technology

Natalie Spagner

ISBN: 978-1-63240-254-7
$119.95 US
2015
Book Size: 6”x9”
270pp./Colored
Hardback

Handbook of Aircraft Technology

Aircraft technology is a dynamic field. This book provides insightful information regarding the advancements in aircraft technology. Specifically, it covers a broad range of topics in aircraft electrical systems, inspection and maintenance and other diversified topics. The authors are leading veterans in their fields. This book should appeal to both the students as well as researchers.

Aviation

Natalie Spagner

ISBN: 978-1-63240-171-7
$119.95 US
2015
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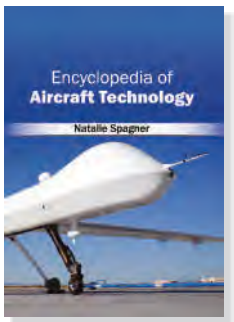


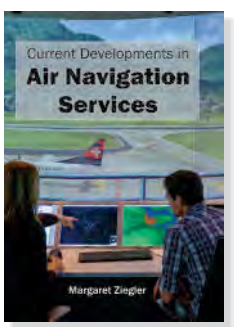
Encyclopedia of Aircraft Technology

Aircraft technology is a dynamic field. Substantial information regarding advancements in aircraft technology has been provided in this insightful book. It elucidates the most recent developments in technologies for several areas of aircraft systems. Specifically, it covers a broad range of topics in aircraft structures and modern materials, and control systems. The authors are leading veterans in their fields. This book should appeal to both the students as well as researchers.

Aviation

Margaret Ziegler

ISBN: 978-1-63240-124-3
$94.95 US
2015
Book Size: 6”x9”
186pp./Colored
Hardback



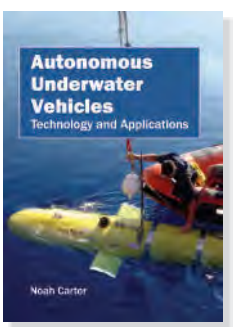
Current Developments in Air Navigation Services

Current developments in the field of air navigation services have been comprehensively described in this well-structured book. The division of air navigation services entered a new era of performance scheme that aims to meet requisite targets in four fundamental performance areas of safety, capacity, eco-friendliness and cost-efficiency. These key performance regions are interconnected by proportional and inversely proportional interrelations. For instance; if one aspires to expand sector capacity using the existing human resources (constant staff costs) but does not invest in technology (constant support cost) to accomplish higher cost-efficiency of service provision, the consequent overloaded system might unlock the Pandora’s box of underlying safety issues. Since there is no scope of failure, we - the common, migrating and traveling public, airspace users, airport operators, air navigation services providers and the economy - will only benefit from this system; achieving goals of performance scheme in the process. However, the fundamental question which remains unanswered is “What is the winning strategy?” This book provides an understanding of noteworthy oddities of the elements of new business models of air navigation services provision as advancement of the latter became vital.

Automotive Engineering

Noah Carter

ISBN: 978-1-63240-074-1
$119.95 US
2015
Book Size: 6”x9”
270pp./Colored
Hardback



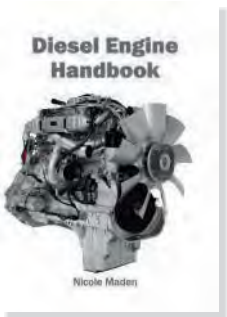
Autonomous Underwater Vehicles: Technology and Applications

The technology of autonomous underwater vehicles and their various applications are elucidated in a sophisticated and comprehensive way in this book. Autonomous Underwater Vehicles are robotic engines which travel underwater in order to study underwater activities. The successful developments of parallel research and technological studies that were underway; helped to conquer the challenges associated with autonomous operation in tough conditions. Some new models are already being employed to extract the best out of the present technology by making decisions according to the interpretation of the sensor data. This book is the comprehensive compilation of various aspects of AUV technology and its applications. Vehicle designing, navigation & control techniques and mission preparation & analysis are some of the topics that this book covers.

Automotive Engineering

Nicole Maden

ISBN: 978-1-63240-144-1
$119.95 US
2015
Book Size: 6”x9”
278pp./Colored
Hardback



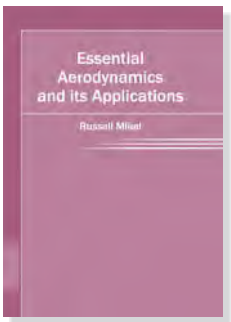
Diesel Engine Handbook

Diesel engine is acknowledged for its superior efficiency and possesses a wide field of applications. It is also known as CI engine. Diesel engines also however, are the prime source of emissions such as NOX and particulate matter (PM). In order to reduce the emissions to an absolute minimum, this book explain as to how these toxins can be regulated. It is no hidden secret that the world is witnessing an oil crisis. But with other alternative sources such as biogas, natural gas and coke based substances; diesel is not the only way forward. The unique characteristics and properties such as combustion and emission of the aforementioned alternatives are explained extensively in this book. The book also goes on to explain how one can look for early signs of wear and tear and malfunctioning components of a diesel engine and its parts.

Automotive Engineering

Russell Mikel

ISBN: 978-1-63240-222-6
$109.95 US
2015
Book Size: 6”x9”
204pp./Colored
Hardback



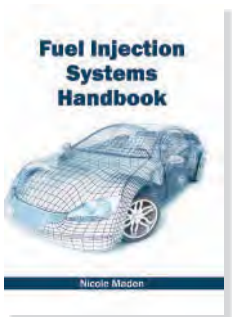
Essential Aerodynamics and its Applications

Aerodynamics is a field of dynamics related to the study of the properties of moving air and the interaction between the air and solid bodies moving through it. From the contemporary point of view, aerodynamics is a branch of physics that studies physical laws and their operations related to the displacement of a body into a fluid. This concept can be applied to any body moving in a fluid which is at rest or vice versa. It discusses various topics related to mobile and immobile aerodynamics, wave formation and distribution, flow check method and sports aerodynamics. This book will be beneficial for teachers and researchers who work in the various branches of this field ranging from experimental methods to computational procedures.

Automotive Engineering

Nicole Maden

ISBN: 978-1-63240-241-7
$79.95 US
2015
Book Size: 6”x9”
131pp./Colored
Hardback



Fuel Injection Systems Handbook

In this book, a descriptive account on fuel injection systems has been provided. It elucidates the central process that determines the development of internal combustion engines and performances of automotive vehicles. The book compiles original researches which focus on contemporary topics relevant to enhancing the injection phenomena per se and injection systems as the key components of the engine.

Automotive Engineering

Joseph Kent

ISBN: 978-1-63240-268-4
$149.95 US
2015
Book Size: 6”x9”
384pp./Colored
Hardback

Handbook of Electric Vehicles

An insightful introduction to Electric Vehicles (EVs) is provided in this book. The most important factor in political decision-making is public opinion. Therefore, it is very important to raise global ecological awareness and broader public education regarding ecology. Objective of this book is to bridge the gap between the readers and new drive technologies that are intended for environment and nature protection. This book showcases modern technical achievements and technologies used in the application of EVs. Also, various trends today like mathematical models and computer design elements of future cars are presented.

Automotive Engineering

Nicole Maden

ISBN: 978-1-63240-511-1
$159.95 US
2015
Book Size: 6”x9”
410pp./Colored
Hardback

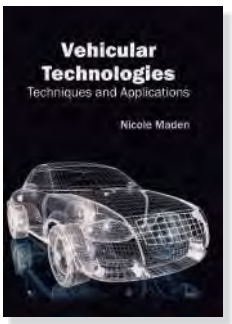
Vehicular and Automotive Engineering

In this book, descriptive information regarding vehicular and automotive engineering has been presented. An automobile was seen as a luxurious accessory in the early years of the past century. However, in recent years the extent of technology and human effort applied by the vehicular industry for developing high quality vehicles has become evident. This book introduces new and advanced topics regarding vehicular technology and automotive engineering, and offers guidelines for future research. This book compiles contributions from various experts from around the globe working in automotive and related fields. The contributions were selected so as to offer a vast range of research. This book includes latest and cutting edge topics such as electronics, mechanics, materials, and manufacturing.

Automotive Engineering

Nicole Maden

ISBN: 978-1-63240-512-8
$109.95 US
2015
Book Size: 6”x9”
231pp./Colored
Hardback



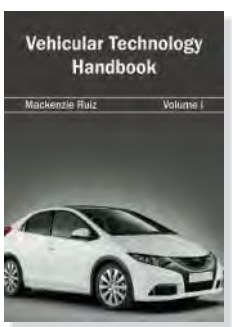
Vehicular Technologies: Techniques and Applications

The techniques and applications of vehicular technologies are discussed in this all-inclusive book. It provides a comprehensive overview of various aspects related to the field of vehicular technologies. It provides an insight for students and professionals in the area of vehicular communications. Furthermore, it elucidates and presents solutions for some of the most crucial issues in this field. This book also discusses various topics which address different facets of vehicular technology, such as infrastructure, cells deployment and its integration, access procedures, advanced services and applications as localization, relay-based cooperative networks, spectrum sensing, etc.

Automotive Engineering

Mackenzie Ruiz

ISBN: 978-1-63240-513-5
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback



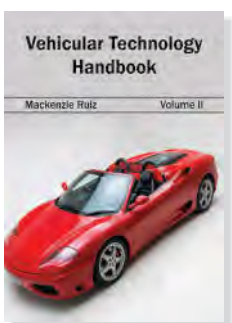
Vehicular Technology Handbook: Volume I

Vehicular technology has emerged as a self-sustaining area of study. Advancement in technology, constant research and exploration has led to the rapid progress of this field. The book attempts to explain and understand the researches happening across the globe in this field. The various advancements in vehicular technology are discussed and their applications as well as ramifications are looked at in detail. The various social issues that are concerned with vehicular technology are also glanced at. Researchers and aspirants in this discipline will find this book helpful.

Automotive Engineering

Mackenzie Ruiz

ISBN: 978-1-63240-514-2
$149.95 US
2015
Book Size: 8.5”x11”
224pp./Colored
Hardback



Vehicular Technology Handbook: Volume II

Vehicular technology has emerged as a self-sustaining area of study. Advancement in technology, constant research and exploration has led to the rapid progress of this field. The book attempts to explain and understand the researches happening across the globe in this field. The various advancements in vehicular technology are discussed and their applications as well as ramifications are looked at in detail. The various social issues that are concerned with vehicular technology are also glanced at. Researchers and aspirants in this discipline will find this book helpful.

Transport Engineering

Samuel Morgan

ISBN: 978-1-63240-497-8
$149.95 US
2015
Book Size: 8.5”x11”
209pp./Colored
Hardback

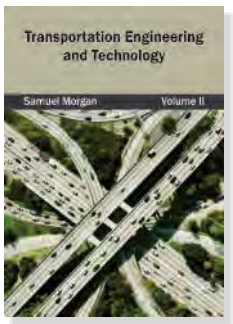
Transportation Engineering and Technology: Volume I

Transportation is an integral part of our lives. There has been a growing concern around the depletion of fossil fuels which has led to increased research activities to find alternative sources. Thus, the discipline of transportation technology has also undergone a major technological transformation and is constantly evolving. This book on transportation technology brings to the reader, all the current trends in this field from all over the globe.

Transport Engineering

Samuel Morgan

ISBN: 978-1-63240-498-5
$149.95 US
2015
Book Size: 8.5”x11”
204pp./Colored
Hardback



Transportation Engineering and Technology: Volume II

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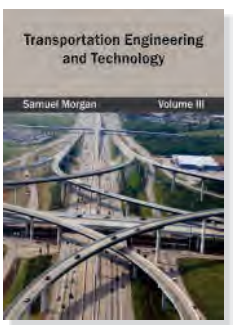
Transport Engineering

Samuel Morgan

ISBN: 978-1-63240-499-2
$149.95 US
2015
Book Size: 8.5”x11”
203pp./Colored
Hardback



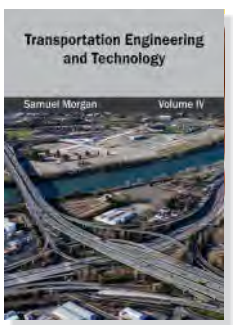
Transportation Engineering and Technology: Volume III

Transportation is an integral part of our lives. There has been a growing concern around the depletion of fossil fuels which has led to increased research activities to find alternative sources. Thus, the discipline of transportation technology has also undergone a major technological transformation and is constantly evolving. This book on transportation technology brings to the reader, all the current trends in this field from all over the globe.

Transport Engineering

Samuel Morgan

ISBN: 978-1-63240-500-5
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback



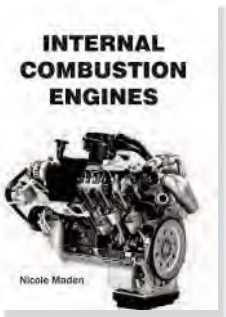
Transportation Engineering and Technology: Volume IV

Transportation is an integral part of our lives. There has been a growing concern around the depletion of fossil fuels which has led to increased research activities to find alternative sources. Thus, the discipline of transportation technology has also undergone a major technological transformation and is constantly evolving. This book on transportation technology brings to the reader, all the current trends in this field from all over the globe.

Engines

Nicole Maden

ISBN: 978-1-63240-319-3
$109.95 US
2015
Book Size: 6”x9”
246pp./Colored
Hardback



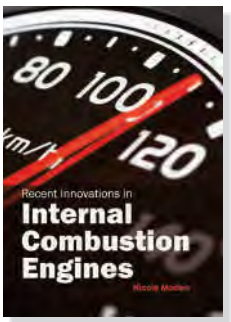
Internal Combustion Engines

This book concentrates on researches conducted on a broad range of engine issues. Some of the chapters constitute topics related to combustion, covering areas of study from fuel delivery to exhaust emission. It also deals with varied issues related to engine design, modeling, production, control and testing. This book brings all the chapters together to create a logical whole which will be helpful for readers interested in learning more about internal combustion engines.

Engines

Nicole Maden

ISBN: 978-1-63240-001-7
$144.95 US
2015
Book Size: 6”x9”
315pp./Colored
Hardback



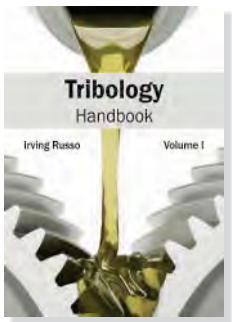
Recent Innovations in Internal Combustion Engines

Here’s a closer look at utilization and development of renewable fuel based combustion technologies that are environment friendly. The main purpose of this literature is dual: finding fuel alternatives for combustion systems and advances in internal combustion engines. Over the years, while internal combustion engines have been the mainstay for ground transport, there has been wide success achieved in recently, just like the new design concepts introduced. A considerable increase is predicted in the range of fuels like biofuels, new fossil fuel feedstock and processing methods, especially in the developed and emerging markets. Present and future combustion techniques continue to be influenced by variations in fuel values that make it imperative to comprehend the fuel mixes and its impact on combustion processes in various systems. This is a book that permits a comprehensive coverage of the extremes of the theme, in a simple yet progressive way.

Tribology

Irving Russo

ISBN: 978-1-63240-501-2
$149.95 US
2015
Book Size: 8.5”x11”
210pp./Colored
Hardback



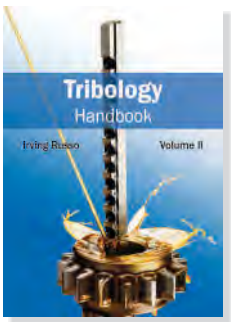
Tribology Handbook: Volume I

This book on Tribology provides all key concepts and major advancements in this field. Methodologies which are used extensively all over the globe in industries to minimize the impacts of friction have been incorporated in this book. It includes theories as well as practical implementations of procedures such as coatings, lubrications, bearings among numerous others. The book also contains some chapters which explore the effects of wear caused due to tribology. It aims to be a resourceful guide for both basic and advanced concepts in Tribology.

Tribology

Irving Russo

ISBN: 978-1-63240-502-9
$149.95 US
2015
Book Size: 8.5”x11”
218pp./Colored
Hardback



Tribology Handbook: Volume II

This book on Tribology provides all key concepts and major advancements in this field. Methodologies which are used extensively all over the globe in industries to minimize the impacts of friction have been incorporated in this book. It includes theories as well as practical implementations of procedures such as coatings, lubrications, bearings among numerous others. The book also contains some chapters which explore the effects of wear caused due to tribology. It aims to be a resourceful guide for both basic and advanced concepts in Tribology.

Navigation

Margaret Ziegler

ISBN: 978-1-63240-249-3
$94.95 US
2015
Book Size: 6”x9”
167pp./Colored
Hardback

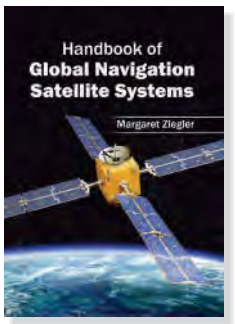
Global Navigation Satellite Systems

This book presents a comprehensive overview on the historical advances and current state of global navigation satellite systems. Nowadays, satellite navigation presents handy substitutes for terrestrial and stellar navigation techniques that are not only universal and easy to operate but also available day and night. The end user navigation equipment, initially bulky and costly, did not fully develop until the microprocessor became viable during the late 1970s. Currently, three major alternative global navigation satellite systems are fully or partially functional: the European Union Galileo, the Russian GLONASS, and the Chinese BeiDou. The question of uncertainty of the future of this technology still looms. Possibly, a network of global satellite navigation techniques is the ultimate solution, with rise in satellite coverage and advanced accuracy, integrity and authenticity, as these systems advance further. End user equipment will consistently advance in compactness, efficiency and cost-effectiveness. However, in various aspects, satellite navigation systems have derived much from the old-time stellar navigation system, having kept humankind to seek the skies for help.

Navigation

Margaret Ziegler

ISBN: 978-1-63240-272-1
$159.95 US
2015
Book Size: 6”x9”
438pp./Colored
Hardback



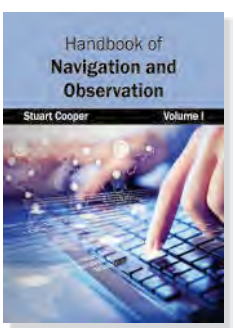
Handbook of Global Navigation Satellite Systems

Lucid descriptions of Global Navigation Satellite Systems (GNSS) are provided in this thorough and reader-friendly book. GNSS plays a significant role in high accuracy navigation, positioning, and technical questions connected to accurate positioning. It is an extremely accurate, constant, all-weather and real-time method. This book presents current outcomes and innovations in GNSS technology, organization, signal, receiver, technique and sources of error. Its various functions in hybrid positioning, multi-sensor incorporation, height system, NRTK, etc. have also been evaluated and analyzed. This book intends to help experts and students in knowing the topic in a better way.

Navigation

Stuart Cooper

ISBN: 978-1-63240-279-0
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback



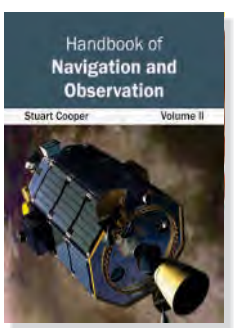
Handbook of Navigation and Observation: Volume I

Navigation and observation is a rapidly growing field of science and constant researches are conducted across the globe in this field. The aim of this book is to explore the latest concepts and diverse applications of navigation systems, object positioning, and observation of earth. This book contains new concepts and challenges in the development of applications and advanced researches. The chapters included in this book have undergone a tremendous reviewing process, in order to prove helpful to engineers, researchers and students in this field.

Navigation

Stuart Cooper

ISBN: 978-1-63240-280-6
$149.95 US
2015
Book Size: 8.5”x11”
205pp./Colored
Hardback



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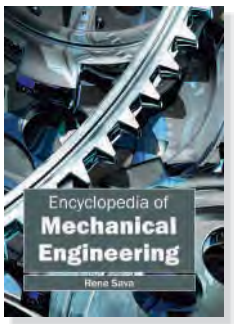
Mechanical Engineering

Rene Sava

ISBN: 978-1-63240-196-0
$149.95 US
2015
Book Size: 6”x9”
364pp./Colored
Hardback



Encyclopedia of Mechanical Engineering

Mechanical engineering is one of the most important disciplines in engineering. This book discusses the current advancements made in the field of mechanical engineering, and consists of various studies conducted utilizing state of the art methodologies by prominent experts from different countries. Some of the topics covered within the book are manufacturing procedures and power transmission systems. This book will be of use to readers interested in the field of mechanical engineering and its applications.

Mechanical Engineering

Nathan Rice

ISBN: 978-1-63240-273-8
$159.95 US
2015
Book Size: 6”x9”
412pp./Colored
Hardback

Handbook of Heat Transfer

Heat transfer is involved in numerous industrial technologies. This interdisciplinary book deals with combined action of heat transfer and concomitant processes. It discusses heat effects due to laser, ion and plasma-solid interaction. Also, engineering applications of heat conduction equations to the curing reaction kinetics in manufacturing process, their combination with mass transport or ohmic and dielectric losses, heat conduction in metallic porous media and power cables have been considered. Analysis of the safety of mine hoist under influence of heat produced by mechanical friction, heat transfer in boilers and internal combustion engine chambers, management for ultrahigh strength steel manufacturing have been extensively discussed as well. There is also a special focus on air cooling of electronic devices.

Mechanical Engineering

Nathan Rice

ISBN: 978-1-63240-297-4
$109.95 US
2015
Book Size: 6”x9”
260pp./Colored
Hardback

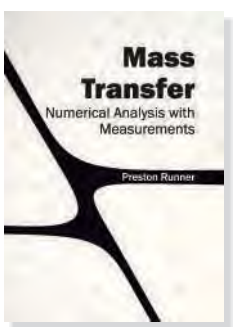
Heat Transfer Sourcebook

This book includes an extensive examination of heat transfer phenomenon and its potential. In today’s world, unprecedented industrial growth, rapid urbanization, developments in transportation and persistent human habits have resulted in acute energy shortage. In such a scenario, energy saving can be vitally affected by efficient transfer of heat. Effective heat exchange tools have a great impact on industries, household requirements, offices and transportation. Taking these factors into account, this book has incorporated a structured study of the general aspects of heat transfer phenomena, convection, boiling and condensation by various means.

Mechanical Engineering

Preston Runner

ISBN: 978-1-63240-335-3
$109.95 US
2015
Book Size: 6”x9”
254pp./Colored
Hardback



Mass Transfer: Numerical Analysis with Measurements

In this book, experts provide recent developments in scientific findings and technologies, and introduce new theoretical models concerning mass transfer for sustainable energy and environment. The expertise of mass transfer processes has been extended and applied to different realm of science and engineering, including industrial applications in recent years. Since mass transfer is a primeval phenomenon, it plays a vital role in the scientific researches and fields of mechanical, energy, environmental, materials, bio and chemical engineering. The chapters have been grouped under a section advances in numerical analysis and measurement. The topics cover the developments in broad research areas, hence, the book will be informative not only to research engineers, but also to university professors and students.

Mechanical Engineering

Rene Sava

ISBN: 978-1-63240-349-0
$144.95 US
2015
Book Size: 6”x9”
330pp./Colored
Hardback

Mechanical Engineering

This book documents up-to-date information on mechanical engineering, which is one of the most important disciplines in engineering. This book discusses the current advancements made in the field of mechanical engineering, and consists of various studies conducted utilizing state of the art methodologies by prominent experts from different countries. Some of the topics covered within the book are thermo-fluid systems, computer applications, recent advancements in the systems of mechanical engineering education and organization, among others. This book will be of use to readers interested in the field of mechanical engineering and its applications.

Mechanical Engineering

Nathan Rice

ISBN: 978-1-63240-384-1
$119.95 US
2015
Book Size: 6”x9”
289pp./Colored
Hardback

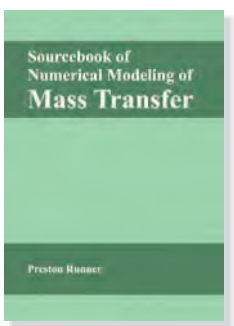
New Insights into Heat Transfer

The aim of this book is to present innovative advancements in the usage of heat transfer phenomenon. In today’s world, unprecedented industrial growth, rapid urbanization, developments in transportation and persistent human habits have resulted in acute energy shortage. In such a scenario, energy saving can be vitally affected by efficient transfer of heat. Effective heat exchange tools have a great impact on industries, household requirements, offices and transportation. Taking these factors into account, this book has incorporated a structured study of two phase flow of heat transfer and heat augmentation by various means.

Mechanical Engineering

Preston Runner

ISBN: 978-1-63240-470-1
$119.95 US
2015
Book Size: 6”x9”
271pp./Colored
Hardback



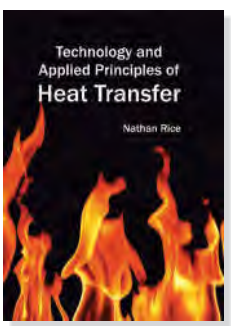
Sourcebook of Numerical Modeling of Mass Transfer

This book presents beneficial research into advanced numerical modelings. The expertise of mass transfer processes has been extended and applied to different realm of science and engineering including industrial applications in recent years. Since mass transfer is primeval phenomenon, it plays a vital role in the scientific researches and fields of mechanical, energy, environmental, materials, bio and chemical engineering. In this book, experts provide recent developments in scientific findings and technologies, and introduce new theoretical models concerning mass transfer for sustainable energy and environment. Thus, the book provides beneficial references for research engineers working in the variety of mass transfer sciences and related fields, and also be resourceful for university students.

Mechanical Engineering

Nathan Rice

ISBN: 978-1-63240-481-7
$149.95 US
2015
Book Size: 6”x9”
384pp./Colored
Hardback



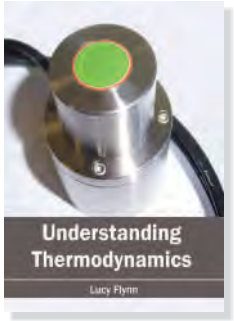
Technology and Applied Principles of Heat Transfer

Heat transfer is fundamentally described as the energy in transit due to temperature difference. Heat transfer calculations in various facets of engineering applications are significant to aid engineering design of heat exchanging apparatus. Reducing computational time is a demanding task faced by researchers and users. The book discusses the calculation procedure in some application fields, such as differential evaluation of heat recoveries with CFD in a tube bank, heating and ventilation of equipment, and methods for analytical solution of nonlinear problems. Numerical evaluation is the prerequisite for design and manufacture of heat exchanging tools. Numerical and experimental knowledge, as well as the analytical solution of heat transfer is also discussed. Furthermore, the book elaborates on the study of heat transfer phenomenon and its applications.

Thermodynamics

Lucy Flynn

ISBN: 978-1-63240-507-4
$149.95 US
2015
Book Size: 8.5”x11”
230pp./Colored
Hardback



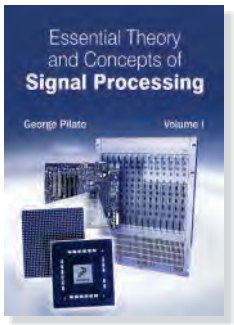
Understanding Thermodynamics

After a careful selection of scientific contributions in the field of thermodynamics, this book has been compiled keeping in mind the recent advancements in this field. It mainly focuses on the description of different concepts of thermodynamics in various scientific areas. The book contains contributions from scientists, describing the fundamentals as well as diverse applications in different areas of technological advancement. Different readers such as bachelors and postgraduate students, researchers, etc. will benefit from this book.

Electrical Engineering

George Pilato

ISBN: 978-1-63240-225-7
$149.95 US
2015
Book Size: 8.5”x11”
206pp./Colored
Hardback



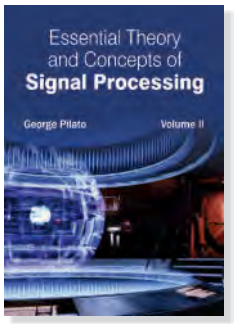
Essential Theory and Concepts of Signal Processing: Volume I

This book attempts to understand the multiple researches that fall under signal processing and how such ongoing research can affect our lives. The various concepts that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here. This book aims to collate the most up-to-date information and innovative studies from across the globe that has given a new direction to this discipline. Researchers and students in this field in search of information to further their knowledge of this field will be greatly assisted by this book.

Electrical Engineering

George Pilato

ISBN: 978-1-63240-226-4
$149.95 US
2015
Book Size: 8.5”x11”
199pp./Colored
Hardback



Essential Theory and Concepts of Signal Processing: Volume II

This book attempts to understand the multiple researches that fall under signal processing and how such ongoing research can affect our lives. The various concepts that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here. This book aims to collate the most up-to-date information and innovative studies from across the globe that has given a new direction to this discipline. Researchers and students in this field in search of information to further their knowledge of this field will be greatly assisted by this book.

Electrical Engineering

Maurice Willis

ISBN: 978-1-63240-304-9
$119.95 US
2015
Book Size: 6”x9”
266pp./Colored
Hardback

Induction Motors

Prompted by the necessity of power-efficient progresses, procedure optimization, soft-start capacity and more ecological profits, there is a growing need to use induction motors for multiple functions at steady adaptable paces. These motors are capable of providing high manufacturing outcome with energy efficiency in varied industrial uses and are the core of advanced automation. This book disseminates knowledge about growing concerns in this area, like modeling. The collaboration of contributions by renowned scientists make this book not just a mechanical account of information but an international exploration on the technology of induction motors for readers. It provides them with a mixture of theory, implementation problems and practical examples.

Electrical Engineering

Maurice Willis

ISBN: 978-1-63240-305-6
$144.95 US
2015
Book Size: 6”x9”
304pp./Colored
Hardback

Induction Motors Handbook

Induction motors are capable of providing high manufacturing outcome with energy efficiency in varied industrial uses and are the core of advanced automation. Prompted by the necessity of power-efficient progresses, procedure optimization, soft-start capacity and more ecological profits, there is a growing need to use induction motors for multiple functions at steady adaptable paces. This book disseminates knowledge about growing concerns in this area, like noise and control schemes applied for high-performance functions and diagnostics. The collaboration of contributions by renowned scientists make this book not just a mechanical account of information but an international exploration on the technology of induction motors for readers. It provides them with a mixture of theory, implementation problems and practical examples.

Electronic Engineering

Martin Limestone

ISBN: 978-1-63240-442-8
$144.95 US
2015
Book Size: 6”x9”
302pp./Colored
Hardback

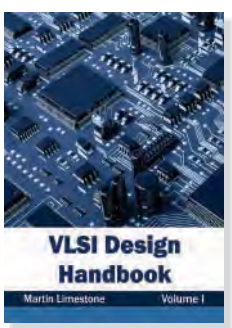
Recent Advances in VLSI Design

Very-large-scale integration (VLSI) is the procedure of making an integrated circuit by joining several transistors into a single chip. This book presents an overview on current developments in design nanometer VLSI chips. The vital information described in this book discusses frequently encountered complications and challenges covering significant topics such as novel post-silicon devices, GPU-based parallel computing, design tools, antenna design and rising 3D integration. The book covers the following major aspects of VLSI Design: 3D integrated circuits design for 1000-core processors, Algorithms for CAD tools VLSI design, VLSI design for multi-sensor smart systems on a chip, multilevel mimetic algorithm for large SAT-encoded complications and Parallel symbolic analysis of large analog circuits on GPU platforms.

Electronic Engineering

Martin Limestone

ISBN: 978-1-63240-519-7
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback



VLSI Design Handbook: Volume I

This book on VLSI has been compiled with two aims; first, to provide the reader with a systematic approach in learning the VLSI models and secondly, to provide a conceptual handbook on VLSI designs. Applications of VLSI models have been covered in detail in this book. The chapters describe the designing as well as implementations and other aspects of VLSI design thoroughly. While on one hand, this book can be used as a guide by students; on the other, it can serve as an advanced text in this field to keep a track of the recent advancements in the VLSI designing technology.

Electronic Engineering

Martin Limestone

ISBN: 978-1-63240-520-3
$149.95 US
2015
Book Size: 8.5”x11”
214pp./Colored
Hardback

VLSI Design Handbook: Volume II

This book on VLSI has been compiled with two aims; first, to provide the reader with a systematic approach in learning the VLSI models and secondly, to provide a conceptual handbook on VLSI designs. Applications of VLSI models have been covered in detail in this book. The chapters describe the designing as well as implementations and other aspects of VLSI design thoroughly. While on one hand, this book can be used as a guide by students; on the other, it can serve as an advanced text in this field to keep a track of the recent advancements in the VLSI designing technology.

Electronics Components

Kate Brown

ISBN: 978-1-63240-407-7
$119.95 US
2015
Book Size: 6”x9”
267pp./Colored
Hardback

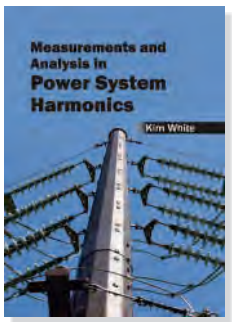
Photodetectors Handbook

Few recent developments in enhancement of photodetectors and photodetection systems for particular applications are covered in this all inclusive book. It consists of theoretical aspects and simulations. It also provides information regarding the optimization of photodetection systems for transfers of time, measurement of vibrations, imaging, particle size analysis, magnetic field, particle energy, and polarization of light. The aim of this book is to serve as a valuable source of reference for researchers, students, and engineers engaged in the field of photonics and advanced technologies.

Electric Power

Kim White

ISBN: 978-1-63240-348-3
$119.95 US
2015
Book Size: 6”x9”
289pp./Colored
Hardback



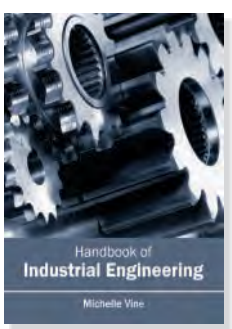
Measurements and Analysis in Power System Harmonics

The concepts of measurements and analysis in power system harmonics are discussed in this elaborative book. The rise in the usage of power electronics equipment has led to significant distortions. An ideal AC power system is purely a sinusoidal wave, both voltage and current. However, the increasing existence of non-linear loads changes the aspects of voltage and current from the perfect sinusoidal wave. This alteration from the perfect wave is reflected by the harmonics and although its effects vary based upon the type of load, it affects the effectiveness of an electrical system and can create extensive damage to the system and infrastructure. Establishing ideal power quality after a good design and devices leads to productivity, efficiency, competitiveness and profitability. However, nobody can promise the ideal power quality when there is a good design, if the accurate tests and working methods from the collected information are not properly assured at every moment; this entails processing the actual information accurately. This book discusses harmonics analysis, ranging from the actual measurement data to the study of various industrial environments and electronic tools.

Industrial Engineering

Michelle Vine

ISBN: 978-1-63240-274-5
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback



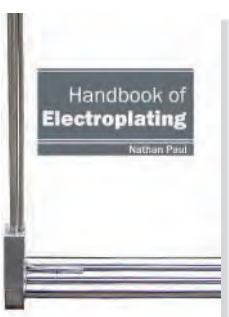
Handbook of Industrial Engineering

This book combines the theoretical concepts and nascent researches in the field of industrial engineering. The aim of this book is to present the intricacies and unexplored aspects of industrial engineering, which can facilitate the growth of science and simultaneously set the ground-work for future research. The topics that are presented in this book are written by international scholars and experts from the discipline.

Electroplating

Nathan Paul

ISBN: 978-1-63240-269-1
$94.95 US
2015
Book Size: 6”x9”
177pp./Colored
Hardback



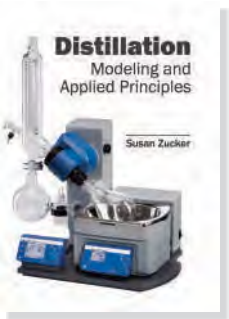
Handbook of Electroplating

The process of depositing a thin coating of one metal on top of a different metal is known as electroplating. This book focuses on new applications of electroplating, keeping in mind the environmental aspect and experimental design. This book provides a comprehensive overview of the new functions of electroplating. It also presents a resolution for the environmental problems caused by the electroplating process and discusses an experimental design for the optimization of electro deposition procedures. The book includes contributions by prominent experts from academics as well as electroplating industries.

Distillation

Susan Zucker

ISBN: 978-1-63240-149-6
$119.95 US
2015
Book Size: 6”x9”
294pp./Colored
Hardback



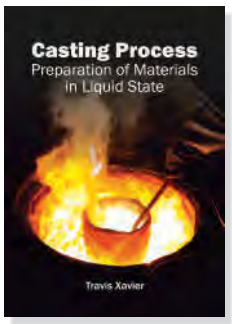
Distillation: Modeling and Applied Principles

This book describes the process of distillation and its modeling applications. Distillation modeling and various applications generally in food processing field are elucidated in this book targeting the simulation of distillation procedure as well as the thermodynamic mathematical basics. The overviews and practical experiences presented in this book are primarily concerned with the food and beverage industry and aroma extraction. The aim of this book is to provide useful insight regarding the field of distillation to the interested researchers.

Casting

Travis Xavier

ISBN: 978-1-63240-093-2
$149.95 US
2015
Book Size: 6”x9”
358pp./Colored
Hardback



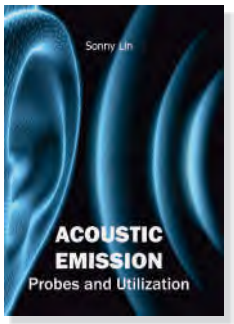
Casting Process: Preparation of Materials in Liquid State

Casting is basically described as a manufacturing process through which a liquid material is solidified with the help of a mould which consists of a hollow cavity of the desired shape. This book consists of different science and technology factors that require careful consideration for casting production. It includes contributions by various professionals with extensive experience in their respective areas. This book discusses topics such as simulation of continuous casting process, control of solidification of continuous castings, effect of mold flux in constant casting, segregation in strip casting of steel, and advancements in shell and solid investment mold methods. It also elucidates various issues related to permanent molding of cast iron, pressure control during filling sand molds, wear resistant castings, and progress in the accurate estimation of graphite nodularity in ductile iron castings.

Acoustics

Sonny Lin

ISBN: 978-1-63240-009-3
$109.95 US
2015
Book Size: 6”x9”
231pp./Colored
Hardback



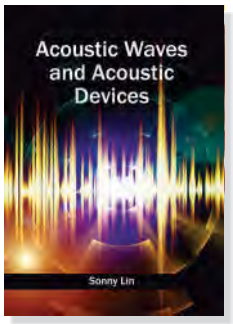
Acoustic Emission: Probes and Utilization

A variety of information related to acoustic emission has been compiled in this book. Acoustic Emission (AE) is a phenomenon in which elastic or stress waves are produced from speedy, localized change of strain energy in substances. The practical function of AE first emerged in the 1950s, but it is only in the last two decades that the science, technology and applications of AE have progressed notably. At present, AE has become one of the most significant non-destructive testing methods. This multidisciplinary book contains data which demonstrates that the AE method is constantly rising and extensively functional in on-line monitoring of civil-engineering constructions such as flyovers, buildings, etc. AE is also applied for the exposure of fatigue cracks and their positions in complex vessels and pipelines, damage estimation in fiber-toughened polymer-matrix compounds, among others. This book will be helpful for both students and experts interested in this field.

Acoustics

Sonny Lin

ISBN: 978-1-63240-010-9
$144.95 US
2015
Book Size: 6”x9”
316pp./Colored
Hardback



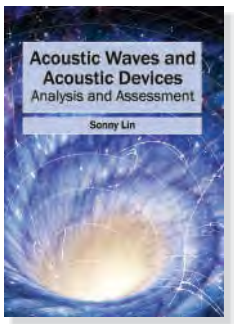
Acoustic Waves and Acoustic Devices

Acoustics is an advanced field which enjoys a never ending youth and novel innovations in this field are introduced by either the search for a better comprehension, or by technological innovations. Micro-fabrication methodologies introduced a complete novel class of microdevices, which exploit acoustic waves for several different tasks, specifically for sensing purposes and information processing. Performance enhancements are achievable by optimized modelling tools, which are able to deal with more complicated configurations, and through more enhanced strategies of fabrications and of integration in technological systems, for example wireless communications. This book primarily deals with modelling and fabrication methods for microdevices, including unusual configurations and phenomena. Theoretical studies and modelling strategies are discussed, for phenomena ranging from the revelation of cracks to the acoustics of the oceans.

Acoustics

Sonny Lin

ISBN: 978-1-63240-011-6
$144.95 US
2015
Book Size: 6”x9”
307pp./Colored
Hardback



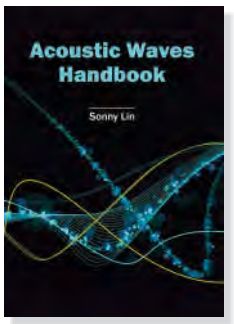
Acoustic Waves and Acoustic Devices:
Analysis and Assessment

This book brings forth an analysis and assessment of acoustic waves and devices. Acoustics is an advanced field which enjoys a never ending youth and novel innovations in this field are introduced by either the search for a better comprehension, or by technological innovations. Micro-fabrication methodologies introduced a complete novel class of microdevices, which exploit acoustic waves for several different tasks, specifically for sensing purposes and information processing. Performance enhancements are achievable by optimized modelling tools, which are able to deal with more complicated configurations, and through more enhanced strategies of fabrications and of integration in technological systems, for example wireless communications. This book primarily deals with analysis and models of acoustic devices its theoretical studies and modelling strategies; and the measurement techniques which explore the properties of broadly distinct systems.

Acoustics

Sonny Lin

ISBN: 978-1-63240-012-3
$144.95 US
2015
Book Size: 6”x9”
332pp./Colored
Hardback



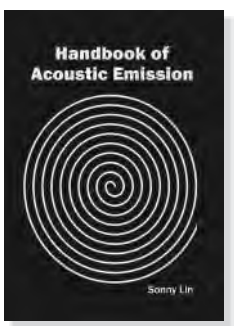
Acoustic Waves Handbook

In this book, acoustic waves have been described comprehensively. The concept of acoustic wave is an extensive one; it materializes in a variety of mediums, from solids to plasmas, and at varying length and time scales which range from sub-micrometric layers in microdevices to seismic waves in the Sun's interior. This book discusses various approaches of the active research going on in this field. Theoretical attempts lead to a comprehensive understanding of this phenomenon. Such waves are useful in exploring the characteristics of a variety of structures, be it inorganic layers or other bio-structures. These waves can also function as a tool to influence matter, from the gentle evaporation of bio-molecules to be evaluated, to the phase conversions inferred by intense shock waves. Furthermore, a whole class of widespread micro tools, inclusive of filters and sensors, depends upon the behavior of these waves propagating in fine layers.

Acoustics

Sonny Lin

ISBN: 978-1-63240-253-0
$159.95 US
2015
Book Size: 6”x9”
410pp./Colored
Hardback



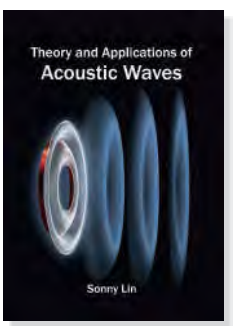
Handbook of Acoustic Emission

The aim of this book is to provide state-of-the-art information regarding the concept of Acoustic Emission (AE). AE is a significant and non-harmful testing procedure for substances, constructions and machines. It is defined as the transient elastic energy that is spontaneously released when substances undergo deformation, fracture or both. It presents significant applications of AE procedure like the evaluation of machinery and civil structures condition, fatigue and fracture substances research, detection of substance defects and deformities, monitoring of stress and ageing in substances, chemical reactions and phase transitions research, and earthquake prediction.

Acoustics

Sonny Lin

ISBN: 978-1-63240-491-6
$144.95 US
2015
Book Size: 6”x9”
344pp./Colored
Hardback



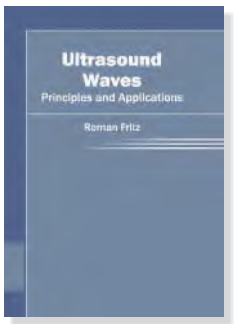
Theory and Applications of Acoustic Waves

This book discusses various approaches of the active research going on in the field of acoustic waves. The concept of acoustic wave is an extensive one; it materializes in a variety of mediums, from solids to plasmas, and at varying length and time scales which range from sub-micrometric layers in microdevices to seismic waves in the Sun's interior. Theoretical attempts lead to a comprehensive understanding of this phenomenon. Such waves are useful in exploring the characteristics of a variety of structures, be it inorganic layers and/or other bio-structures. These waves can also function as a tool to influence matter, from the gentle evaporation of bio-molecules to be evaluated, to the phase conversions inferred by intense shock waves. Furthermore, a whole class of widespread micro tools, inclusive of filters and sensors, depends upon the behavior of these waves propagating in fine layers. The book highlights acoustic waves as manipulative tools and as microdevices.

Acoustics

Roman Fritz

ISBN: 978-1-63240-503-6
$144.95 US
2015
Book Size: 6”x9”
304pp./Colored
Hardback



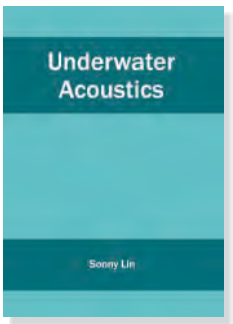
Ultrasound Waves: Principles and Applications

The principles and applications of ultrasound waves are described in this up-to-date book. Ultrasonic waves have applications in a variety of fields such as medicine, engineering, biology, physics, etc. This book includes contributions from prominent researchers around the globe and introduces various applications of ultrasonic waves. It discusses topics such as phased array modelling, ultrasonic thrusters, positioning systems, tomography, projection, gas hydrate bearing sediments and Doppler Velocimetry which, combined with substances characterization, mining, corrosion and gas removal by ultrasonic technology, form an interesting set of updated information. Theoretical advances on ultrasonic wave investigation are also showcased in this book, especially about topics like modelling the generation and distribution of waves, and the influence of Goldberg's number on estimation for finite amplitude acoustic waves. Readers will find this book a valuable source of knowledge where authors have explained their research works in a clear way, basing them on relevant bibliographic references and real challenges of their area of study.

Acoustics

Sonny Lin

ISBN: 978-1-63240-508-1
$79.95 US
2015
Book Size: 6”x9”
147pp./Colored
Hardback



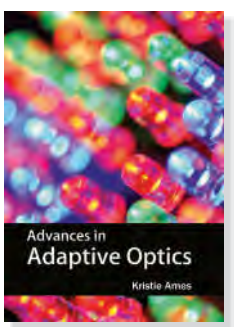
Underwater Acoustics

This book provides up-to-date information as well as introduction to underwater acoustics, which is described as the analysis of the propagation of sound in water and the interplay of the mechanical waves that constitute sound with the water and its boundaries. A wide range of topics are encompassed in this book like localization of buried objects in sediment with the help of high resolution array processing techniques, underwater acoustic source localization, adaptive strategy for underwater acoustic communication, etc. Researchers and scientists from across the world have contributed valuable data and information in this all-inclusive book. The aim of this elucidative book is to serve as a useful source of reference for readers including researchers, students and even scientists who are interested in acquiring knowledge regarding this field.

Optics

Kristie Ames

ISBN: 978-1-63240-045-1
$109.95 US
2015
Book Size: 6”x9”
227pp./Colored
Hardback



Advances in Adaptive Optics

This book is designed to provide an ideal introduction to the field of adaptive optics. In the past few years, there has been constant development in adaptive optics technology, theory, and systems growth. Lately, there has been an increase in the applications of adaptive optics in the fields of communications and medicine, in addition to its unique uses in astronomy and beam transmission. This book elucidates solar astronomy, optical vortices, retinal imaging, and many other related topics. It is a compilation of various well researched chapters intended to help its reader in gaining more knowledge regarding this field.

Optics

Vladimir Latinovic

ISBN: 978-1-63240-231-8
$94.95 US
2015
Book Size: 6”x9”
187pp./Colored
Hardback

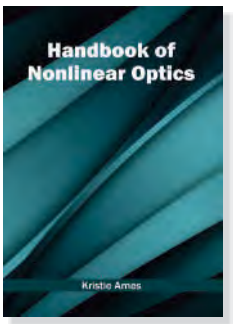
Essentials of Optical Amplifiers

Essential information regarding the field of optical amplifiers has been elucidated in this book. The increase in information traffic at an explosive pace accounts for a crucial role of optics in meeting the demand of data processing and super-fast computing. Optical amplifiers play an essential role in optical communication field. This book provides insight into the advanced functionalities of optical amplifiers and the related newly developing applications, like optical packet switching architectures, high speed switches, SOA in the next generation of optical access network, microwave photonic system, frequency encoded all-optical logic processors etc. It also provides evaluation of variation of material gain of QD structure and technology for improving the gain and noise figure of EDFA among other supporting topics. These topics provide comprehensive understanding of optical amplifiers in contemporary scenario for the reference of academicians and researchers.

Optics

Kristie Ames

ISBN: 978-1-63240-281-3
$109.95 US
2015
Book Size: 6”x9”
236pp./Colored
Hardback



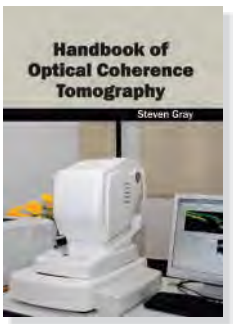
Handbook of Nonlinear Optics

Major aspects of nonlinear optics have been discussed in this book. Characterization of properties of light traversal in non-linear media has always intrigued scientists and researchers. Accelerated advancement of laser techniques and optoelectronic devices account for a crucial task of formulating and analyzing the structures capable of efficiently transforming, modulating, and recording optical data in a wide spectrum of radiation energy densities and frequencies at one hand, and novel approaches and schemes capable of activating and stimulating the contemporary features on the other. It is a known fact that the phenomena and materials of nonlinear optics have an assuring place in dealing with these intricate technical tasks. The state-of-the-art ideas, approaches, and information presented in this book will be beneficial to the readers in developing a sustainable solution in basic analysis as well as industrial approach. The aim of this book is to serve as a useful source of information for students, researchers, engineers and technical officers of optoelectronic universities and companies.

Optics

Steven Gray

ISBN: 978-1-63240-283-7
$119.95 US
2015
Book Size: 6”x9”
292pp./Colored
Hardback



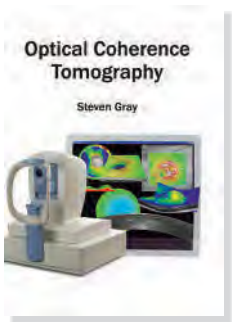
Handbook of Optical Coherence Tomography

The aim of this book is to educate the readers regarding the field of Optical Coherence Technology (OCT) with the help of advanced information. It presents researches and studies conducted in the field of optical coherence technology. It includes contributions of scientists and experts from all over the world. The book covers technological developments in the field of OCT along with industrial and clinical applications. It presents distinct accounts on various topics like full field OCT, ultrahigh resolution OCT and the functional extension of OCT. It also sheds light on the applications of OCT in dentistry, ophthalmology and cardiology. The main objective of the book is to facilitate physicians, researchers and students in their respective studies associated with this field.

Optics

Steven Gray

ISBN: 978-1-63240-400-8
$94.95 US
2015
Book Size: 6”x9”
192pp./Colored
Hardback



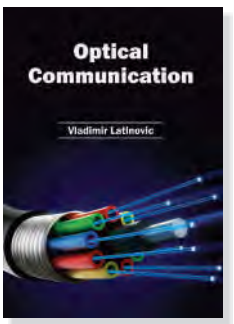
Optical Coherence Tomography

This book presents the state-of-the-art information regarding optical coherence tomography. Optical coherence tomography (OCT) is an imaging technique providing high-resolution cross-sectional images in several fields of engineering and medicine. OCT images are created by measuring the intensity of reflected or back scattered light which is scanned across the tissue and material. The aim of this book is to present elaborative information on OCT in a wide spectrum of fields including oncology, engineering, ophthalmology and atherosclerosis.

Optics

Vladimir Latinovic

ISBN: 978-1-63240-401-5
$159.95 US
2015
Book Size: 6”x9”
454pp./Colored
Hardback



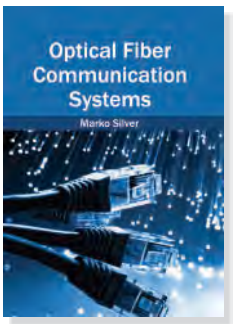
Optical Communication

Optical communication has a significant presence in the telecommunications and data networking sectors. Optical communication is an essential part of telecommunication systems, data processing and networking. It can be performed visually or by using electronic devices. It consists of a transmitter that encodes any information into an optical signal, a channel that carries the signal to its desired destination, and a receiver that reproduces that information from the received optical signal. This book deals with the basic concepts, components, systems, networks, signal processing, etc. In the past few decades, optical mechanism and other improved signal processing functions have been considered in-depth for optical communications systems. The book also explains MIMO system thoroughly. We intend to help our readers with the compilation of researches and theories mentioned in this book.

Optics

Marko Silver

ISBN: 978-1-63240-402-2
$149.95 US
2015
Book Size: 6”x9”
392pp./Colored
Hardback



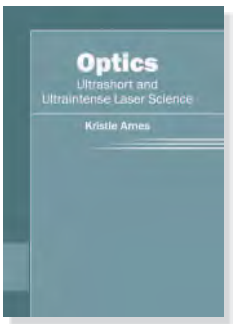
Optical Fiber Communication Systems

This book is an important resource elaborating recent developments achieved in fiber communications systems. It consists of a compilation of research works on the essential technologies and mathematical concepts underlying optical fiber communications and devices of our age. The book encompasses various topics like the topologies and architecture of these networks, PONs, WANs, LANs, secure optical communication among others. Therefore, it presents an all-inclusive overview on latest research trends and technologies associated with these topics. It integrates contributions by veteran scientists and academicians hailing from renowned universities and research centers associated with the fields of optical communications and photonics. This book will serve as a valuable reference with a wide spectrum of information about this field. It will appeal to practitioners and researchers engaged in the field of photonics and optical communications.

Optics

Kristie Ames

ISBN: 978-1-63240-403-9
$159.95 US
2015
Book Size: 6”x9”
447pp./Colored
Hardback



Optics: Ultrashort and Ultraintense Laser Science

Optics is generally defined as the scientific study of sight and the behavior of light, or the properties of transmission and deflection of other forms of radiation. The power of laser pulse is growing gradually every year due to development in ultra-short and ultra-intense laser technologies. Due to the easy accessibility of these new machines to researchers, experiments have witnessed total remodeling in non-linear optics. This is because an advanced physical picture of light matter correlation comes to fore whenever the laser pulse intensity approaches or exceeds intra-atomic field power. A very broad band of electromagnetic beam is ascertained when the laser rays are adeptly changed into fluxes of charged or neutral particles. The conservative phenomena of non-linear optics like harmonic generation, self-focusing, ionization, etc. exhibit widely contrasting reliance on laser pulse intensity in contrast to the established rules. This branch of research is developing at a rapid pace. The book imparts knowledge on the latest progress and testified results acquired by writers in some selected areas of this widespread domain of science. This book will provide information to readers who specialize in the subject of laser matter interactions.

Optics

Rodney Lappin

ISBN: 978-1-63240-404-6
$119.95 US
2015
Book Size: 6”x9”
299pp./Colored
Hardback

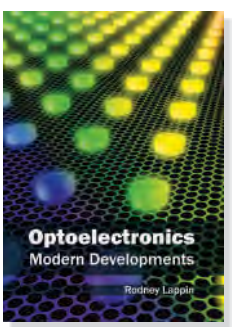
Optoelectronics Handbook

Optoelectronics is intertwined with photonics. The book focuses on the study and function of electronic tools that release, identify and control light. As a field of study, it has flourished internationally and enabled many of the currently used conveniences. Because of this universality, novel functions and optical phenomena have led to further modernization. This book covers current achievements by experts around the world. A lot of developed and developing nations have contributed to this attempt. Chapters in this book are written by prominent scientists working in USA, Japan, India, as well as through the joint participation of the US and Moldova scientists. This book also describes properties and applications of optoelectronic devices employing organic and inorganic substances.

Optics

Rodney Lappin

ISBN: 978-1-63240-405-3
$94.95 US
2015
Book Size: 6”x9”
202pp./Colored
Hardback



Optoelectronics: Modern Developments

This book discusses the advanced concepts in the field of optoelectronics. Optoelectronics focuses on the study and function of electronic tools that release, identify and control light. As a field of study, it has widely flourished internationally and enabled many of the currently used conveniences. Because of this universality, novel functions and optical phenomena have led to further modernization. This book covers current achievements by experts around the world. A lot of developed and developing nations have contributed to this attempt. Chapters in this book are written by prominent scientists working in USA, Japan, India, as well as through the joint participation of the US and Moldova scientists. This book also describes the methods of production of optoelectronic devices. It also includes an analysis of operation and areas of application of such devices.

Optics

Roderick Swayne

ISBN: 978-1-63240-444-2
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback

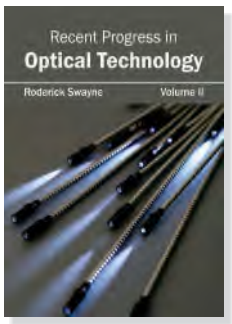
Recent Progress in Optical Technology:
Volume I

This book attempts to elucidate the multiple applications of optical technologies and how they can be integrated in our lives. The advancement in this field has led to consistent researches across the globe. Such selected researches which redefine optical technologies have been presented in this book. Researchers and students in search of information to further their knowledge of this field will be assisted by this book.

Optics

Roderick Swayne

ISBN: 978-1-63240-445-9
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback



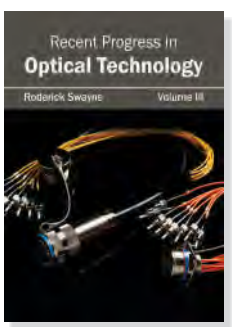
Recent Progress in Optical Technology:
Volume II

This book attempts to elucidate the multiple applications of optical technologies and how they can be integrated in our lives. The advancement in this field has led to consistent researches across the globe. Such selected researches which redefine optical technologies have been presented in this book. Researchers and students in search of information to further their knowledge of this field will be assisted by this book.

Optics

Roderick Swayne

ISBN: 978-1-63240-446-6
$149.95 US
2015
Book Size: 8.5”x11”
206pp./Colored
Hardback



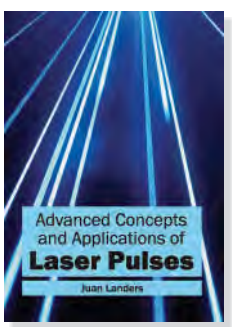
Recent Progress in Optical Technology:
Volume III

This book attempts to elucidate the multiple applications of optical technologies and how they can be integrated in our lives. The advancement in this field has led to consistent researches across the globe. Such selected researches which redefine optical technologies have been presented in this book. Researchers and students in search of information to further their knowledge of this field will be assisted by this book.

Photonics

Juan Landers

ISBN: 978-1-63240-014-7
$109.95 US
2015
Book Size: 6”x9”
241pp./Colored
Hardback



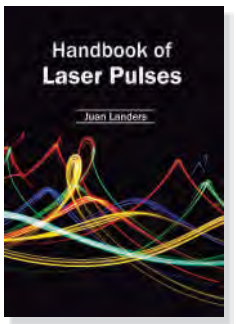
Advanced Concepts and Applications of Laser Pulses

This book, written by renowned experts from across the globe, aims to elucidate the diverse concepts of laser pulses. The book explains characteristics of laser pulse creation, classification and applications. It even illustrates accomplishments made in designs, experiments and theories. The book contains examples of laser procedures in biomedical areas, and tremendously high power systems used for substance processing and water decontamination. This book will help students, managers and engineers to understand laser technology better.

Photonics

Juan Landers

ISBN: 978-1-63240-275-2
$144.95 US
2015
Book Size: 6”x9”
328pp./Colored
Hardback



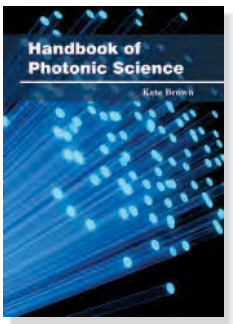
Handbook of Laser Pulses

This book aims to present the latest developments in the field of laser pulses. It explains the characteristics of laser pulse creation, classification and applications. It even illustrates some accomplishments made in designs, experiments and theories. The book deals with its physical principles and illustrates examples regarding laser operations carried out under several extreme circumstances. The topic of mode-locking, based on optical noise perception, is analyzed within the book. Furthermore, it also discusses the paradoxes of ultra-short laser pulse arrangement. This book will help students and engineers to understand laser technology better.

Photonics

Kate Brown

ISBN: 978-1-63240-002-4
$149.95 US
2015
Book Size: 6”x9”
386pp./Colored
Hardback



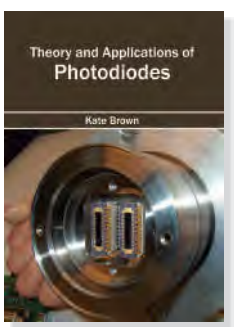
Handbook of Photonic Science

Photonics is a sphere of work that's been garnering a rapid pace and importance among academicians, scientists and experts across the globe. This amount of significance comes from its diverse applications, that's nearly universal in scientific and industrial spheres. This book includes some of the latest works in the field of photonics. With 14 chapters clearly split into multiple sections, this volume is a crucial contributor, creating a path for later developments in the technology. The chapters have been written and reviewed by well-experienced researchers in their fields. With significant contributions, the knowledge and experience is available for everyone who's a part of this field of work.

Optical Devices

Kate Brown

ISBN: 978-1-63240-492-3
$149.95 US
2015
Book Size: 6”x9”
374pp./Colored
Hardback



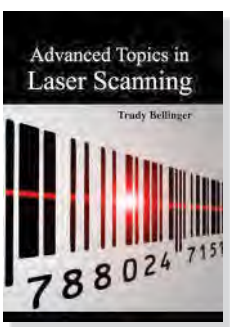
Theory and Applications of Photodiodes

A photodiode is described as a semiconductor diode which generates a potential difference or changes its electrical resistance when it is exposed to light. This book reflects current development and expansion of photodiodes, inclusive of the primary reviews and the precise applications developed by the writers themselves. The key thought behind this book is to enable authors to deal with a broad variety of background and highlight the progresses in photodiode-related areas. This book discusses new problems and connected solutions in various areas of primary physics, design and tool and circuit applications. We intend to help students, and even experts, in understanding the concept in a simpler way. This book will be a good source of reference to anyone who holds interest in optoelectronic devices.

Lasers

Trudy Bellinger

ISBN: 978-1-63240-030-7
$119.95 US
2015
Book Size: 6”x9”
270pp./Colored
Hardback



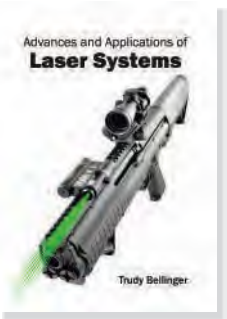
Advanced Topics in Laser Scanning

Laser scanning technology is extremely significant in the contemporary fields of engineering and science. Through scanning, a digital replica of the surface of the object is created. Sometimes, multiple scanning can be performed through numerous cameras to achieve all sides of the object under observation. Generally, optical examinations are utilized to explain the abilities of laser scanning technology in the industry and in laboratories. The various topics discussed in the book consist of traffic control, three-dimensional modeling and survey procedure, digitizing heritage monuments, among others.

Lasers

Trudy Bellinger

ISBN: 978-1-63240-043-7
$144.95 US
2015
Book Size: 6”x9”
320pp./Colored
Hardback



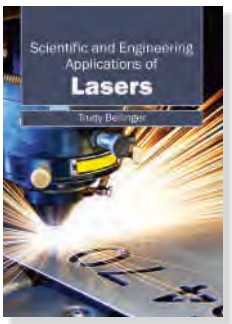
Advances and Applications of Laser Systems

This book discusses several topics associated with different laser systems intended for applications in science and numerous industries. Some of them are latest achievements in laser physics, while others face renewal in industrial applications. The book consists of information regarding various topics like laser beam manipulation, intense pulse propagation phenomena, metrology and laser and terahertz sources which are further diversified into topics like mode-locking, micro-lasers, q-switching, pulse and beam shaping technologies, enhancement methodologies, etc. It will serve as an excellent beginning point for students of laser physics and assist them through the elucidative information encompassed in this book.

Lasers

Trudy Bellinger

ISBN: 978-1-63240-458-9
$119.95 US
2015
Book Size: 6”x9”
288pp./Colored
Hardback



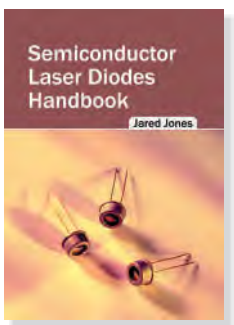
Scientific and Engineering Applications of Lasers

This book provides an extensive analysis of lasers and their applications. The book begins with a general analysis of physical phenomena on laser-matter interplay, followed by description of several laser applications in materials evaluation for industry, biological applications (in-vitro fertilization, tissue ablation), nano-particles and thin films production, and long-range detection issues by LIDARs.

Lasers

Jared Jones

ISBN: 978-1-63240-461-9
$149.95 US
2015
Book Size: 6”x9”
390pp./Colored
Hardback



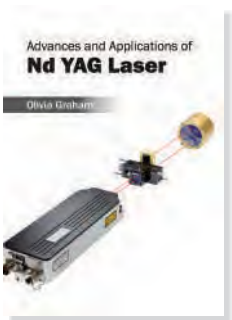
Semiconductor Laser Diodes Handbook

A descriptive account based on semiconductor laser diodes has been presented in this book. It presents recent advances and research in the fast growing field of semiconductor laser diode technology and applications. Prominent researchers and experts from all over the world have made valuable contributions in this book. The book provides detailed discussions on optimization of semiconductor laser diode parameters for extensive applications across various fields. It aims to assist physicists, scientists, engineers and technologists in their research and academic activities associated with the field of semiconductor laser diodes.

Solid State Lasers

Olivia Graham

ISBN: 978-1-63240-044-4
$144.95 US
2015
Book Size: 6”x9”
330pp./Colored
Hardback



Advances and Applications of Nd YAG Laser

This book extensively elucidates the techniques and applications of Nd:YAG laser, which has evolved ever since its discovery almost a half century ago at Bell Laboratory in 1964. This technique has been widely incorporated in medicine for therapy and drug management, research analysis and technological applications. This book covers important topics which will be of great assistance to a wide spectrum of readers; these are the new systems and components of semi-organic nonlinear crystal, and applications in material processing like welding, coating, drilling and polishing. Veteran scholars in the field have contributed to the book.

Gas Lasers

Olivia Graham

ISBN: 978-1-63240-041-3
$159.95 US
2015
Book Size: 6”x9”
448pp./Colored
Hardback

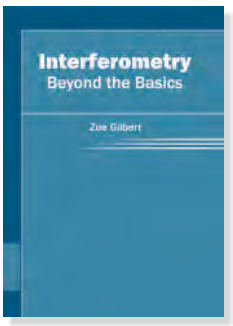
Advances and Applications of CO2 Laser

The advances as well as applications of carbon dioxide laser are elucidated in this book. It provides comprehensive information regarding fundamentals of CO2 laser operation and its upgraded new systems and technologies. Frequency equalization, lasers based on diffusion cooled V-fold geometry, laser producing ultrashort pulses etc. are some of the topics covered in the book. This book also discusses its industrial applications such as welding, cutting, engraving etc. and its clinical applications such as laser treatment, dentistry etc.

Interferometry

Zoe Gilbert

ISBN: 978-1-63240-318-6
$109.95 US
2015
Book Size: 6”x9”
230pp./Colored
Hardback



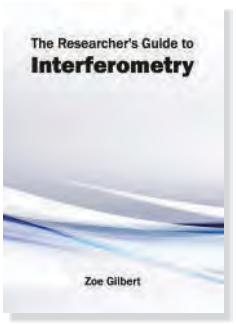
Interferometry: Beyond the Basics

The latest analyses on interferometry and its applications in science and technology are discussed in this profound book. It is a structural analysis of experimental as well as theoretical aspects of interferometry and their applications. The book covers a description of particular interferometry applications ranging from interferometry for magnetic fusion plasmas to interferometry in wireless networks. It is a valuable reference of present interferometry applications in science and technology. This book offers the chance to enhance our knowledge regarding interferometry and it also encourages researchers to develop novel applications.

Interferometry

Zoe Gilbert

ISBN: 978-1-63240-487-9
$119.95 US
2015
Book Size: 6”x9”
256pp./Colored
Hardback



The Researcher's Guide to Interferometry

The up-to-date analyses on interferometry and its applications in science and technology are discussed in this profound book. It is a structural analysis of experimental as well as theoretical aspects of interferometry and their applications. The book covers a description of distinct interferometry methodologies and their basic applications. It is a valuable reference of present interferometry applications in science and technology. This book offers the chance to enhance our knowledge regarding interferometry and it also encourages researchers to develop novel applications.

Optical Communications

Vladimir Latinovic

ISBN: 978-1-63240-023-9
$119.95 US
2015
Book Size: 6”x9”
273pp./Colored
Hardback

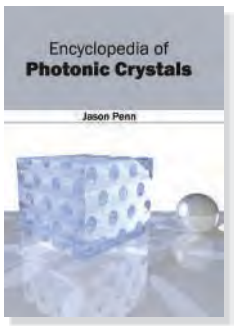
Advanced Optical Communication Systems

This book presents a descriptive account on various latest advances in the field of optical communication systems. These systems are extremely essential for all types of networks and telecommunications. This book provides updated results on communication systems, with elucidations on their relevance, provided by veteran researchers in this field. It encompasses fundamental concepts of optical and wireless optical communication systems, optical multiplexing and demultiplexing for optical communication systems, optical amplifiers and networks, and network traffic engineering. Lately, wavelength conversion and other advanced signal processing functions have also been studied in detail for optical communications systems. The book emphasizes on wavelength conversion, demultiplexing in the time domain, switching and other optimized functions for optical communications systems. It is primarily aimed at assisting in advancement and research for a wide range of readers including design engineer teams in manufacturing industry, academia and telecommunications service operators/providers.

Condensed Matter Physics

Jason Penn

ISBN: 978-1-63240-197-7
$149.95 US
2015
Book Size: 6”x9”
356pp./Colored
Hardback



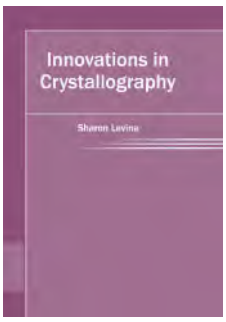
Encyclopedia of Photonic Crystals

This book comprehensively introduces photonic crystals and their applications including design and modeling characteristics. Photonic crystals are described as the periodic optical nanostructures that are designed to affect the motion of photons in a similar way that periodicity of a semiconductor crystal affects the motion of electrons. Photonic crystals are described as attractive optical materials for the purpose of manipulating and controlling the flow of light. Specifically, photonic crystals are of significant interest for basic as well as applied research, and two dimensional photonic crystals are being fast employed to commercial applications like micro electro-mechanical systems (MEMS), optical logic devices, and sensors. The first commercial products involving two-dimensionally periodic photonic crystals already exist in the form of photonic-crystal fibers, which employ a microscale structure to limit light with radically distinct features in comparison to traditional optical fiber for applications in guiding wavelengths and nonlinear devices.

Condensed Matter Physics

Sharon Levine

ISBN: 978-1-63240-310-0
$144.95 US
2015
Book Size: 6”x9”
324pp./Colored
Hardback



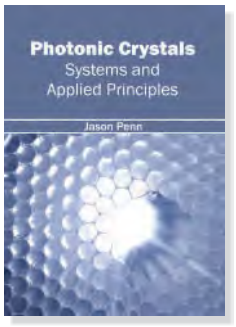
Innovations in Crystallography

This book presents latest innovations and advances in the field of crystallography. The emergence of X-ray diffraction during the earlier years of twentieth century led to the transformation of crystallography. From a field of scientific inquiry limited to mathematics, physics and mineralogy, it has evolved as a field which encompasses almost all physical, life and material sciences as well as engineering. This book is a compilation of the contributions by eminent researchers and scientists from all over the world. It provides insights into the recent studies and advances in the field of crystallography.

Condensed Matter Physics

Jason Penn

ISBN: 978-1-63240-408-4
$149.95 US
2015
Book Size: 6”x9”
363pp./Colored
Hardback



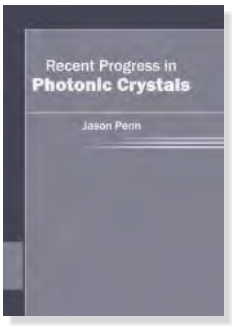
Photonic Crystals: Systems and Applied Principles

Renowned researchers from across the globe have contributed significant research inferences in this extensive book. This book introduces the concepts of innovative systems and materials to the readers. It provides comprehensive information regarding characterization approach of photonic crystal waveguides, photonic crystal lasers as well as plasmonics. There is an in-depth account on lasers from microscopic cavities in photonic crystals acting as reflectors for intensifying the collisions between photons and atoms. This leads to lazing, but these lasers are optically-pumped, meaning that these lasers are themselves driven by other lasers. Furthermore, the physical principles behind the phenomenon of slow light in photonic crystal waveguides, as well as their practical limitations, have also been elucidated. The nature of slow light propagation, its bandwidth restraint, coupling of modes and specific kind terminating photonic crystals with metal surfaces enabling propagation in surface plasmon-polariton waves have also been described.

Condensed Matter Physics

Jason Penn

ISBN: 978-1-63240-447-3
$144.95 US
2015
Book Size: 6”x9”
346pp./Colored
Hardback



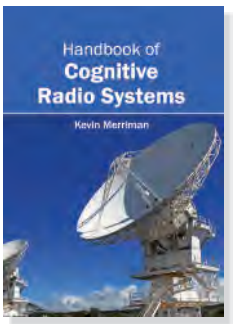
Recent Progress in Photonic Crystals

This book is a comprehensive study of various aspects related to photonic crystals. It is a compilation of data on diverse theoretical and experimental features of photonic crystals for nanophotonic functions. It deals with various numerical methodologies for the study and design of photonic crystal tools, such as 2D ring resonators for filters, solo and attached nanobeam cavities, birefringence in photonic crystal cavities, threshold study in photonic crystal lasers, vibrant features of photonic crystal filters, among others. The book also discusses numerous features of photonic crystals production and applicable functions, such as nitrogen fault technology in diamond, silicon nitride free standing membranes, photonic crystals arrangements in silicon, photonic crystals for visual sensing, etc. Overall, this book intends to present some useful information for students and experts interested in photonic crystals.

Radio Technology

Kevin Merriman

ISBN: 978-1-63240-259-2
$144.95 US
2015
Book Size: 6”x9”
310pp./Colored
Hardback



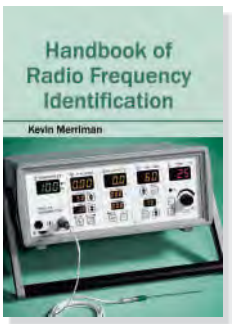
Handbook of Cognitive Radio Systems

The book primarily focuses on cognitive radio systems. Considerable demands for new wireless services in the licensed and unlicensed frequency spectra have been observed due to the rapid growth of wireless communications sector. As many spectra remain under-utilized, so cognitive radio as a spectrum reuse method can be used in an efficient way for significant growth of communications resources. Cognitive radio has been widely popular in the field of academics and industry ever since it was first introduced in the later stages of last century. The main drawback is that its practical use has still not been successfully utilized. This book tries to describe some of the known problems in the field. The book has been written by intellectuals from around the world which includes subjects such as spectrum sensing fundamentals, cooperative sensing, spectrum management and interaction among users.

Radio Technology

Kevin Merriman

ISBN: 978-1-63240-286-8
$119.95 US
2015
Book Size: 6”x9”
250pp./Colored
Hardback



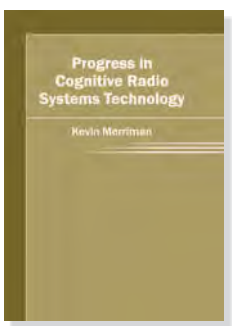
Handbook of Radio Frequency Identification

Radio Frequency Identification (RFID) is an emerging data sharing technology. This book elucidates issues related to various aspects of RFID technology, its applications and architectural patterns. RFID based functions create incredible new business opportunities such as the support of autonomous living of aged and disabled persons, resourceful supply chains, and well-organized anti-counterfeiting and improved ecological monitoring. Its data administration, scalable information systems, business procedure reengineering and evaluating reserves are emerging as important technological challenges to applications underpinned by new advancements in RFID technology. It presents researches from prominent professionals on the newest developments in the RFID field.

Radio Technology

Kevin Merriman

ISBN: 978-1-63240-422-0
$94.95 US
2015
Book Size: 6”x9”
161pp./Colored
Hardback



Progress in Cognitive Radio Systems Technology

This is a profound book which discusses the latest developments in the field of cognitive radio systems. It encompasses a broad spectrum of topics including information regarding cognitive media access control, wideband voltage controlled oscillators, measurement and statistics of spectrum occupancy, etc. The aim of this book is to provide state-of-the-art information regarding the advancements in cognitive radio systems. It will appeal to a great range of readers including researchers, scientists and students.

Radio Technology

Kevin Merriman

ISBN: 978-1-63240-435-0
$109.95 US
2015
Book Size: 6”x9”
216pp./Colored
Hardback

Radio Frequency Identification

Radio Frequency Identification is a dynamic field with multiple applications. This book includes a comprehensive overview of the techniques of Radio Frequency Identification (RFID) and its applications. RFID based functions create incredible new business opportunities such as the support of autonomous living of aged and disabled persons, resourceful supply chains, and well-organized anti-counterfeiting and improved ecological monitoring. Its data administration, scalable information systems, business procedure reengineering and evaluating reserves are emerging as important technological challenges to applications underpinned by new advancements in RFID technology. It compiles researches from renowned experts on the recent advancements in the RFID field.

Radio Technology

Kevin Merriman

ISBN: 978-1-63240-504-3
$109.95 US
2015
Book Size: 6”x9”
243pp./Colored
Hardback

Ultra-Wideband Radio Technologies

This book provides an in-depth analysis of the technology and applications of Ultra-Wideband Radio (UWB). It includes an analysis of the applications of UWB technologies in various fields. Ultra-Wideband Radio, referred to as UWB, is a characteristic of a new radio access philosophy and utilizes several GHz of bandwidth. It promises increased data rate communication over small distances, as well as modern radar sensing and localization applications with extraordinary resolution. Fields of function may be found in industry, civil engineering, observation and examination for security and safety measures, and even for medicine. The book compiles researches conducted by prominent experts and will be useful for readers interested in this subject.

Radio Technology

Kevin Merriman

ISBN: 978-1-63240-505-0
$119.95 US
2015
Book Size: 6”x9”
268pp./Colored
Hardback

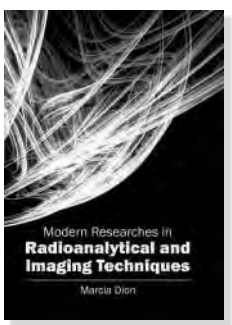
Ultra-Wideband Radio Technologies: Advanced Concepts and Applications

Ultra-Wideband Radio has both traditional and nascent applications. Ultra-Wideband Radio, referred to as UWB, is a characteristic of a new radio access philosophy and utilizes several GHz of bandwidth. It promises increased data rate communication over small distances, as well as modern radar sensing and localization applications with extraordinary resolution. This book analyzes algorithms, hardware and application hassles in this field of radio technology for interactions, localization and sensing. It includes contributions from renowned experts and will be beneficial for readers interested in this field.

Radiography

Marcia Dion

ISBN: 978-1-63240-367-4
$94.95 US
2015
Book Size: 6”x9”
202pp./Colored
Hardback



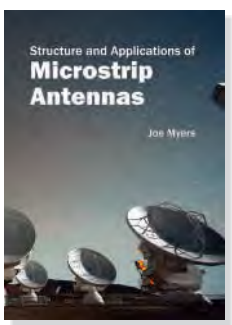
Modern Researches in Radioanalytical and Imaging Techniques

In this book, modern researches in radioanalytical and imaging techniques are primarily elucidated. It focuses on providing the readers with rich content in the field of radioanalytic methods, particularly stressing on the growth and discoveries in this rapidly developing area. The book talks about the fundamentals and use of these methods in a vast range of science, technology and medicines, where radioanalytic modes are expected to bring considerable changes. The book also provides an outlook on the background of this area, its recent developments and the future outcomes. This text basically highlights novel applications and related tools and schemes, such as instrumentation systems and computing hardware/software. This book mainly focuses on learners, discoverers, analysts and workers who show a great interest in medical and ground penetrating radar (GPR) imaging, and radio-analytical schemes.

Microwave Technology

Joe Myers

ISBN: 978-1-63240-472-5
$149.95 US
2015
Book Size: 6”x9”
388pp./Colored
Hardback



Structure and Applications of Microstrip Antennas

The structure and applications of microstrip antennas are explained in this profound book. This book presents fundamental and enhanced theories of microstrip antennas comprising of design process and current functions. It discusses arrays, spectral domain, high Tc superconducting microstrip antennas, optimization, multiband, double and spherical polarization, microstrip to waveguide transitions and developing bandwidth and quality occurrence. Antenna fusion substance, microstrip circuits, spectral domain and efficiency are another few additional topics covered in this book. Planar UWB antennas have been extensively discussed. Plan of UWB antennas with solitary or multi notch bands has also been measured. This book intends to guide students and experts as well as those interested in dealing with microstrip antennas.

Measurement

Sasha Kremke

ISBN: 978-1-63240-236-3
$149.95 US
2015
Book Size: 6”x9”
398pp./Colored
Hardback

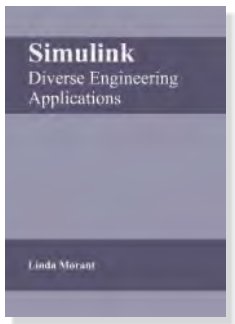
Features, Challenges and Applications of Particle Image Velocimetry

The various features, challenges as well as applications of particle image velocimetry are highlighted in this profound book. Particle image velocimetry is a significant technique in fluid dynamics as it allows a direct and immediate visualization of the flow field in a non-intrusive manner. This technique is utilized in various research areas such as aerodynamics, medicine, biology, turbulence researches and combustion procedures. The objective of the book is to provide an introduction to the PIV technique and its vast range of possible applications so as to provide a reference for researchers who want to utilize this technique in their respective research areas. This book also discusses various facets and possible difficulties in the evaluation of large and micro-scale turbulent circumstances, combustion procedures and turbo-machinery flow fields, internal waves and river or ocean flows.

Mathematical Modeling

Linda Morant

ISBN: 978-1-63240-467-1
$119.95 US
2015
Book Size: 6”x9”
268pp./Colored
Hardback



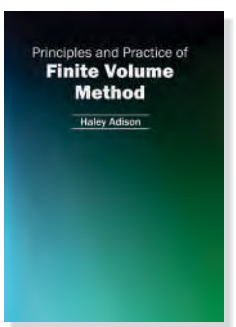
Simulink: Diverse Engineering Applications

Simulink is a multi-purpose programming language tool. An extensive elaboration of Simulink concepts and their applications have been examined in the book. The book presents a platform for experts to plan, model, design, suggest, check and execute difficult electro-mechanical, active control, signal processing and communication systems via Simulink. Simulink-Matlab amalgamation is very helpful for improving and developing algorithms. Several chapters of this book show the influence and theories of Simulink to solve engineering issues.

Numerical Differential Equations

Haley Adison

ISBN: 978-1-63240-417-6
$149.95 US
2015
Book Size: 6”x9”
384pp./Colored
Hardback



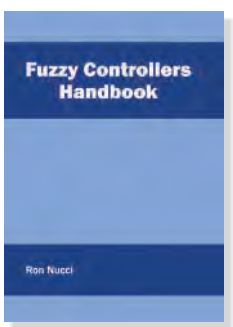
Principles and Practice of Finite Volume Method

The principles and practice of finite volume method are highlighted in this book. In this book, readers will find a subject which will increase their interest and involve them to further explore a challenge and work further on the presented solutions. This book can serve the purposes of both; a textbook and a practical guide. It presents a vast variety of ideas in FVM which is a result of the efforts of scientists from across the world. The major topics covered in this book are novel techniques and algorithms in FVM, solution of particular problems through FVM and application of FVM in medicine and engineering. This book is for anyone who wants to grow, improve and explore.

Fuzzy Logic

Ron Nucci

ISBN: 978-1-63240-244-8
$144.95 US
2015
Book Size: 6”x9”
346pp./Colored
Hardback



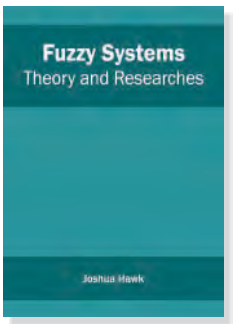
Fuzzy Controllers Handbook

This book is a compilation of various research outcomes on diverse applications of fuzzy control systems. At the center of numerous engineering challenges is the question of controlling different systems. The theory of fuzzy control has been a subject of central attention in ongoing research. The wide spectrum of these structures includes a variety of systems varying from the inverted pendulum to auto-focusing system of a digital camera. Fuzzy control systems have displayed improved output in many areas. Advances in this sphere have been rapid, giving rise to the need for literature that documents all the recent advances both in theory and in applications. With an aim of serving the same purpose, this book covers fuzzy logic controllers in electric railways systems, non-linear systems, in linear motor drive, application in wheelchair, etc. It will provide the readers with a clear picture of current status of research in this field. It will be a good source of reference for researchers, engineers, and postgraduate students specializing in associated fields of fuzzy control systems.

Fuzzy Logic

Joshua Hawk

ISBN: 978-1-63240-245-5
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback



Fuzzy Systems: Theory and Researches

The scope of Fuzzy Systems is now being expanded as it is now being incorporated in different scientific researches. This book contains researches concerning the theory and applications of fuzzy subsets and systems. This book on fuzzy systems is a collective contribution of a highly advanced group of international authors. Different approaches, evaluations, methodologies and advanced studies on fuzzy systems have been included in this book. The numerous applications of fuzzy systems in different areas of science such as medical science and environmental science have also been included in this book.

Fuzzy Logic

Ron Nucci

ISBN: 978-1-63240-378-0
$109.95 US
2015
Book Size: 6”x9”
256pp./Colored
Hardback

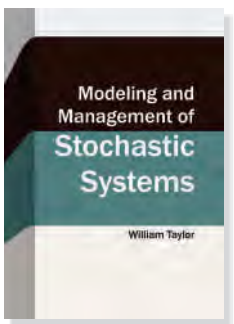
New Frontiers in Fuzzy Controllers

Advances in the sphere of fuzzy controllers have been rapid, giving rise to the need for literature that documents all the recent advances both in theory and in applications. This book has been published with an aim of serving the same purpose. It is a compilation of various research outcomes on diverse applications of fuzzy control systems. At the center of numerous engineering challenges is the question of controlling different systems. The wide spectrum of these structures includes a variety of systems varying from the inverted pendulum to auto-focusing system of a digital camera. Fuzzy control systems have displayed their improved output in all these areas. This book examines new areas of fuzzy applications such as a two-layered control system, cycle-to-cycle fuzzy logic control etc. It will be a good source of reference for researchers, engineers, and post-graduate students specializing in associated fields of fuzzy control systems.

Stochastic Processes

William Taylor

ISBN: 978-1-63240-354-4
$119.95 US
2015
Book Size: 6”x9”
284pp./Colored
Hardback



Modeling and Management of Stochastic Systems

Stochastic control deals with the uncertainties in data observation playing a crucial role in data evolution. Stochastic control plays a crucial role in a number of scientific and applied disciplines including engineering, finance, communications and medicine. Stochastic modeling is one of the most useful techniques for formulation of optimal decision-making strategies in applications. This book provides a compilation of exceptional investigations in different aspects of stochastic systems and their behavior. It presents a distinct analysis on practical aspects of calculus and stochastic modeling including applications derived from computer science, engineering and statistics. This book will be of great utility to readers with knowledge about stochastic calculus and basic probability theory. It will specifically serve as a useful resource for PhD students and researchers in stochastic control.

Modeling and Simulation

Tommy Haynes

ISBN: 978-1-63240-212-7
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback

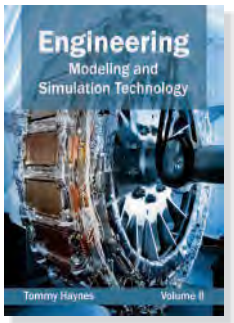
Engineering: Modeling and Simulation Technology
Volume I

Modeling and simulation has emerged as an independent field of study in recent times. There has been rapid advancement in this field and its applications are finding their way across multiple industries. This book attempts to understand the current researches that fall under modeling and simulation in engineering and how such ongoing research can affect our lives. The various projects that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here. Researchers and students in search of information to further their knowledge of this field will be greatly assisted by this book.

Modeling and Simulation

Tommy Haynes

ISBN: 978-1-63240-213-4
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback



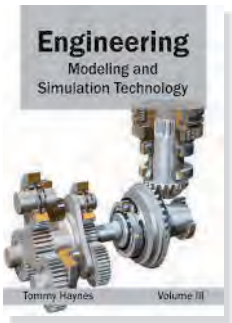
Engineering: Modeling and Simulation Technology
Volume II

Modeling and simulation has emerged as an independent field of study in recent times. There has been rapid advancement in this field and its applications are finding their way across multiple industries. This book attempts to understand the current researches that fall under modeling and simulation in engineering and how such ongoing research can affect our lives. The various projects that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here. Researchers and students in search of information to further their knowledge of this field will be greatly assisted by this book.

Modeling and Simulation

Tommy Haynes

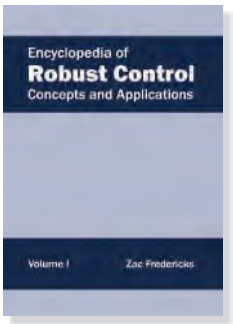
ISBN: 978-1-63240-214-1
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback



Engineering: Modeling and Simulation Technology
Volume III

Modeling and simulation has emerged as an independent field of study in recent times. There has been rapid advancement in this field and its applications are finding their way across multiple industries. This book attempts to understand the current researches that fall under modeling and simulation in engineering and how such ongoing research can affect our lives. The various projects that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here. Researchers and students in search of information to further their knowledge of this field will be greatly assisted by this book.

Control Theory



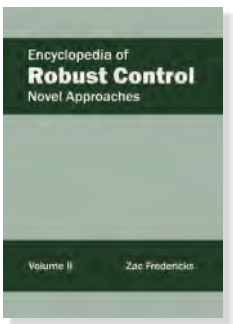
Zac Fredericks

ISBN: 978-1-63240-200-4
$159.95 US
Year 2015
Book Size: 6”x9”
410pp./Colored
Hardback

Volume I

Encyclopedia of Robust Control:
Concepts and Applications

This book gives a broad overview of robust control by providing theoretical advances with the help of selected applications. Robust control has been a topic of extensive research in the last three decades culminating in H_2/H_\infty and \mu design methods followed by studies on parametric robustness, earlier motivated by Kharitonov's theorem, the extension to non-linear time delay systems, and other recent methods. This book includes contributions of experts in this field from all over the world. While, discussing different theoretical aspects and application areas, it also examines problems in robust control theory and its functioning in electromechanical and robotic systems. It also includes topics on robust control and problem specific solutions. This book serves as a complete guide for researchers, students and other interested individuals in the field of robotics and mechatronics.



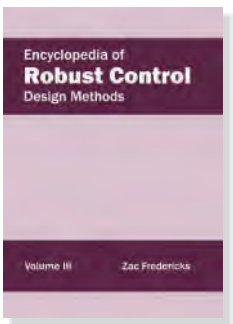
Zac Fredericks

ISBN: 978-1-63240-201-1
$119.95 US
Year 2015
Book Size: 6”x9”
282pp./Colored
Hardback

Volume II

Encyclopedia of Robust Control:
Novel Approaches

Substantial information regarding the novel approaches in the field of robust control has been illustrated in this book. Robust control has been a topic of extensive research in the last three decades resulting in H_2/H_\infty and \mu design methods followed by studies on parametric robustness, earlier motivated by Kharitonov's theorem, the extension to non-linear time delay systems, and other recent methods. This book gives a broad overview of theoretical advances with the help of selected application examples. This book includes contributions by experts in this field from all over the world. It covers novel approaches in robust control. It also discusses problems in robust control theory and its functioning in electromechanical and robotic systems. This book serves as a complete guide for researchers, students and other interested individuals in the field of robotics and mechatronics.



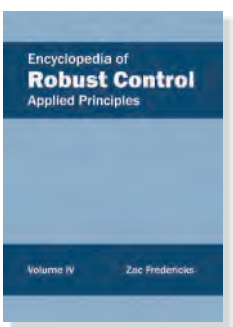
Zac Fredericks

ISBN: 978-1-63240-202-8
$94.95 US
Year 2015
Book Size: 6”x9”
203pp./Colored
Hardback

Volume III

Encyclopedia of Robust Control:
Design Methods

This book gives a broad overview of theoretical and design advances with the help of selected applications. Robust control has been a topic of extensive research in the last three decades resulting in H_2/H_\infty and \mu design methods followed by studies on parametric robustness, earlier motivated by Kharitonov's theorem, the extension to non-linear time delay systems, and other recent methods. This book includes contributions by experts in this field from all over the world. It covers special topics in robust and adaptive control. It also includes topics on robust control and problem specific solutions. This book serves as a complete guide for researchers, students and other interested individuals in the field of robotics and mechatronics.



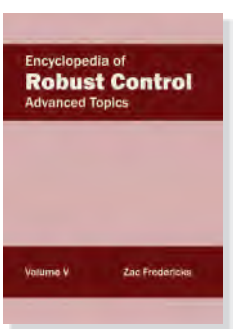
Zac Fredericks

ISBN: 978-1-63240-203-5
$109.95 US
Year 2015
Book Size: 6”x9”
243pp./Colored
Hardback

Volume IV

Encyclopedia of Robust Control:
Applied Principles

The purpose of this book is to provide some exemplary models and significant challenges faced in the domain of robust control design and applications. It comprises of research and discussion on some breakthrough applications in this domain such as sliding mode, robust PID, H-infinity, etc. These techniques have given new dimension to this genre of science and broadened the application spectra to even non-engineering systems. This book comprises of two sections, “Robust Control in Aircraft, Vehicle and Automotive Applications”, and “Control of Structures, Mechanical and Electro-Mechanical Systems”.



Zac Fredericks

ISBN: 978-1-63240-204-2
$109.95 US
Year 2015
Book Size: 6”x9”
240pp./Colored
Hardback

Volume V

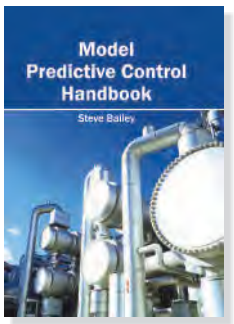
Encyclopedia of Robust Control:
Advanced Topics

This book presents an elaborative account of the advancements made in robust control system. The purpose of this book is to provide exemplary models and significant challenges faced in the domain of robust control design and applications. It comprises of research and discussion on some breakthrough applications in this domain such as sliding mode, robust PID, H-infinity, etc. These techniques have given new dimension to this genre of science and broadened the application spectra to even non-engineering systems. The book comprises of research chapters grouped under three sections; namely, “Distillation and Food Industry Applications”, “Power Plant and Power System Control” and “New Trends in Robust Control Applications”.

Control Theory

Steve Bailey

ISBN: 978-1-63240-353-7
$94.95 US
2015
Book Size: 6”x9”
168pp./Colored
Hardback



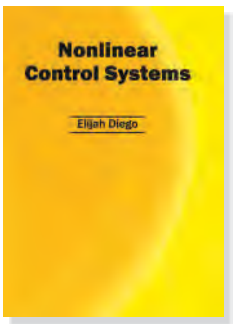
Model Predictive Control Handbook

This book provides elucidative information regarding Model Predictive Control (MPC). Model predictive control is that part of control algorithms in which a progressive method structure is utilized to foretell and improve process work. Also, it can be viewed as an expression demonstrating a typical restrain scheme that replicates the human thinking capability most efficiently. Nearly 50 years after its origin, it is vastly being welcomed in lot of spheres of engineering and is proving to be very advantageous. The book focuses on the latest developments in the field of MPC, in practice and theory, and structured in a way to provide in-depth knowledge to the practitioners and discoverers who want to gain information about the perimeters of MPC research. The book deals with the limits of MPC in theory and provides enough examples to enable us to understand them. It also portrays the practical usage of MPC in recent engineering spheres. As analytical and structural technology is growing rapidly, MPC will remain at the forefront even in the future.

Control Theory

Elijah Diego

ISBN: 978-1-63240-388-9
$109.95 US
2015
Book Size: 6”x9”
214pp./Colored
Hardback



Nonlinear Control Systems

This book presents an overview on the various aspects of Nonlinear Control Systems. A trend of examining Nonlinear Control Systems has been observed over the past few years. Consequently, methods for its analysis and design have improved rapidly. This book illustrates nonlinear designs like Feedback Linearization, Lyapunov Based Control, Adaptive Control, Optimal Control and Robust Control and discusses various applications which are independent of each other. The book offers information on modern control techniques and consequences which involve diverse application areas. It attempts to explain applications of these techniques to real-world systems through both simulations and experimental settings.

Communications & Security

Michelle Vine

ISBN: 978-1-63240-133-5
$149.95 US
2015
Book Size: 8.5”x11”
196pp./Colored
Hardback

Data Communications and Networking:
Volume I

The ideas of communication and networking are not something that is entirely new. They both have a fascinating history that makes their future even more enticing. The concepts of communication along with communication models as well as networking concepts and methods are explained and discussed here to help the readers understand the scope of this field. The goal towards which all the discussions in this book point is - What is the future of Communications and Networking?

Communications & Security

Michelle Vine

ISBN: 978-1-63240-134-2
$149.95 US
2015
Book Size: 8.5”x11”
196pp./Colored
Hardback

Data Communications and Networking:
Volume II

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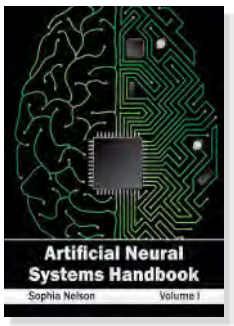
Artificial Intelligence

Sophia Nelson

ISBN: 978-1-63240-070-3
$149.95 US
2015
Book Size: 8.5”x11”
217pp./Colored
Hardback



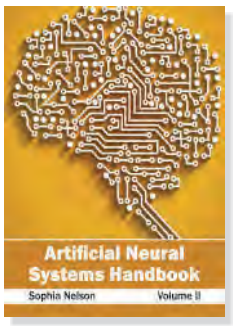
Artificial Neural Systems Handbook: Volume I

This book attempts to understand the intricacies of artificial neural systems and how they are relevant in our lives. The various projects that are constantly contributing towards advancing technologies and the evolution of this field are looked at in detail. The innovative concepts from across the globe in this field are glanced at and discussed. Those in search of information to further their knowledge of this field will be significantly assisted by this book.

Artificial Intelligence

Sophia Nelson

ISBN: 978-1-63240-071-0
$149.95 US
2015
Book Size: 8.5”x11”
199pp./Colored
Hardback



Artificial Neural Systems Handbook: Volume II

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Artificial Intelligence

Jared Kroff

ISBN: 978-1-63240-141-0
$109.95 US
2015
Book Size: 6”x9”
244pp./Colored
Hardback

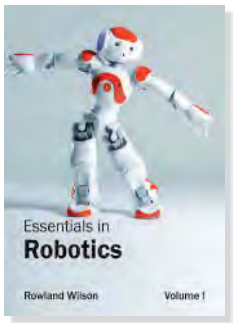
Developments in Mobile Robotics

Numerous researches are being conducted in the field of robotics and mobile robots have always formed an essential part of such researches. Mobile robotics is a growing integrative field associated with several other fields like mechanical, electronic and electrical engineering, cognitive, social and computer sciences. It is associated with computational vision, robotics and artificial intelligence because of being involved in the design of automated systems. Mobile robotics is gradually becoming a stimulating area because of the efforts of various researchers. This book covers numerous topics by integrating contributions from many researchers around the globe. It lays stress on the computational techniques of programming mobile robots. It explores different aspects of theory and practice of robotics and consists of two sections: “Visual Perception, Mapping, Robot Localization, and Obstacle Avoidance” and “Path Planning and Motion Planning”. It aims to serve as a guide to students and researchers studying mobile robots.

Artificial Intelligence

Rowland Wilson

ISBN: 978-1-63240-229-5
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback



Essentials in Robotics: Volume I

This book of robotic science discusses topics through researches and case studies from numerous scientists, researchers and engineers from across the globe. It describes the computational techniques for a robot’s programming and also provides a wide approach about hardware construction. This book is assembled in such a manner, that it will provide in-depth knowledge about the theory and practices of robotics. Topics covered in this book include applications of robotics to different fields of science such as in space engineering, medical sciences, nuclear science, and computer engineering.

Artificial Intelligence

Rowland Wilson

ISBN: 978-1-63240-230-1
$149.95 US
2015
Book Size: 8.5”x11”
209pp./Colored
Hardback

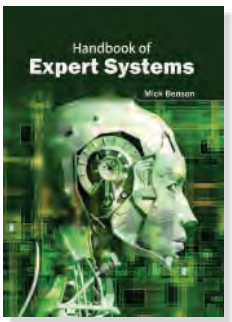
Essentials in Robotics: Volume II

This book of robotic science discusses topics through researches and case studies from numerous scientists, researchers and engineers from across the globe. It describes the computational techniques for a robot’s programming and also provides a wide approach about hardware construction. This book is assembled in such a manner, that it will provide in-depth knowledge about the theory and practices of robotics. Topics covered in this book include applications of robotics to different fields of science such as in space engineering, medical sciences, nuclear science, and computer engineering.

Artificial Intelligence

Mick Benson

ISBN: 978-1-63240-271-4
$79.95 US
2015
Book Size: 6”x9”
128pp./Colored
Hardback



Handbook of Expert Systems

The aim of this book is to educate the readers regarding expert systems. Intelligent systems aka expert systems fulfill the purpose of their name in the way that they act as facilitators in this procedure. These are systems that are based on specialist information on any topic in order to emulate human capability in the exact field. To attain this information, the knowledge experts, also called software engineers, require expanding of methodologies for intelligent systems. In this field there is still no unified methodology that supplies efficient techniques and tools to facilitate any new advancement.

Artificial Intelligence

Paula Sutton

ISBN: 978-1-63240-300-1
$144.95 US
2015
Book Size: 6”x9”
312pp./Colored
Hardback

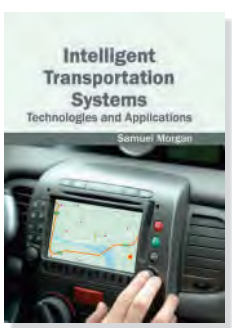
Humanoid Robots: Applied Principles and Research

Advanced engineering and scientific research results and growth in the area of humanoid robotics as well as its applications have all been elucidated in this book. Humanoids are believed to transform the way we communicate with machines and possess the ability to blend smoothly into an environment already designed for humans. The information provided in this book aims at discovering the future abilities of humanoid robots by evaluating a variety of integrated research in distinct engineering and scientific areas like perception, human-robot interaction, locomotion, machine learning, adaptive behavior and neuroscience. It is a practical book as it lays stress on important information for the people engaged in the fields of robotics, computational methods, artificial and cognitive science as well as other scientific fields directly or indirectly connected with the applications and advancement of future humanoid robots. The information in this book is contributed by experts holding significant research and development experience, patents as well as publications in the field of humanoid robotics.

Artificial Intelligence

Samuel Morgan

ISBN: 978-1-63240-314-8
$109.95 US
2015
Book Size: 6”x9”
217pp./Colored
Hardback



Intelligent Transportation Systems: Technologies and Applications

The technologies and applications of Intelligent Transportation Systems (ITS) are discussed in this all-inclusive book. Intelligent transportation systems have revolutionized surface transportation networks through the incorporation of advanced communications and computing technologies into the transportation infrastructure. ITS technologies have upgraded the safety and mobility of the transportation network through advanced applications such as electronic toll collection, in-vehicle navigation systems, collision avoidance systems, advanced traffic management systems and advanced traveller information systems. This book discusses various ITS technologies and applications. Authors from several countries have contributed on these different applications and management practices with the expectation that the exchange of scientific results and ideas delivered in this book will lead to enhanced understanding of this technology and its applications.

Artificial Intelligence

Jared Kroff

ISBN: 978-1-63240-351-3
$159.95 US
2015
Book Size: 6”x9”
404pp./Colored
Hardback

Mobile Robot Systems: Advanced Designing and Development

The aim of this book is to encompass progresses of mobile robotics and associated technologies applied for multi-robot systems' design and development. Design of control system is a complicated matter, which needs the application of information technologies to integrate the robots into a sole network. Human-robot interface becomes a challenging task, particularly when we try to employ smart methodologies for brain signal processing. Several advancements in path planning and navigations, inclusive of parallel programming, can be seen and generated. Electrophysiological signals can be utilized to control distinct devices like cars, video games, wheelchairs, etc. Training of the mobile robot operators is an extremely challenging task due to various factors associated with execution of distinct tasks. The book will appeal to a broad range of readers including veteran researchers as well as scientists.

Artificial Intelligence

Jared Kroff

ISBN: 978-1-63240-352-0
$109.95 US
2015
Book Size: 6”x9”
231pp./Colored
Hardback

Mobile Robotics

Mobile robotics is gradually becoming a stimulating area because of the efforts of various researchers. As numerous researches are being conducted in the field of robotics; and mobile robots have always formed an essential part of such researches. Mobile robotics is a growing integrative field associated with several other fields like mechanical, electronic and electrical engineering, cognitive, social and computer sciences. It is associated with the computational vision, robotics and artificial intelligence because of being involved in the design of automated systems. This book covers numerous topics by integrating contributions from many researchers around the globe. It lays stress on the computational techniques of programming mobile robots. It consists of two sections: “Mobile Robots Navigation” and “Methods for Control”. It aims to serve as a guide to students and researchers studying mobile robotics.

Artificial Intelligence

Jared Kroff

ISBN: 978-1-63240-366-7
$159.95 US
2015
Book Size: 6”x9”
416pp./Colored
Hardback

Modern Perspectives of Mobile Robot Systems

This book is a compilation of extensive information regarding the field of mobile robots. It elucidates broad topics like the significance of robots for educational purposes, hardware composition, healthcare and medical robots, and localization as well as navigation. It also provides elaborative information regarding independent mobile robot Emmy III and KCLBOT. The book also discusses walking support robots, leg-wheel mechanism as a mobile platform, control system for wheelchairs, I2C bus system, and quadruped robots and more topics like omnidirectional mobile robots, planetary wheeled and ball-wheel mobile robots, etc.

Artificial Intelligence

Jared Kroff

ISBN: 978-1-63240-454-1
$159.95 US
2015
Book Size: 6”x9”
424pp./Colored
Hardback

Robotics: Application, Control Strategies and Coding
Volume I

This book provides current researches in robot applications, control and modeling. The first section highlights robotic surgery, self-assembly, rehabilitation, whereas the second section gives an insight into the area of control with debates on exoskeleton control and an inverse dynamic analysis of a joint parallel robot among others. The advancements of these novel techniques have given a strong stimulus to the developments achieved in the field of robotics.

Artificial Intelligence

Jared Kroff

ISBN: 978-1-63240-455-8
$109.95 US
2015
Book Size: 6”x9”
230pp./Colored
Hardback

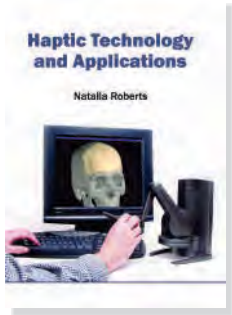
Robotics: Application, Control Strategies and Coding
Volume II

This book combines recent researches in robot sensors and algorithms. It has been organized under two broad sections namely, “Vision and Sensors” and “Programming and Algorithms” focusing on ultrasonic-sensors, programming of intelligent robots and systems adaptations. The advancements of these novel techniques have given a strong stimulus in the field of robotics.

Haptic Technology

Natalia Roberts

ISBN: 978-1-63240-296-7
$109.95 US
2015
Book Size: 6”x9”
240pp./Colored
Hardback



Haptic Technology and Applications

There has been significant advancement in haptic methods and technologies but the inclusion of haptics into virtual surroundings is still in its initiation stage. If we could learn to capture, maneuver and propagate haptic sensory stimulus that is nearly identical to reality, then it would lead to indefinite changes in a wide range of modern society's human activities and interests including communication, education, art, entertainment, commerce and science. For further progress of this field, there is a need to overcome several commercial and technological barriers. Due to continuous advancement in haptic technology and the increasing areas of research and development of haptics-related algorithms, protocols and devices, there is a belief that haptics technology has a promising and bright future. This book attempts to give a comprehensive account of haptic technology and applications.

Display Technology

Jarvis Stern

ISBN: 978-1-63240-284-4
$109.95 US
2015
Book Size: 6”x9”
244pp./Colored
Hardback

Handbook of Organic Light Emitting Devices

This book discusses modern developments in the field of organic electroluminescence, with contributions from several researchers with internationally established expertise in the field. Novel developments give way to flexible, low-cost fabrication techniques for light-emitting materials, primarily in display technologies. The book includes unique contributions on the synthesis of appropriate organic materials, fabrication of natural light emitting devices and natural white light emitting devices, classification of these devices, and a few designs for most favorable performance. The cost effective chemical technology offers many exciting possibilities for organic solar cells (OSCs) and OLEDs to be futuristic solutions for lighting and power generation. An ordinary flexible substrate can be used to produce OLEDs on one surface in front of a room and OSCs on the other surface in front of the sun. Thus, such a device can be used to generate power in the day, and light rooms in the night time. This book discusses all such aspects of such OLEDs, WOLEDs and OSCs as well.

Assistive Technology

Oscar Pole

ISBN: 978-1-63240-440-4
$109.95 US
2015
Book Size: 6”x9”
246pp./Colored
Hardback

Recent Advances in Assistive Technology

Assistive technology has been a relatively latent issue of discussion but holds great significance in providing independence to disabled people. This book compiles researches conducted by various experts from around the world. It presents latest developments within the field of assistive technology. This book elucidates assistive technology which gives primary focus to teaching and education, and social interaction, among others. It focuses on various meticulous aspects of assistive technology and presents the current advances made in order to bridge the gap in accessing technology by disabled persons.

Data Mining

Neil Green

ISBN: 978-1-63240-127-4
$119.95 US
2015
Book Size: 6”x9”
244pp./Colored
Hardback

Current Progress in Automation

The role of Automation in the modern world according to Dr. Kongoli is firmly linked with the modern requirement for sustainable development in the 21st century. One of the fundamentals of sustainable development is "Doing More with Less" which is also one of the aims of automation by substituting human labor with the use of machines. Automation not only escalates productivity and quality but also saves time and energy for humans to deal with the new challenges. This book covers significant topics such as automation in aviation, power system and substation automation, and signal processing in precision dimension measurement.

Data Mining

Neil Green

ISBN: 978-1-63240-460-2
$144.95 US
2015
Book Size: 6”x9”
328pp./Colored
Hardback

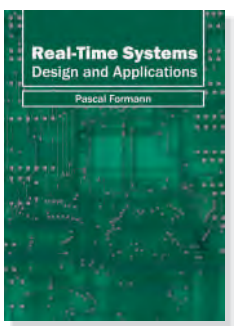
Selected Topics in Automation

According to Dr. Kongoli, Automation is firmly linked with the modern requirement for sustainable development in the 21st century. One of the fundamentals of sustainable development is "Doing More with Less" which is also one of the aims of automation by substituting human labor with the use of machines. Automation not only escalates productivity and quality but also saves time and energy for humans to deal with the new challenges. Some of the important chapters covered in this book are computer-aided control and diagnosis of distributed drive systems, graphics generator for physics research, automation in IT field, and role of automation in bioactive compounds.

Real-Time Computing

Pascal Formann

ISBN: 978-1-63240-439-8
$144.95 US
2015
Book Size: 6”x9”
346pp./Colored
Hardback



Real-Time Systems: Design and Applications

Real-time systems hold great significance in the fast paced life of today’s world. Each processing step requires time only till the degree of a tenth of a second. This book discusses diverse aspects of real-time systems including specification and verification, architecture, scheduling and real world applications. It will serve as a valuable reference for researchers and students studying various disciplines impacted by embedded computing and software. It provides an understanding of the ongoing researches and developments in the field of real-time systems and communications networks. It also provides a medium for technology transition to real-time systems technologists, designers, system analysts and architects. Real-time applications are useful in daily operations like break mechanisms in cars, traffic light, air-traffic control, blood pressure and heart beat monitoring. The book extensively discusses the aspects of real-time under various themes: real word applications, specification and verification, architecture and scheduling.

Wireless Networking

Timothy Kolaya

ISBN: 978-1-63240-056-7
$119.95 US
2015
Book Size: 6”x9”
259pp./Colored
Hardback

Advances in Wireless Mesh Networks

The latest advances in the field of wireless mesh networks have been described in this profound book. It presents an insight into current developments related to new design techniques and algorithms to enhance performance and functionality of Wireless Mesh Networks (WMNs). Information in this book has been contributed by reputed veterans in wireless mesh networking. The book highlights link scheduling schemes for selection of a subset of links for simultaneous transitions under interference restraints in an effective and appropriate manner to guarantee a specific level of network connectivity. It also elucidates channel assignment techniques for enhancement of network throughput in multi-channel multi-radio wireless mesh networks through effective channel utilization and minimization of the interference. The book addresses a few significant network planning issues regarding effective routing protocols in dynamic large-scale mesh environment, the accuracy of the mesh security architecture, attainable capacity limit of a single wireless link between two multi-interface mesh nodes and fault-tolerant mesh network topology planning.

Wireless Networking

Timothy Kolaya

ISBN: 978-1-63240-295-0
$144.95 US
2015
Book Size: 6”x9”
348pp./Colored
Hardback

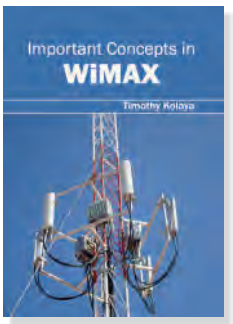
Handbook of WiMAX Technology

WiMAX is a technology standard for long-range wireless networking. This book has been compiled to showcase the novel techniques in WiMAX Technology. The target of the book is the physical layer, and it assembles the contributions of various prominent researchers from across the world. The amount of distinct works on WiMAX depicts the enormous worldwide significance of WiMAX as a wireless broadband access technology. This book is aimed for readers concerned with the transmission process under WiMAX since it includes both theoretical and technical information, which offers an in-depth review of latest advances in the field, for engineers and researchers, and other readers interested in WiMAX.

Wireless Networking

Timothy Kolaya

ISBN: 978-1-63240-302-5
$94.95 US
2015
Book Size: 6”x9”
155pp./Colored
Hardback



Important Concepts in WiMAX

WiMAX is an upcoming technology of the modern times. WiMAX Forum was founded in 2001 with the key target of enhancing broadband wireless access levels. A decade later, this technology is accessible and provides a reasonable solution for speedy IP based 4G mobile broadband, entirely supporting bandwidth-concentrated services, such as quick internet service and television, as well as fewer bandwidth-challenging, but more latency-responsive facilities, such as voice-over-IP calls. A number of features of the WiMAX application, with special focus on multi-user multiple-input-multiple-output variety methods, synchronized verification in a diverse network surrounding, etc. has been discussed in this text. This book is a compilation of data dealing with significant aspects, characteristics and functions of WiMAX as an innovative technology.

Wireless Networking

Timothy Kolaya

ISBN: 978-1-63240-385-8
$79.95 US
2015
Book Size: 6”x9”
147pp./Colored
Hardback

Next Generation Wireless LAN

This book extensively examines the next generation wireless local area networks. The past two decades have observed startling developments in wireless LAN technologies that were triggered by its expanding popularity on the home front because of ease of installation, and in commercial complexes granting wireless access to their customers. This book talks about some of the recent advancement status of wireless LAN, encompassing the topics on physical layer, MAC layer, QoS and systems. It offers an opportunity for both practitioners and researchers to examine the problems that emerge in the rapidly advancing technologies in wireless LAN.

Wireless Networking

Timothy Kolaya

ISBN: 978-1-63240-522-7
$149.95 US
2015
Book Size: 6”x9”
391pp./Colored
Hardback

WiMAX: Service Standards and Resource Allocation

A descriptive account based on the topic of WiMAX has been presented in this book along with advanced information regarding the topics of resource allocation and service standards. This book has been compiled to provide the readers with novel information on WiMAX Technology. Contributions in this book have been made by researchers from across the globe, working on resource allocation, quality of service and WiMAX applications. These various works on WiMAX reflect the huge worldwide significance of WiMAX as a wireless broadband access technology. The aim of this book is to serve as a valuable source of reference for readers concerned with resource allocation and quality of service in wireless environments, which is considered as a complicated problem. It comprises of theoretical as well as technical information, providing a comprehensive review on the most current developments in this field for researchers, engineers and general readers interested in studying about this intriguing technology of WiMAX.

Sensors

Marvin Heather

ISBN: 978-1-63240-088-8
$144.95 US
2015
Book Size: 6”x9”
319pp./Colored
Hardback

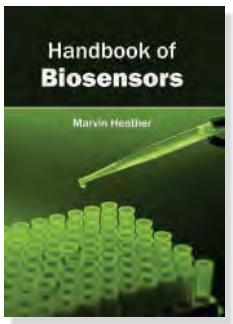
Biosensors: Prominent Applications

The prominent applications of biosensors are discussed in this state-of-the-art book. The major issue related to biosensor development is the application of biosensors for several practical tasks to maintain a steady and dependable flow of data regarding the indicators of industrial and natural processes as well as the surroundings, thus allowing optimum control and feedback. Biosensors can give important information, since the quality of life depends primarily on our knowledge about what we eat and breathe and how our bodies are able to metabolize the substances which come in our contact. This book essentially lays stress on the applications of biosensors for the purpose of monitoring the quality of food, parameters of environment and biomarkers of health.

Sensors

Marvin Heather

ISBN: 978-1-63240-256-1
$149.95 US
2015
Book Size: 6”x9”
358pp./Colored
Hardback



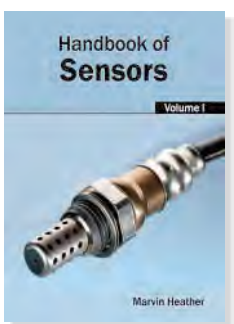
Handbook of Biosensors

Advanced information regarding biosensors has been elucidated in this comprehensive book. A rapidly advancing world needs effective methods and theories to enable designers to deal with the new product development landscape successfully and make a difference in an excessively interconnected world. Frontiers of further practice are being constantly pushed ahead as result of designers continuously extending the boundaries of their discipline and developing new ways in interdisciplinary domains. This book further develops the existing concepts and diversifies into new areas of practice and theory in industrial design. The aim of this book is to help readers formulate their own new design research which is relevant and matches the present challenges of this fascinating field.

Sensors

Marvin Heather

ISBN: 978-1-63240-290-5
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback



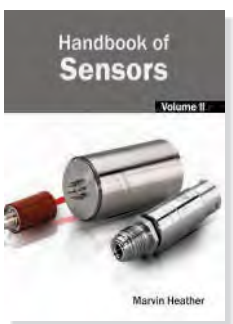
Handbook of Sensors: Volume I

This book attempts to explain and understand the researches and studies being done in this field. The various advancements in sensor technology are discussed and their applications as well as ramifications for practical life are looked at in detail. The numerous fields that are concerned with sensors and their practical usage are also glanced at. Researchers and aspirants in this discipline will find this book helpful.

Sensors

Marvin Heather

ISBN: 978-1-63240-291-2
$149.95 US
2015
Book Size: 8.5”x11”
217pp./Colored
Hardback



Handbook of Sensors: Volume II

This book attempts to explain and understand the researches and studies being done in this field. The various advancements in sensor technology are discussed and their applications as well as ramifications for practical life are looked at in detail. The numerous fields that are concerned with sensors and their practical usage are also glanced at. Researchers and aspirants in this discipline will find this book helpful.

Sensors

Marvin Heather

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$149.95 US
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216pp./Colored
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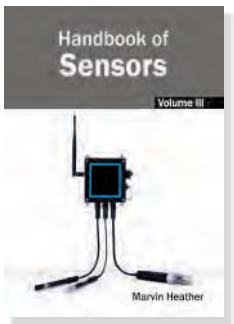

Handbook of Sensors: Volume III

This book attempts to explain and understand the researches and studies being done in this field. The various advancements in sensor technology are discussed and their applications as well as ramifications for practical life are looked at in detail. The numerous fields that are concerned with sensors and their practical usage are also glanced at. Researchers and aspirants in this discipline will find this book helpful.

Remote Sensing

Matt Weilberg

ISBN: 978-1-63240-312-4
$109.95 US
2015
Book Size: 6”x9”
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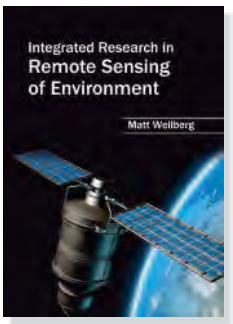
Hardback



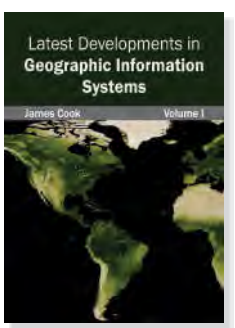
Integrated Research in Remote Sensing of Environment

Remote sensing involves extracting information about a subject without making any physical contact. This book provides a broad overview of remote sensing theory and its applications by discussing the latest advancements in this field. It is compiled with contributions from renowned researchers and experts to provide significant information about the subject and its related aspects. The main highlight of this book is the combination of various techniques such as smart sensors, satellite remote sensing, field spectroscopy and ground techniques for formulating an integrated method to keep systematic track of the environment. It aims to provide valuable information in the field of remote sensing for assisting academic and research activities.

Geographic Information Systems

James Cook

ISBN: 978-1-63240-325-4
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback



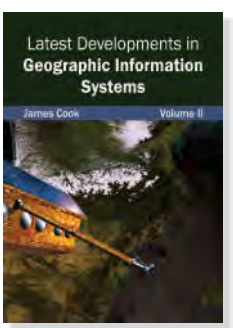
Latest Developments in Geographic Information Systems: Volume I

Geographic Information Systems have revolutionized the face of technological paradigms. It has multiple actions in every sector of industry and in organizations of any size. This book includes all the latest approaches to Geographical Information Systems from all across the world. It is a comprehensive guide for all interested students and experts alike. The book aims to bring together some of the most cutting-edge researches and help understand and develop GIS applications.

Geographic Information Systems

James Cook

ISBN: 978-1-63240-326-1
$149.95 US
2015
Book Size: 8.5”x11”
217pp./Colored
Hardback



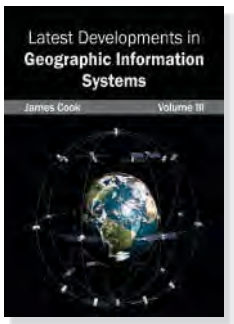
Latest Developments in Geographic Information Systems: Volume II

Geographic Information Systems have revolutionized the face of technological paradigms. It has multiple actions in every sector of industry and in organizations of any size. This book includes all the latest approaches to Geographical Information Systems from all across the world. It is a comprehensive guide for all interested students and experts alike. The book aims to bring together some of the most cutting-edge researches and help understand and develop GIS applications.

Geographic Information Systems

James Cook

ISBN: 978-1-63240-327-8
$149.95 US
2015
Book Size: 8.5”x11”
214pp./Colored
Hardback



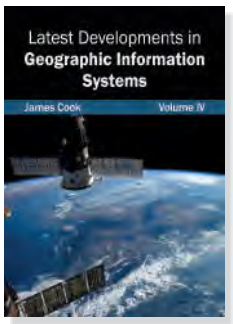
Latest Developments in Geographic Information Systems: Volume III

Geographic Information Systems have revolutionized the face of technological paradigms. It has multiple actions in every sector of industry and in organizations of any size. This book includes all the latest approaches to Geographical Information Systems from all across the world. It is a comprehensive guide for all interested students and experts alike. The book aims to bring together some of the most cutting-edge researches and help understand and develop GIS applications.

Geographic Information Systems

James Cook

ISBN: 978-1-63240-328-5
$149.95 US
2015
Book Size: 8.5”x11”
185pp./Colored
Hardback



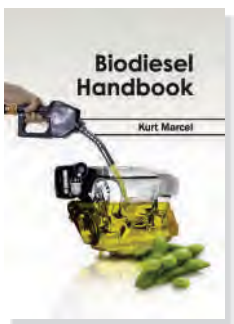
Latest Developments in Geographic Information Systems: Volume IV

Geographic Information Systems have revolutionized the face of technological paradigms. It has multiple actions in every sector of industry and in organizations of any size. This book includes all the latest approaches to Geographical Information Systems from all across the world. It is a comprehensive guide for all interested students and experts alike. The book aims to bring together some of the most cutting-edge researches and help understand and develop GIS applications.

Biofuels

Kurt Marcel

ISBN: 978-1-63240-077-2
$149.95 US
2015
Book Size: 6”x9”
394pp./Colored
Hardback



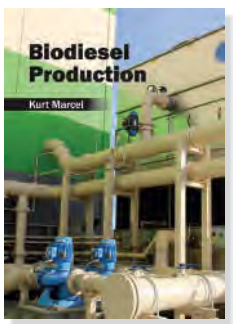
Biodiesel Handbook

This book provides a sophisticated and descriptive introduction to biodiesel. It deals with matters related to the quality of biodiesel, efficiency of combustion engines and the products that they discharge. Novel ways to define biodiesel properties are mentioned and how feedstocks, contaminants and production procedures can affect the quality of biodiesel have also been assessed. The performance of combustion engines has been assessed when fuelled with biodiesel with respect to the use of biofuel. Glycerol is one of the major byproducts of biodiesel. Its applications as raw material for biotechnological procedures and modern bio-refineries have also been discussed in this book.

Biofuels

Kurt Marcel

ISBN: 978-1-63240-078-9
$109.95 US
2015
Book Size: 6”x9”
238pp./Colored
Hardback



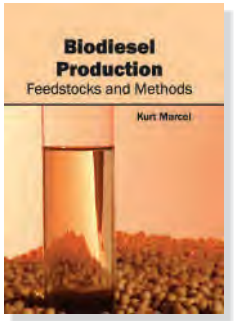
Biodiesel Production

This book highlights the latest developments and growing trends in the field of biodiesel production. The beginning few chapters, deal with feedstocks required for the production of biodiesel. It also encompasses issues related to the use of inexpensive inedible raw materials and production of biomass feedstock with properties that may help it to produce biodiesel. Waste vegetable oils, animal fats, algae etc. are some sources of oil to produce biodiesels. This book would be a rich source of information to the scientists, students and professionals who are engaged in biodiesel production.

Biofuels

Kurt Marcel

ISBN: 978-1-63240-079-6
$109.95 US
2015
Book Size: 6”x9”
244pp./Colored
Hardback



Biodiesel Production: Feedstocks and Methods

This book highlights the latest developments and growing trends in the field of biodiesel production. The chapters deal with biodiesel production methods. It also encompasses issues related to the use of inexpensive inedible raw materials and production of biomass feedstock with properties that may help it to produce biodiesel. Biodiesel is commonly produced by the transesterification process. The several methods for carrying out this technique include common batch process, supercritical processes, ultrasonic methods, and even microwave methods. This book would be a rich source of information to the students, professionals and scientists.

Biofuels

Kurt Marcel

ISBN: 978-1-63240-080-2
$109.95 US
2015
Book Size: 6”x9”
214pp./Colored
Hardback

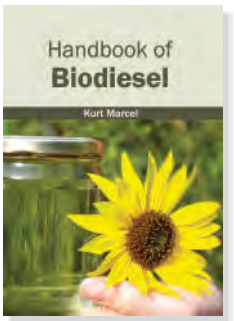
Biodiesel: Advanced Approaches and Applications

This book covers nearly every aspect of biodiesel production and its applications. All facets from the applications of the biodiesel and its by-products are described in the book. This book would appeal to the students, scientists, researchers and professionals who are involved in this genre of science.

Biofuels

Kurt Marcel

ISBN: 978-1-63240-255-4
$119.95 US
2015
Book Size: 6”x9”
288pp./Colored
Hardback



Handbook of Biodiesel

This book covers nearly every aspect of biodiesel production and its applications. All facets from the development of feedstocks and its processing mechanisms are described in the book. This book would appeal to the students, scientists, researchers and professionals who are involved in this genre of science.

Power

Jeremy Giamatti

ISBN: 978-1-63240-055-0
$94.95 US
2015
Book Size: 6”x9”
160pp./Colored
Hardback

Advances in Power Quality

The interaction between electrical power and electrical equipment is commonly known as power quality. It is an essential parameter of fitness of electricity networks. With expanding renewable energy generations and utilization of power electronics converters, it is essential to examine how these developments will have an influence on existing and future electricity networks. This book, therefore, presents readers with an update of power quality issues in all areas of the network, such as, generation, transmission, distribution and end user, and talks about some practical solutions.

Energy

Jane Urry

ISBN: 978-1-63240-052-9
$109.95 US
2015
Book Size: 6”x9”
237pp./Colored
Hardback

Advances in Oil and Gas Industry

This book discusses the latest advances in the field of oil and gas industry. Oil and gas are the most crucial non-renewable sources of energy. The tasks of producing, managing and exploring these resources in accordance with HSE standards are challenging. Therefore, it becomes important to discover and implement novel technologies, procedures and workflows. This book discusses some of these themes and presents certain enhanced technologies associated with the oil and gas industry from HSE to field management concerns. Novel technologies for digital rock physics, geo-modeling and transient well testing have also been highlighted in this all-inclusive book. The aim of this book is to serve as a great source of information for engineers, geoscientists, researchers and practitioners engaged in the petroleum industry.

Energy

Patricia Sachs

ISBN: 978-1-63240-114-4
$144.95 US
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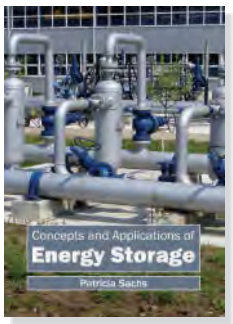
Book Size: 6”x9”
332pp./Colored
Hardback



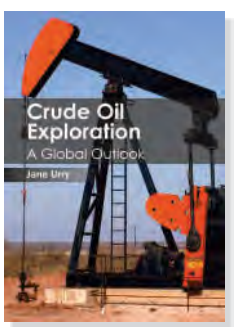
Concepts and Applications of Energy Storage

The concepts and applications of energy storage techniques have been elucidated in this comprehensive and up-to-date book. Researchers and experts have contributed valuable information in this book from across the globe. It discusses a number of energy storage systems including electrochemical energy storage, compressed air energy storage, hybrid energy storage, etc. There is also a detailed description on the future of energy storage systems. The primary aim of this book is to serve as a useful source of information for researchers, scientists as well as students interested in gaining knowledge regarding energy storage systems, their technologies as well as applications.

Energy

Jane Urry

ISBN: 978-1-63240-122-9
$109.95 US
2015
Book Size: 6”x9”
231pp./Colored
Hardback



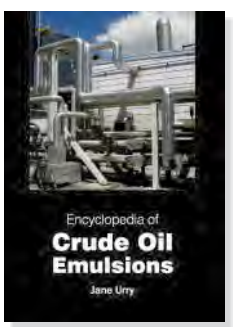
Crude Oil Exploration: A Global Outlook

In contemporary times, with rising demands oil exploration and extraction is on the highest peak. This book consists of various researches dealing with the prospects and exploration of crude oil all around the world. It also includes assessment of environmental impacts, oil spills and marketing of crude oil.

Energy

Jane Urry

ISBN: 978-1-63240-181-6
$109.95 US
2015
Book Size: 6”x9”
242pp./Colored
Hardback



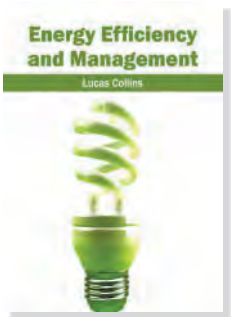
Encyclopedia of Crude Oil Emulsions

Petroleum is an intricate mixture of various phases and components. It is a nonrenewable source of energy. The organic compounds refined out of crude oil are used to produce petroleum based products which are beneficial for varied industries, be it medicines, food, or clothing. Several significant topics like chemical composition, stability, etc. are covered in this book. It includes certain measures to regulate the stability of crude oil during aging and transportation. This book targets researchers, chemical engineers and people working in the field of petroleum, since several new technologies for petroleum characterization are described in it.

Energy

Lucas Collins

ISBN: 978-1-63240-206-6
$149.95 US
2015
Book Size: 8.5”x11”
203pp./Colored
Hardback



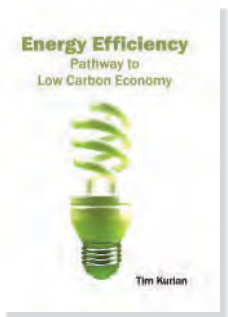
Energy Efficiency and Management

Energy is the powerhouse of modern days. It is required for carrying out even the most basic activities of our day to day life. It is crucial for our existence thus its sustenance is of primary concern. Energy efficiency is an emerging field of study and is slowly attracting various academics and researchers towards it. This book has incorporated all the recent studies in this field, in order to update the readers and acquaint them with the latest developments.

Energy

Tim Kurian

ISBN: 978-1-63240-207-3
$149.95 US
2015
Book Size: 6”x9”
356pp./Colored
Hardback



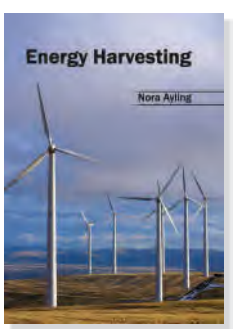
Energy Efficiency: Pathway to Low Carbon Economy

This is a comprehensive book about Energy Efficiency, describing it as a solution to Low Carbon Economy. Energy efficiency has finally attained the status of a sensible term in everyday lexicon. These days, nearly everyone knows that using energy wisely is friendly on the pocket, lessens the emissions of greenhouse gases and lowers dependency on imported fossil fuels. We are part of a fossil age which is at the helm of its capability. Competition for securing resources for fuelling financial progress is rising, prices of fuels will continue to boost while their accessibility would gradually decline. Small countries will suffer the most and the earliest if they are not equipped to defend themselves in the midst of the fight for resources with the global superpowers. A well-versed man once rightly said “The only thing more harmful than fossil fuel is fossilized thinking”. We believe that some of the information in this book will persuade readers to take a fresh look at the changeover to low carbon economy.

Energy

Nora Ayling

ISBN: 978-1-63240-209-7
$149.95 US
2015
Book Size: 6”x9”
358pp./Colored
Hardback



Energy Harvesting

The objective of this book is to provide a comprehensive overview on current research advancements in the design of efficient small scale energy harvesters through the contributions of internationally known researchers. The book covers a broad range of topics from the physics of energy conversion, the elaboration of electroactive materials and their technique, to the conception of a complete micro generator based on its input energy source. It will help readers in their research and provide them with new ideas in the vast area of energy harvesting.

Energy

Jane Urry

ISBN: 978-1-63240-215-8
$144.95 US
2015
Book Size: 6”x9”
330pp./Colored
Hardback

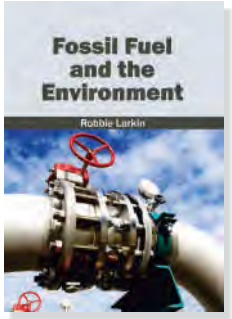
Enhanced Oil Recovery and Other Techniques for Oil Pollution Control

This book presents practical concepts of EOR procedures. It describes the basics of bioremediation of oil contaminated sites with a simplified elucidation of EOR procedures to speed up the recovery of oil or to displace and generate the considerable amounts of oil left behind in the reservoir during or post the course of any primary and secondary recovery procedures. It also illustrates the rising EOR technological trends and the fields that require research and development. The book stresses on the use of biotechnology to remediate the environmental footprint of crude oil generation; such as in the case of accidental oil spills in land, river, and marine environments. Therefore, this book will surely serve as a useful source of information providing practical insights to the readers.

Energy

Robbie Larkin

ISBN: 978-1-63240-240-0
$144.95 US
2015
Book Size: 6”x9”
316pp./Colored
Hardback



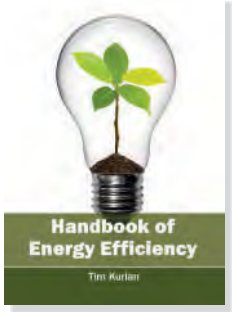
Fossil Fuel and the Environment

Information and problems related to fossil fuels and the environment are described in this all-inclusive book. Geopolitics has been continuously shaped by fossil fuel and even today, the world is facing an energy crisis. As a result, the world is witnessing a shift towards alternate, profitable methods of energy production like wind-turbines which are rapidly increasing in number in US and Europe, while solar power and bio-fuels are getting world recognition. This book encompasses topics ranging from specific ones like fuel combustion and co-existence with renewable energy to basics like environment, economics of energy and food security. The book is not an elaborative scientific work, but the research and analysis of the subject with a general view point make it a comfortable read for anyone who wants to gain insight on the subject.

Energy

Tim Kurian

ISBN: 978-1-63240-270-7
$159.95 US
2015
Book Size: 6”x9”
408pp./Colored
Hardback



Handbook of Energy Efficiency

This is a thorough well documented book on energy efficiency. It is one of the most updated and elaborative book dealing with energy efficiency. The readers will get familiarized with different technologies for energy efficiency policies and programs to reduce the amount of energy consumed. This book provides studies and specific sets of policies and programs that are implemented in order to boost the potential of energy conservation processes. It comprises of unique insights from scientists with academic and industrial expertise in the field of energy efficiency compiled in this multi-disciplinary book.

Energy

Matt Danson

ISBN: 978-1-63240-356-8
$94.95 US
2015
Book Size: 6”x9”
187pp./Colored
Hardback

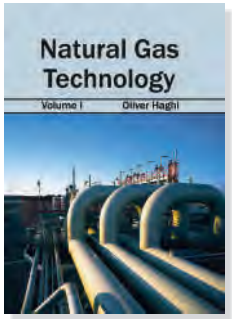
Modern Applied Principles of Thermal Power Plants

A facility for the production of electrical energy from thermal energy released by combustion of a fuel or consumption of a fissionable material is known as a Thermal Power Plant. Thermal power plants are significant process industries for engineering specialists. The power sector has been facing several crucial issues over the past few years. The primary challenge is to meet the increasing power demand in a sustainable and efficient manner. Practicing power plant engineers not only look after the maintenance and operations of the plant, but also look after a variety of activities like research and development, starting from power generation to the environmental facets of the power plants. This book discusses topics like evaluation of plant performance, combustion, energy efficiency, catalytic reduction of dissolved oxygen, environmental facets of combustion residues and renewable power generation. It also elucidates issues related to both coal fired and steam power plants. It will be helpful for undergraduate and research oriented students, and for engineers working in power plants.

Energy

Oliver Haghi

ISBN: 978-1-63240-370-4
$144.95 US
2015
Book Size: 6”x9”
312pp./Colored
Hardback



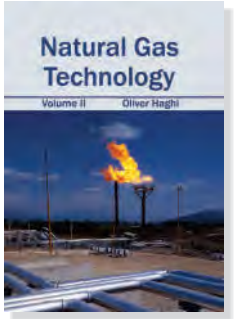
Natural Gas Technology: Volume I

Natural gas is an essential constituent of the world's reserve of energy and a crucial basis of numerous bulk chemicals and specialty chemicals. It is one of the cleanest, safest, and most beneficial of all energy sources, and facilitates in meeting the world's increasing needs for cleaner energy for the future. However, exploring, generating and bringing gas to the user or transforming gas into desired chemicals is a systematical engineering project, and every step needs thorough understanding of gas and the encircling environment. Any developments in the method link could lead to a paradigm shift in gas industry. With state-of-the-art inputs by known experts of this field, this book targets natural gas resources and production.

Energy

Oliver Haghi

ISBN: 978-1-63240-371-1
$109.95 US
2015
Book Size: 6”x9”
254pp./Colored
Hardback



Natural Gas Technology: Volume II

Natural gas is one of the cleanest, safest, and most beneficial of all energy sources, and facilitates in meeting the world's increasing needs for cleaner energy for the future. It is an essential constituent of the world's reserve of energy and a crucial basis of numerous bulk chemicals and special chemicals. However, exploring, generating and bringing gas to the user or transforming gas into desired chemicals is a systematical engineering project, and every step needs thorough understanding of gas and the encircling environment. Any developments in the method link could lead to a paradigm shift in gas industry. There have been expanding efforts in gas industry in the last few years. With state-of-the-art inputs by known experts of this field, this book targets the technology developments in natural gas industry. This book is divided into three sections which cover marketing & transportation, utilization and combustion.

Energy

Oliver Haghi

ISBN: 978-1-63240-372-8
$144.95 US
2015
Book Size: 6”x9”
316pp./Colored
Hardback

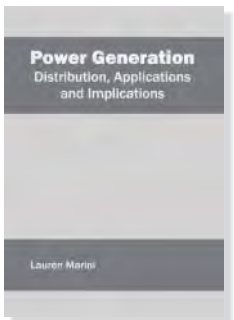
Natural Gas Technology: Volume III

This book provides an insight on the extraction and application techniques of natural gas. Natural gas has customarily been used as a fuel for space heating and as a feedstock for chemical production. The recent developments in hydraulic fracturing, exploration and drilling procedures have made natural gas available. As it replaces petroleum usage in several areas, a small amount of disruption is likely to happen. In such an unstable situation, this book presents the state-of-the-art techniques in different areas of natural gas like exploration, drilling, gas processing, storage, distribution, end use and the impact on financial markets. The book includes reviews and researches that have been contributed by leading authorities from around the world. Also, modeling approaches and current advances in some natural gas technologies have been elucidated within this book.

Energy

Lauren Marini

ISBN: 978-1-63240-413-8
$144.95 US
2015
Book Size: 6”x9”
316pp./Colored
Hardback



Power Generation: Distribution, Applications and Implications

The distribution, applications as well as implications of power generation are described in this book. The consumption of renewable energy sources such as wind energy or solar energy is currently of great interest. Nevertheless, since their availability is sporadic and unstable, this can lead to frequency variation, grid instability and total or partial loss of load power supply. This reason keeps them far from being appropriate sources to be directly connected to the main utility grid. Also, the availability of a static converter as output unit of the generating plants brings voltage and current harmonics into the electrical system which causes a negative result on system power quality. By integrating distributed power generation systems closed to the loads in the electric grid, we can get rid of the need to transfer energy over long distances through electric grid. This book discusses different power generation and distribution systems with an evaluation of some types of existing disturbances and a study of distinct industrial applications such as battery charges.

Energy

Jeremy Giamatti

ISBN: 978-1-63240-414-5
$119.95 US
2015
Book Size: 6”x9”
300pp./Colored
Hardback

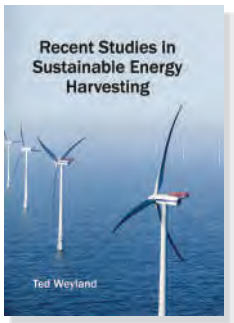
Power Quality: Concerns and Challenges

This book highlights the various challenges and complications related to the field of power quality. Power quality is a term used to widely cover the entire scope of interplay in electrical suppliers, the environment, the products and systems energized, and the users of those systems as well as products. Power Quality has been a significant issue ever since the conception of electricity, but only in the past two decades has it received its due attention. Researchers and scientists from across the globe have contributed valuable information in this extensive book. The aim of this updated book is to serve as a useful source of reference for readers including researchers, students and even scientists interested in acquiring knowledge regarding this field.

Energy

Ted Weyland

ISBN: 978-1-63240-448-0
$119.95 US
2015
Book Size: 6”x9”
267pp./Colored
Hardback



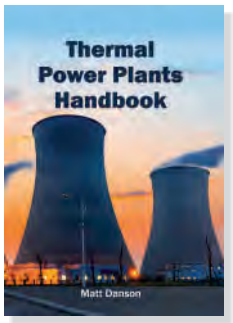
Recent Studies in Sustainable Energy Harvesting

The recent studies and analyses in the field of sustainable energy harvesting are discussed in this insightful book. Early 21st century has witnessed many developments in the field of sustainable energy harvesting technologies. Since then, many such technologies have evolved, advanced and even been successfully developed into hardware models for preserving the operational lifetime of low power electronic devices like mobile gadgets, smart wireless sensor networks, etc. Energy harvesting is a technique that harvests renewable energy which is freely and easily available from the environment to recharge or to put used energy back into the energy storage devices without the inconvenience of disturbing, or even discontinuing the routine operation of the particular application. Due to the information, experience and understanding gained in the past few years, there have been some major developments in the research of sustainable EH technology. This book looks at various features of sustainable EH technology and its future implications.

Energy

Matt Danson

ISBN: 978-1-63240-494-7
$119.95 US
2015
Book Size: 6”x9”
278pp./Colored
Hardback



Thermal Power Plants Handbook

Thermal power plants are significant process industries for engineering specialists. The power sector has been facing several crucial issues over the past few years. The primary challenge is to meet the increasing power demand in a sustainable and efficient manner. Practicing power plant engineers not only look after the maintenance and operations of the plant, but also look after a variety of activities like research and development, starting from power generation to the environmental evaluation of the power plants. This book discusses features, operational matters, advantages and limitations of power plants, as well as the benefits of renewable power generation. It also elucidates thermal performance evaluation, fuel combustion matters, performance monitoring and modeling, component fault diagnosis and prognosis, functional analysis, economics of plant operation and maintenance, and environmental facets. This book discusses numerous issues related to both coal fired and gas turbine power plants. It will be beneficial for undergraduate and research oriented students, and for engineers working in power plants.

Energy

Shawn Guy

ISBN: 978-1-63240-525-8
$119.95 US
2015
Book Size: 6”x9”
284pp./Colored
Hardback

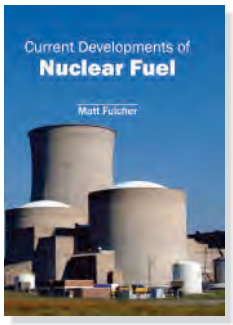
Wireless Power Transfer: Foundations, Innovations and New Probes

This book provides innovative insights into wireless power transfer. The theme of this book is engineering technology; it extensively classifies diverse classes of wireless power transfer. This book is a collection of modern studies and advancements in the field of wireless power transfer techniques. It contains several chapters that focus on topics of wireless power links, and several system issues in which systematic methodologies, numerical simulation methods, and applicable examples are evaluated.

Nuclear Technology

Matt Fulcher

ISBN: 978-1-63240-126-7
$94.95 US
2015
Book Size: 6”x9”
185pp./Colored
Hardback



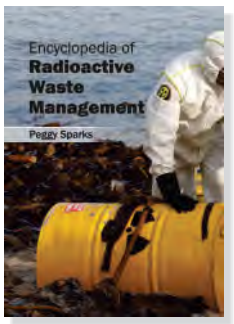
Current Developments of Nuclear Fuel

Continuous and rapid advancements in nuclear fuels present new questions, greater challenges and vast new opportunities in this field. Globally, there are more than 430 nuclear power plants in service and more plants are being developed or planned for construction. For nuclear power to be viable nuclear fuel, it must be sustainable and there should be a competent nuclear fuel waste management program. Constant technological developments will pave the way towards viable nuclear fuel through blocked fuel cycles and advance fuel development. This book focuses on topics and issues that need to be addressed for better production and security of nuclear fuel in nuclear plants.

Nuclear Technology

Peggy Sparks

ISBN: 978-1-63240-199-1
$144.95 US
2015
Book Size: 6”x9”
306pp./Colored
Hardback



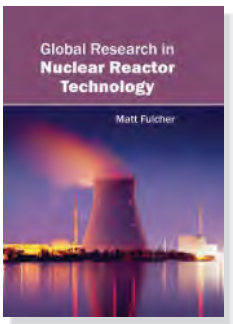
Encyclopedia of Radioactive Waste Management

The secure management of nuclear and radioactive wastes is a topic that has currently received huge recognition due to the large amount of accumulative wastes and the increased public awareness of the hazards of such wastes. This book caters to the practice and research efforts that are lately conducted to deal with the technical problems in various radioactive waste management acts and to introduce the non-technical factors that can affect the management applications. The book includes an introductory section and a section under pre-disposal activities of radioactive waste management. The authors have covered the management system; presented how old management methods and radioactive accident can affect the environment and summarized the information gained from latest management applications and results of research efforts for using some innovative techniques in both pre-disposal and disposal acts.

Nuclear Technology

Matt Fulcher

ISBN: 978-1-63240-250-9
$144.95 US
2015
Book Size: 6”x9”
340pp./Colored
Hardback



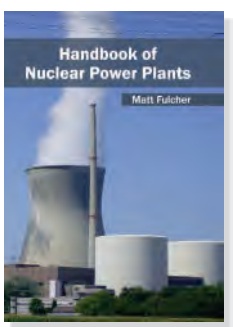
Global Research in Nuclear Reactor Technology

This book aims to explain the latest research and technological advances in the field of nuclear reactors. The main topics covered in the book include thermal stratification in PWR piping setup, isothermal based phase transformation leading to manifestation of nuclear fuel, latest procedures to calculate nuclear temperature using Doppler broadening function calculation, Monte Carlo burnup simulation of concentrated gadolinium burnable poison for PWR fuel, study of fuel alloy of uranium-molybdenum, and safety assessment of research reactors. The book also enlightens the reader about thermal hydraulics study for ultra-high temperature reactor with packed sphere fuels, the advantages of using lead-208 for high temperature reactor coolant for fast reactors and acceleration driven systems, the scope of nuclear power as electricity production with reference to Generation III and IV reactors, nanostructural materials and shaped solids for greater energy efficiency towards nuclear reactor safety, waste disposal, and multilateral nuclear approach to fuel cycles. The book also gives a descriptive analysis of the Fukushima nuclear accident.

Nuclear Technology

Matt Fulcher

ISBN: 978-1-63240-282-0
$144.95 US
2015
Book Size: 6”x9”
344pp./Colored
Hardback



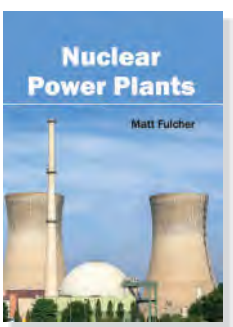
Handbook of Nuclear Power Plants

Nuclear power is rapidly emerging as a field of interest in countries across the globe with nuclear power plants being setup at a fast pace in various areas. This book caters to different issues, ranging from thermal-hydraulic analysis to the safety analysis of a nuclear power plant. The objective of the book is to discuss the challenging ideas that can be executed in and used for the development and advancement of future nuclear power plants. This book will expose readers to the world of innovative research and advancement of future plants.

Nuclear Technology

Matt Fulcher

ISBN: 978-1-63240-389-6
$109.95 US
2015
Book Size: 6”x9”
249pp./Colored
Hardback



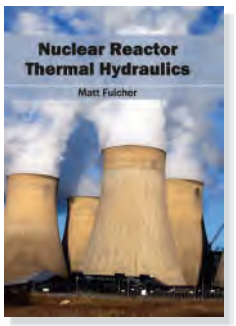
Nuclear Power Plants

Nuclear power plant is described as a power plant in which nuclear energy is converted into heat for use in producing steam. The main challenge faced globally is gathering enough energy for the increasing population and controlling the carbon emission caused by the usage of fossil fuels. To overcome this, nuclear energy can be used as an alternative power source. This book includes research work and technical experience from different power plants and research institutions around the world. It discusses various topics like nuclear systems protection, design and modeling of critical parameters in nuclear power plants, thermal-hydraulic analysis, nuclear waste management and safety assessment. The book consists of significant information which will be of interest to scientists and those in technical areas of nuclear power plants.

Nuclear Technology

Matt Fulcher

ISBN: 978-1-63240-390-2
$94.95 US
2015
Book Size: 6”x9”
199pp./Colored
Hardback



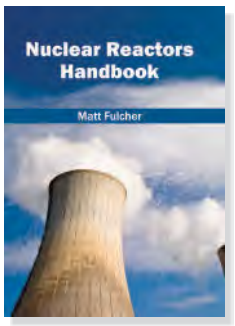
Nuclear Reactor Thermal Hydraulics

The book discusses various applications and feasibility of thermal hydraulics in detail. This book encompasses information contributed by researchers from across the globe on numerical advancements and applications to estimate fluid flow and heat transfer, focusing on thermal hydraulics computational fluid dynamics. The capability to stimulate bigger complications with more consistency has significantly expanded over the last decade. The compilation of material described in this book enhances the ever-increasing body of knowledge regarding the crucial topic of thermal hydraulics. The primary topics covered in this book include thermal hydraulic transport and mixing, coolant channel analysis, as well as heat transfer procedures and hydrodynamics. This book will serve as a great source of reference for researchers, students, engineers and even scientists.

Nuclear Technology

Matt Fulcher

ISBN: 978-1-63240-391-9
$144.95 US
2015
Book Size: 6”x9”
350pp./Colored
Hardback



Nuclear Reactors Handbook

This book presents a descriptive account on nuclear reactors. It comprises of an extensive review of studies in nuclear reactors technology contributed by authors around the world. Some of the major issues included in this book are - thermal hydraulic investigation of TRIGA type research reactor; the use of radiogenic lead recovered from ores as a coolant for fast reactors; decay heat in reactors and spent-fuel pools; current status of two-phase flow studies in reactor components; among others. It also elucidates other topics like the thermal aspects of conventional and alternative fuels in supercritical water-cooled reactor; simulation of nuclear reactors core; fuel life control in light-water reactors; structural materials modeling for the next generation of nuclear reactors; and the application of the results of finite group theory in reactor physics.

Nuclear Technology

Paul Patterson

ISBN: 978-1-63240-392-6
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback

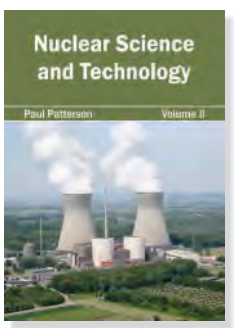
Nuclear Science and Technology: Volume I

Nuclear technology is one area which has constantly pushed the boundaries of innovation. It has emerged as a distinguished discipline of study and research. The book is an attempt to understand the research being done in the field of nuclear science and its installations and possible applications in the modern world. The current data available on nuclear installations, concepts and technologies are discussed in detail. The proposed technological advancements that are possible with advances in this field are also discussed.

Nuclear Technology

Paul Patterson

ISBN: 978-1-63240-393-3
$149.95 US
2015
Book Size: 8.5”x11”
218pp./Colored
Hardback



Nuclear Science and Technology: Volume II

Nuclear technology is one area which has constantly pushed the boundaries of innovation. It has emerged as a distinguished discipline of study and research. The book is an attempt to understand the research being done in the field of nuclear science and its installations and possible applications in the modern world. The current data available on nuclear installations, concepts and technologies are discussed in detail. The proposed technological advancements that are possible with advances in this field are also discussed.

Nuclear Technology

Paul Patterson

ISBN: 978-1-63240-394-0
$149.95 US
2015
Book Size: 8.5”x11”
221pp./Colored
Hardback

Nuclear Science and Technology: Volume III

Nuclear technology is one area which has constantly pushed the boundaries of innovation. It has emerged as a distinguished discipline of study and research. The book is an attempt to understand the research being done in the field of nuclear science and its installations and possible applications in the modern world. The current data available on nuclear installations, concepts and technologies are discussed in detail. The proposed technological advancements that are possible with advances in this field are also discussed.

Nuclear Technology

Paul Patterson

ISBN: 978-1-63240-395-7
$149.95 US
2015
Book Size: 8.5”x11”
216pp./Colored
Hardback

Nuclear Science: Engineering and Technology Volume I

The concept of nuclear science and technology is rapidly emerging. Nuclear science is being applied in varied fields of life such as medicine, thermal generators, oil and gas exploration etc. This book includes all the recent studies from all over the world, in the field of nuclear science and its applications.

Nuclear Technology

Paul Patterson

ISBN: 978-1-63240-396-4
$149.95 US
2015
Book Size: 8.5”x11”
226pp./Colored
Hardback

Nuclear Science: Engineering and Technology Volume II

The concept of nuclear science and technology is rapidly emerging. Nuclear science is being applied in varied fields of life such as medicine, thermal generators, oil and gas exploration etc. This book includes all the recent studies from all over the world, in the field of nuclear science and its applications.

Radioactive Waste

Peggy Sparks

ISBN: 978-1-63240-436-7
$94.95 US
2015
Book Size: 6”x9”
219pp./Colored
Hardback

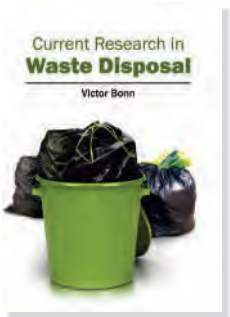
Radioactive Waste Management

Radioactive waste is a topic that has currently received huge recognition due to the large amount of accumulative wastes and the increased public awareness of the hazards of such wastes. This book caters to the practice and research efforts that are lately conducted to deal with the technical problems in various radioactive waste management acts and to introduce the non-technical factors that can affect the management applications. The mutual contributions of esteem international experts have presented the science and technology of several management practices under the section disposal activities. The authors have covered the management system; presented how old management methods and radioactive accidents can affect the environment in both pre-disposal and post-disposal acts.

Waste Management

Victor Bonn

ISBN: 978-1-63240-130-4
$119.95 US
2015
Book Size: 6”x9”
254pp./Colored
Hardback



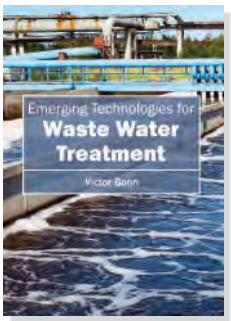
Current Research in Waste Disposal

This book provides research-focused information regarding the methods and concepts of waste disposal. It presents research findings on various interesting issues in waste disposal. Topics such as geophysical processes in site studies, analysis of municipal waste disposal sites, study of contamination flow path at a waste disposal site, and case studies of disposal of municipal wastes in various environments and locations are discussed within the book. It also elaborates on issues regarding, emissions related to waste disposal and nuclear waste disposal.

Waste Management

Victor Bonn

ISBN: 978-1-63240-170-0
$109.95 US
2015
Book Size: 6”x9”
203pp./Colored
Hardback



Emerging Technologies for Waste Water Treatment

This book, written by experts from across the globe, provides new insights into waste water management. The book includes advanced researches and techniques in treating waste. The creation of wastes as a consequence of human activities has been constantly increasing since the commencement of the industrial revolution. Both advanced waste water treatment technologies and modern tools to assess the effects of pollution sources are necessary to prevent the contamination of aquatic ecology. The book presents a multidisciplinary compilation of subjects regarding waste water management techniques, water quality monitoring, and assessment of waste water impact on ordinary surroundings. It is a collection of subjects dealing with waste water treatment and will be beneficial for graduate students, environmental professionals and researchers of various disciplines related to waste water management and treatment.

Quality Management

Stacy Escobar

ISBN: 978-1-63240-198-4
$159.95 US
2015
Book Size: 6”x9”
437pp./Colored
Hardback

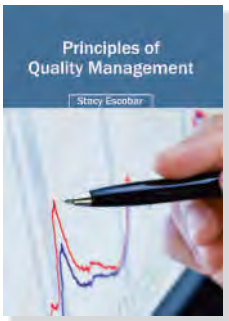
Encyclopedia of Quality Assurance and Management

This book encompasses encyclopedic information regarding quality, its assurance as well as management. The objective of this book is to discuss novel concepts, state-of-the-art technology and developments in researches related to quality. New ideas and latest advancements in the area of quality assurance and related issues are showcased in this book, which is organized according to the application fields. The book discusses the fundamental ideas and historical perceptions regarding quality, and also, quality assurance procedures in education, healthcare, medicine, software advances, service sector and other technical fields. This book primarily targets students, researchers, quality engineers, production and process managers, and professionals who are interested in quality assurance and related fields. The book is a significant addition to the literature in the area of quality assurance and management.

Quality Management

Stacy Escobar

ISBN: 978-1-63240-418-3
$119.95 US
2015
Book Size: 6”x9”
266pp./Colored
Hardback



Principles of Quality Management

An in-depth discussion regarding quality management and its practices has been highlighted in this up-to-date book. It consists of a compilation of reviews and research works contributed by professionals from across the globe. A practical approach to quality management will facilitate the readers with comprehensive information regarding topics ranging from basic to total quality practices in organizations, providing a systematic coverage of topics. The primary focus of this book is on quality management practices in organizations and dealing with particular total quality practices to quality management systems. This book can be used as a valuable source of reference at colleges, universities, corporate organizations, and for individual readers who wish to increase their knowledge regarding this field. The information provided in this book will serve as a helpful and useful guide for practitioners seeking to comprehend and use suitable techniques for implementation of total quality.

Quality Control

Theresa Heen

ISBN: 978-1-63240-016-1
$109.95 US
2015
Book Size: 6”x9”
218pp./Colored
Hardback

Advanced Concepts in Quality Control

Rapid development has been made in the past decade in the area of quality control methods and techniques. The objective of this book is to illustrate quality control procedures in several fields, like construction engineering and data quality. A wide range of techniques and methods have been presented in this book covering four major sections: “Quality, General Definitions”, “Evaluating Analytical Data”, “Quality Control for Biotechnology”, and “Planning for Quality Control”.

Quality Control

Theresa Heen

ISBN: 978-1-63240-285-1
$144.95 US
2015
Book Size: 6”x9”
347pp./Colored
Hardback

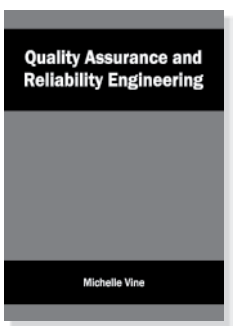
Handbook of Quality Control

Quality control is a procedure or set of procedures formulated for the purpose of maintaining standards in manufactured products. Rapid development has been made in the past decade in the area of quality control methods and techniques. The objective of this book is to illustrate quality control procedures in several fields, like pharmaceutics and medicine, construction engineering and data quality. A wide range of techniques and methods have been presented in this book.

Quality Control

Michelle Vine

ISBN: 978-1-63240-433-6
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback



Quality Assurance and Reliability Engineering

This book aims to foreground a very specific and advanced account of the important elements of quality control ethics. This book has been produced in order to design a text, which can help undergraduates of industrial engineering, in their researches in the field of quality control. The purpose of this book is to provide a basic account of different procedural concepts used in the designing of quality control techniques. The book presents models and concepts of quality control, specifically quality management and statically improvised models.

Quality Control

Theresa Heen

ISBN: 978-1-63240-434-3
$79.95 US
2015
Book Size: 6”x9”
127pp./Colored
Hardback

Quality Control

Quality control is a procedure or set of procedures formulated for the purpose of maintaining standards in manufactured products. This book presents a comprehensive overview of the important elements of quality control. It gives a contemporary account of methods used to design quality models. It is created to be used as a text for courses on quality control for students of industrial engineering at the advanced and undergraduate level. The book can also serve as a reference for researchers in related areas looking for a synopsis of the main concepts of quality control.

Management

Ruth Hinrichs

ISBN: 978-1-63240-210-3
$109.95 US
2015
Book Size: 6”x9”
238pp./Colored
Hardback

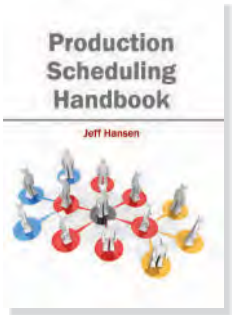
Engineering Management

This book combines engineering principles with business practice, i.e. it gives a consolidation of the primary fields of engineering and technology with the organizational, administrative, and planning capacities of management. It corresponds to various other fields like finance, marketing, economics, among others. The contributions in this book demonstrate the original work done in this area and give case studies which have successfully applied engineering management in real life situations. It will be beneficial for readers researching new developments in this field or for those utilizing this field as part of their work.

Management

Jeff Hansen

ISBN: 978-1-63240-419-0
$109.95 US
2015
Book Size: 6”x9”
242pp./Colored
Hardback



Production Scheduling Handbook

This book dwells on the significance of production scheduling and elucidates comprehensive information and concepts related to it. Scheduling is the method of mapping a set of tasks or jobs to a set of target resources effectively. More specifically, as a part of a bigger plan and scheduling method, production scheduling is necessary for the proper functioning of a manufacturing corporation. This book discusses topics like rescheduling strategies, policies and procedures for production scheduling; flow shop scheduling; and heuristic and metaheuristic procedures for treating the scheduling difficulty in an efficient way. To explain this effectively, two test cases are also presented. The first case makes use of simulation, whereas the second presents actual application of a production scheduling system. Some modeling strategies for building production scheduling systems are also discussed. This book will be useful to those working in the decision-making branches of production in different operational research fields and computational process design.

Civil Engineering

Seth Royal

ISBN: 978-1-63240-090-1
$149.95 US
2015
Book Size: 8.5”x11”
170pp./Colored
Hardback

Building Construction and Planning Handbook

Infrastructure is an essential component of every economy as it is a measure of a country’s development and progress. From theories to research to practical implementation, researches related to all contemporary topics of relevance in the area of building construction and planning have been included in this book. It will be a resource guide for students and experts alike.

Civil Engineering

Sarah Crowe

ISBN: 978-1-63240-103-8
$149.95 US
2015
Book Size: 8.5”x11”
214pp./Colored
Hardback

Civil Engineering: Beyond the Basics Volume I

Civil Engineering is an exclusive science that encompasses numerous other disciplines of knowledge to produce a series of useful facilities for the society. The world is progressing at a fast pace and so is science. This book serves as an advanced text in the understanding of civil engineering. It also provides some ground-breaking researches on designing, planning, construction and maintenance of infrastructure in various sectors of the society.

Civil Engineering

Sarah Crowe

ISBN: 978-1-63240-104-5
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback

Civil Engineering: Beyond the Basics Volume II

Civil Engineering is an exclusive science that encompasses numerous other disciplines of knowledge to produce a series of useful facilities for the society. The world is progressing at a fast pace and so is science. This book serves as an advanced text in the understanding of civil engineering. It also provides some ground-breaking researches on designing, planning, construction and maintenance of infrastructure in various sectors of the society.

Civil Engineering

Sarah Crowe

ISBN: 978-1-63240-105-2
$149.95 US
2015
Book Size: 8.5”x11”
202pp./Colored
Hardback

Civil Engineering: Beyond the Basics Volume III

Civil Engineering is an exclusive science that encompasses numerous other disciplines of knowledge to produce a series of useful facilities for the society. The world is progressing at a fast pace and so is science. This book serves as an advanced text in the understanding of civil engineering. It also provides some ground-breaking researches on designing, planning, construction and maintenance of infrastructure in various sectors of the society.

Civil Engineering

Sarah Crowe

ISBN: 978-1-63240-106-9
$149.95 US
2015
Book Size: 8.5”x11”
214pp./Colored
Hardback

Civil Engineering: Volume I

Civil engineering is the very basic of infrastructure of every country. It contributes to the growth and development of the country. This book includes all the latest approaches to civil engineering from all across the world. It is a comprehensive guide to all interested students and experts alike.

Civil Engineering

Sarah Crowe

ISBN: 978-1-63240-107-6
$149.95 US
2015
Book Size: 8.5”x11”
220pp./Colored
Hardback

Civil Engineering: Volume II

Civil engineering is the very basic of infrastructure of every country. It contributes to the growth and development of the country. This book includes all the latest approaches to civil engineering from all across the world. It is a comprehensive guide to all interested students and experts alike.

Civil Engineering

Sarah Crowe

ISBN: 978-1-63240-258-5
$149.95 US
2015
Book Size: 8.5”x11”
209pp./Colored
Hardback

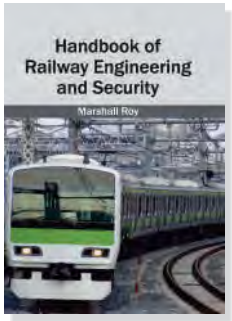
Handbook of Civil Engineering

This book is written by professionals in the field of civil engineering and is focused on the concepts and recent advances in the field. Also presented in this book are the problems, along with the solutions that our society faces due to rapid increase in population and lack of space to contain it. This book on civil engineering contains topics which will prove highly valuable to civil engineers for their future projects. It discusses important aspects of civil engineering through its numerous chapters. This book has been profusely illustrated for a better understanding of the concepts.

Railway Engineering

Marshall Roy

ISBN: 978-1-63240-287-5
$94.95 US
2015
Book Size: 6”x9”
201pp./Colored
Hardback



Handbook of Railway Engineering and Security

Ever since the first ever train was used to carry coal from a mine in Shropshire (England, 1600), the technology of railway transportation has never looked back. It has only evolved and developed and remains one of the most important developments in the history of mankind even in today’s age. The biggest invention in this field was the development of steam locomotive, but it took another two hundred years for commercial rail travel to practically begin. The railway systems of present day are much more complicated than they earlier used to be. This book is devoted to parameters monitoring in railway construction for safety and reliability purposes. This book provides a technical guide for those interested in learning about railway engineering and security.

Railway Engineering

Marshall Roy

ISBN: 978-1-63240-437-4
$144.95 US
2015
Book Size: 6”x9”
344pp./Colored
Hardback

Railway Engineering and Security

Ever since the first ever train was used to carry coal from a mine in Shropshire (England, 1600), the technology of railway transportation has never looked back. It has only evolved and developed and remains one of the most important developments in the history of mankind even in today’s age. The biggest invention in this field was the development of steam locomotive, but it took another two hundred years for commercial rail travel to practically begin. The railway systems of present day are much more complicated than they earlier used to be. This book will provide readers with an insight into these discussed topics and will prove to be a complete technical guide. It will also present a precise overview on some of the world’s most well-known railway systems. The main purpose of this book is to prove beneficial to the learners, practitioners, workers and engineers involved in this field.

Railway Engineering

Marshall Roy

ISBN: 978-1-63240-438-1
$159.95 US
2015
Book Size: 6”x9”
430pp./Colored
Hardback

Railway Systems Engineering: Security Concerns

This book is an important source of information on railway systems engineering. In railway applications, performance studies are important for increasing the durability of railway systems. One of the main objectives is to validate whether the working conditions are reliable and safe. This task not only requires analysis of the whole traction chain, but also needs authentication that the railway infrastructure is efficiently working. Therefore, many tests for detecting any dysfunctions on their proper operation have been developed. This book discusses the various basics of railway traction, providing suggestions on exploratory approaches to spot any dysfunctions as well as reliability and safety issues. This book aims to serve as a valuable reference for students, educators, scientists, faculty members, researchers, and engineers.

Reverse Engineering

Ruth Hinrichs

ISBN: 978-1-63240-452-7
$119.95 US
2015
Book Size: 6”x9”
288pp./Colored
Hardback

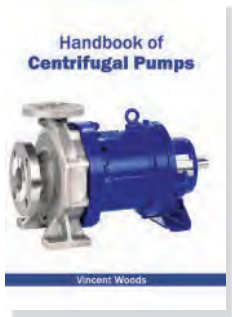
Reverse Engineering

Reverse engineering consists of a broad range of activities whose main function is to extract knowledge about the structure, application and behaviour of natural or manmade objects. Enhanced data mining and processing algorithms, and a development of data sources has opened various avenues for reverse engineering applications. This book demonstrates different functions of this field in various other areas. This book consists of a comprehensive summary of the field of reverse engineering and will also serve as a roadmap for practitioners of various fields regarding the applications of reverse engineering in their concerned fields.

Pumps

Vincent Woods

ISBN: 978-1-63240-257-8
$79.95 US
2015
Book Size: 6”x9”
117pp./Colored
Hardback



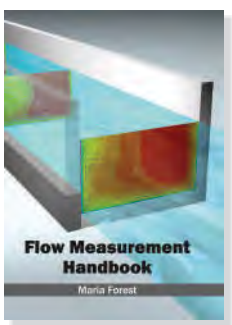
Handbook of Centrifugal Pumps

Centrifugal pumps are commonly used for pumping sewage, petrochemicals etc. The structure of a hydraulic machine, as a centrifugal pump, has evolved primarily to fulfill the requirements of fluid flow. This book compiles various case studies which take into consideration the strong collaboration between the pump and the pumping installation, and the need to manage the process. It also discusses the necessity to operate best efficiency in order to save energy, the condition to advance the operation against cavitation and other significant topics. The book will be beneficial for readers interested in gathering information about centrifugal pumps.

Fluid Dynamics

Maria Forest

ISBN: 978-1-63240-237-0
$94.95 US
2015
Book Size: 6”x9”
195pp./Colored
Hardback



Flow Measurement Handbook

The primary focus of this book is flow measurement. It provides the reader with complete knowledge about various topics related to the subject. It covers a variety of topics ranging from basic theories to applications in microflows and encompasses all the problems related to the phenomenon. It also discusses the numerical and analytical aspects of evaluation of biphasic flow like separation of different phases to perform its independent evaluation and other experimental techniques. The book describes various developmental experiments and machines used for the gas flow, principally combustible gases and air. Lastly, it demonstrates topics on the theological and experimental ways of evaluating ‘flow measurement’ and that too with the means of pressure changes, applied on large and small flows.

Chemical Engineering

Jina Redlin

ISBN: 978-1-63240-094-9
$144.95 US
2015
Book Size: 6”x9”
336pp./Colored
Hardback

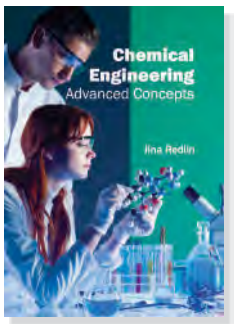
Chemical Engineering

This book provides the reader with information on the basics of and developments in chemical engineering. It discusses current changes in chemical engineering and gives a comprehensive summary of the developments occurring within this field. From the kinetic and thermodynamic molding aspect, the molecular angle is extremely significant. Hence, most of the issues discussed within this book were written keeping in mind industrial problems and posit solutions to these problems from experts around the world. The contents of the book broadly belong to two categories, the developments within chemical engineering, and catalysis and reaction engineering. The primary focus of this book has been given to molecular chemistry, reaction engineering and modeling to create balanced and prosperous industrial design. This book will provide fundamental knowledge regarding this field to both students and professionals.

Chemical Engineering

Jina Redlin

ISBN: 978-1-63240-095-6
$119.95 US
2015
Book Size: 6”x9”
272pp./Colored
Hardback



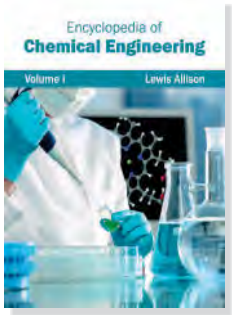
Chemical Engineering: Advanced Concepts

This book discusses current changes in chemical engineering and gives a comprehensive summary of the developments occurring within this field. From the kinetic and thermodynamic molding aspect, the molecular angle is extremely significant. Hence, most of the issues discussed within this book were written keeping in mind industrial problems and posit solutions to these problems from experts around the world. The contents of the book broadly belong to two categories, process engineering and separation technology. This book will provide fundamental knowledge regarding this field to both students and professionals.

Chemical Engineering

Lewis Allison

ISBN: 978-1-63240-176-2
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback



Encyclopedia of Chemical Engineering: Volume I

Chemicals are an essential component in almost all production processes, which is why the branch of chemical engineering is an extremely significant and relevant one in present times. Essentially, chemical engineering is a branch of engineering that deals with the conversion of raw materials into more useful forms. Though relatively new, this is a field of engineering that has rapidly become significant in all walks of life. This book encompasses the latest occurrences in the field of chemical engineering. This book, with its detailed analysis and data, will prove crucially useful to people involved in chemical engineering at various levels.

Chemical Engineering

Lewis Allison

ISBN: 978-1-63240-177-9
$149.95 US
2015
Book Size: 8.5”x11”
218pp./Colored
Hardback

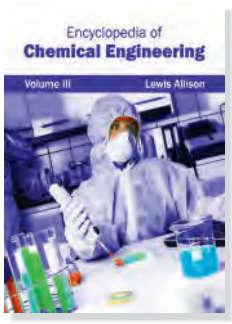
Encyclopedia of Chemical Engineering: Volume II

Chemicals are an essential component in almost all production processes, which is why the branch of chemical engineering is an extremely significant and relevant one in present times. Essentially, chemical engineering is a branch of engineering that deals with the conversion of raw materials into more useful forms. Though relatively new, this is a field of engineering that has rapidly become significant in all walks of life. This book encompasses the latest occurrences in the field of chemical engineering. This book, with its detailed analysis and data, will prove crucially useful to people involved in chemical engineering at various levels.

Chemical Engineering

Lewis Allison

ISBN: 978-1-63240-178-6
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback



Encyclopedia of Chemical Engineering: Volume III

Chemicals are an essential component in almost all production processes, which is why the branch of chemical engineering is an extremely significant and relevant one in present times. Essentially, chemical engineering is a branch of engineering that deals with the conversion of raw materials into more useful forms. Though relatively new, this is a field of engineering that has rapidly become significant in all walks of life. This book encompasses the latest occurrences in the field of chemical engineering. This book, with its detailed analysis and data, will prove crucially useful to people involved in chemical engineering at various levels.

Biomedical Engineering

Mark Walters

ISBN: 978-1-63240-000-0
$109.95 US
2015
Book Size: 6”x9”
239pp./Colored
Hardback

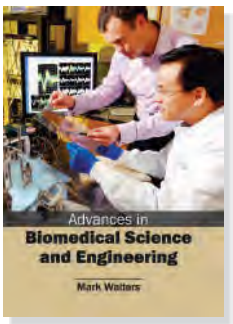
A Reference Manual for Biomedical Engineering and its Applications

This book pertains to various segments of bio-medical engineering and its applications in science and industry. In this text, there are diverse topics that have been looked into like the safety of patients pertaining to medical technology management, the use of optics in biomedical technology, methods of skin welding procedures, medical instrument application and their attributes.

Biomedical Engineering

Mark Walters

ISBN: 978-1-63240-046-8
$109.95 US
2015
Book Size: 6”x9”
233pp./Colored
Hardback



Advances in Biomedical Science and Engineering

This book provides a comprehensive account of the advances in biomedical science and engineering. Biomedical science is a vast field dealing with disease progression, paradigms and therapeutic measures. For instance, efficacy of red palm oil and phytomedicines to fight HIV and diabetes by increasing antioxidant activities is analyzed under biomedical sciences. Mathematical drafting of physiological systems and their assessment comes under physiological engineering. Even in hospital management, both biomedical science and engineering are required in order to run hospitals efficiently. This book will benefit students and experts to enhance their knowledge in the above stated topics.

Biomedical Engineering

Mark Walters

ISBN: 978-1-63240-083-3
$159.95 US
2015
Book Size: 6”x9”
435pp./Colored
Hardback

Biomedical Engineering – Applied Techniques in Medicine

The field of biomedical engineering has been illustrated in this book along with some applied techniques in medicine. Biomedical engineering is a diverse field of research. Its aim is to support and improve the clinical methods; be it therapy, diagnostics or rehabilitation. Biomedical engineering is available at nearly every technical university with many of them emphasizing on research and development in this field. The research works compiled in this book have been approved and appreciated by eminent European and international agencies. It provides comprehensive knowledge regarding biomaterials, bioelectronics and biomedical equipments applied in therapeutic and diagnostic processes of clinical trials. This book covers different aspects of biomedical engineering varying from fundamentals to its prospective applications in research and developments.

Biomedical Engineering

Mark Walters

ISBN: 978-1-63240-084-0
$159.95 US
2015
Book Size: 6”x9”
425pp./Colored
Hardback

Biomedical Engineering Applications

The extensive applications in the field of biomedical engineering are discussed in this profound book. Biomedical Engineering is an interesting and rising interdisciplinary field which integrates life sciences with engineering. The significance of this field can be perceived in our everyday lives every time we visit a hospital, undergo medical treatment or even when we buy health products like automatic blood pressure monitor device. Over the past few years, we have experienced excellent technological growth in health care and this has been possible because of the combined work of mathematicians, computer scientists, engineers, physicians and several other professionals. This book consists of a compilation of comprehensive data that introduces the readers with the most advanced examples of practical uses in this field elucidating major topics like Biomaterials and Prosthetic Equipment, Biomedical Signal Processing and Modeling as well as Biomedical Image Processing.

Biomedical Engineering

Mark Walters

ISBN: 978-1-63240-085-7
$149.95 US
2015
Book Size: 6”x9”
375pp./Colored
Hardback

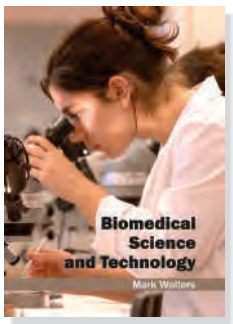
Biomedical Science and Engineering

A comprehensive account of biomedical science and engineering is available in this book. Biomedical science is a vast field dealing with disease progression, paradigms and therapeutic measures. For instance, biomaterial implants are analyzed under biomedical sciences. Biomedical engineering encompasses biological materials, clinical test assessments, medical devices like contact lenses etc. Mathematical drafting of physiological systems and their assessment comes under physiological engineering. Even in hospital management, both biomedical science and engineering are required in order to run hospitals efficiently. This book will prove to be a valuable source for clinicians, scientists and students.

Biomedical Engineering

Mark Walters

ISBN: 978-1-63240-086-4
$119.95 US
2015
Book Size: 6”x9”
304pp./Colored
Hardback



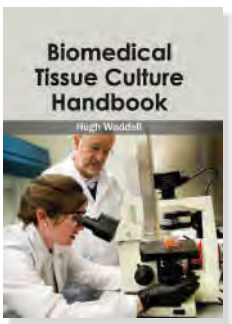
Biomedical Science and Technology

This book is an attempt to provide a comprehensive account of biomedical science and biotechnology. Biomedical science is a vast field dealing with disease progression, paradigms and therapeutic measures. For instance, physiological systems engineering in medical assessment is analyzed under biomedical sciences. Biotechnology covers study of biological sciences, efficacy of pharmaceuticals, application of genetic engineering and much more. Mathematical drafting of physiological systems and their assessment comes under physiological engineering. Even in hospital management, both biomedical science and engineering are required in order to run hospitals efficiently. This book will prove to be a valuable source for clinicians, scientists and students.

Biomedical Engineering

Hugh Waddell

ISBN: 978-1-63240-087-1
$109.95 US
2015
Book Size: 6”x9”
250pp./Colored
Hardback



Biomedical Tissue Culture Handbook

This book focuses on providing information regarding biomedical tissue culture. It deals with the science of tissue culture highlighting nearly every major aspect of it. Among the many topics discussed in this book are; development of cultural techniques to produce neuron syncytial connections, multinucleated cells, method of regenerating cartilage tissue, improvised utilization of cell culture for virus isolation, cultivation of placenta derived cells, cells with properties of stem cells and cultures to study the pathogenicity of enteropathogenic bacteria.

Medical Engineering

Morris McMahon

ISBN: 978-1-63240-278-3
$149.95 US
2015
Book Size: 8.5”x11”
195pp./Colored
Hardback

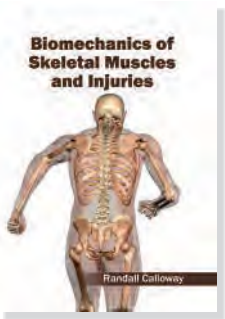
Handbook of Medical Engineering

Medical engineering is an upcoming and growing field of study and research. This book is a valuable compilation of topics, ranging from the basic to the most recent advancements in the field of medical engineering. It contains numerous studies and researches on various aspects of medical engineering to aid the reader’s knowledge in this field. This book presents an extensive coverage of various medical engineering applications which will aid healthcare treatment all over the world.

Biomechanics

Randall Calloway

ISBN: 978-1-63240-082-6
$109.95 US
2015
Book Size: 6”x9”
229pp./Colored
Hardback



Biomechanics of Skeletal Muscles and Injuries

Biomechanics of skeletal muscles as well as injuries are described in this book in a sophisticated and comprehensive way. It talks about different approaches of Injury and Skeletal Biomechanics. It focuses on the perspectives of force, motion, kinetics, kinematics, deformation, stress and strain examined in various matters like human muscles and skeleton, gait, injury and risk evaluation in a particular situation. The book discusses a myriad of different matters from image processing to articular cartilage biomechanical characteristics, gait behavior in varied situations, and training, to musculoskeletal and wound biomechanics modeling and risk estimation to motion preservation. This book will prove to be of great value to learners and practitioners who want to use it to change and evolve advanced graduate courses and school level teaching in biomechanics.

Ergonomics

Randall Calloway

ISBN: 978-1-63240-221-9
$109.95 US
2015
Book Size: 6”x9”
244pp./Colored
Hardback

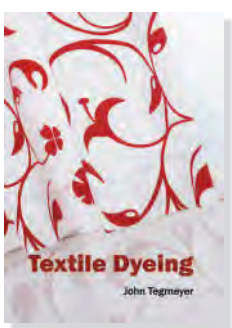
Ergonomics Sourcebook

This book discusses various topics related to ergonomics which is described as the scientific study of people in their working environment. It evaluates the relationships between workers and their work environment from various complementary perspectives. This book examines topics related to physical ergonomics such as lower and upper limbs, low back ailments, and some ways and tools that can be used to tackle them. The subject of organizational prospect of work within the book highlights how dynamic, flexible and reconfigurable assembly systems can properly respond to changes in the market. The topic of human-computer interaction presents related issues such as usability, user-centered design and user experience design showing framework concepts for the usability of engineering lifecycle aiming to enhance the user-system interaction. The book also discusses various topics related to cognitive ergonomics such as critical thinking skills and cognitive work.

Textiles

John Tegmeyer

ISBN: 978-1-63240-484-8
$159.95 US
2015
Book Size: 6”x9”
404pp./Colored
Hardback



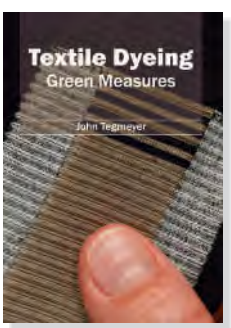
Textile Dyeing

The textile industry all over the world is expanding. The coloration of threads and materials via dyeing is an essential part of textile production. This book is a compilation of several examples and aspects related to textile dyeing and will be beneficial for textile industrialists, researchers and students in the field.

Textiles

John Tegmeyer

ISBN: 978-1-63240-485-5
$119.95 US
2015
Book Size: 6”x9”
266pp./Colored
Hardback



Textile Dyeing: Green Measures

This profound book describes the importance of adopting green measures to the field of textile dying, elucidating an eco-friendly approach. Researchers and scientists from across the globe have contributed advanced information in this book and it covers a great range of topics like the role of cyclodextrins in textile finishing, surface modification techniques, information regarding multifunctional textiles, etc. This book intends to serve as a great source of reference for a broad spectrum of readers including scientists, researchers, textile industrialists and even students on a global scale.

Textiles

Victor Bonn

ISBN: 978-1-63240-486-2
$94.95 US
2015
Book Size: 6”x9”
165pp./Colored
Hardback

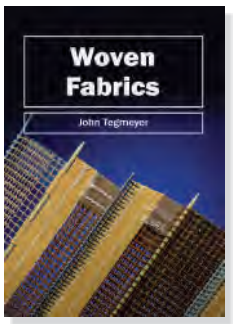
Textile Effluent Treatment

This book covers various aspects related to the treatment of textile effluents. The management of textile wet processing effluent to meet severe legislative regulations is a complex and constantly changing procedure. Treatment techniques that were acceptable in the past may not be applicable today or in the future. This book presents some concepts and processes to help the textile industry in meeting the demanding requirements of handling textile waste matter.

Textiles

John Tegmeyer

ISBN: 978-1-63240-526-5
$144.95 US
2015
Book Size: 6”x9”
308pp./Colored
Hardback



Woven Fabrics

Woven fabrics are a popular variety of textiles. This book deals with the production and manufacturing of woven fabrics. Generally, woven fabrics are the traditional textile fabrics used for cloth production, and are used extensively in several fabric compositions as intermediate goods that affect human actions. The relative significance of woven fabrics as traditional textile materials is tremendously huge, and at present, application fields of woven fabrics as technical textiles is rapidly extended by utilizing its geometric features and advantages. For instance, this book covers systematic approaches to fabric design, micro and nano technology required to create woven fabrics, as well as the theories for industrial applications.

Media and Communication Studies

Akira Hanako

ISBN: 978-1-63240-631-6
$137.95 US
2017
Book Size: 8.5”x11”
225pp./Colored
Hardback

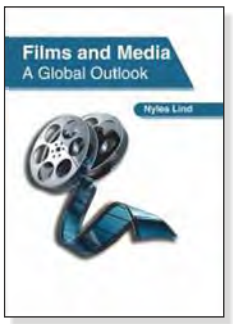
Communication Technologies: Theory and Practice

This book on communication technologies discusses topics related to the implementation of software and hardware for communication and information sharing practices. Communication technologies facilitate the quick transmission of data to multiple users. Technical innovation in this sector determines the future progress in this field. The various advancements in communication technologies are glanced at and their applications as well as ramifications are looked at in detail. This book is meant for students who are looking for an elaborate reference text on communication technologies. It is a vital tool for all researching or studying this field as it gives incredible insights into emerging trends and concepts.

Media and Communication Studies

Nyles Lind

ISBN: 978-1-63240-620-0
$137.95 US
2017
Book Size: 7.75”x10.5”
221pp./Colored
Hardback



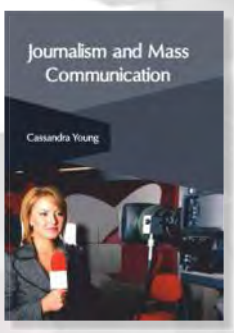
Films and Media: A Global Outlook

This book on films and media discusses the aesthetic and cultural values that are embodied in the art of film. The medium of the cinema reflects contemporary tastes, attitudes and opinions that make up the socio-cultural setup of any society. An assessment of the various films of a period enables us to see the influences that popular culture and representation has on filmmaking. The contents of this text seek to address the theoretical, technical and cultural aspects of cinema in a comprehensive manner. The field of cinema and media studies is multi-disciplinary and the topics in this book follow the same approach. It will prove immensely beneficial to students and researchers in this field.

Media and Communication Studies

Cassandra Young

ISBN: 978-1-63240-612-5
$144.95 US
2017
Book Size: 7”x10”
234pp./Colored
Hardback



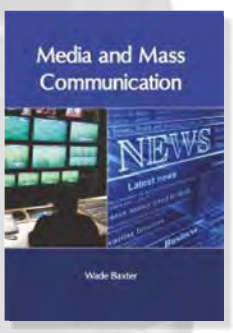
Journalism and Mass Communication

The topics included in this book on journalism and mass communication are of utmost significance and are bound to provide incredible insights to readers. Collecting data and presenting this data through mass media as information to the audience is discussed in this book. Apart from the primary role of content in this field, it also addresses secondary roles like influence of culture, trends, social causes, etc. The book studies, analyses and upholds the pillars of journalism and mass communication and its utmost significance in modern times. It has been compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of this field. It will prove immensely beneficial to professionals and students involved in this area at various levels.

Media and Communication Studies

Wade Baxter

ISBN: 978-1-63240-638-5
$132.95 US
2017
Book Size: 8.5”x11”
217pp./Colored
Hardback



Media and Mass Communication

This book on media and mass communication discusses the recent technical developments that have affected media portrayal, media transmission methods and media consumption technologies. Advancement of technology plays an important role in the way media is received. Broadcasting and similar technologies of circulation make the media an important part of our daily lives. Some of the diverse topics covered in this book address the varied branches that fall under this category. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this discipline have been presented in this text. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals. It is a complete source of knowledge on the present status of this important field.

Education

Orion Gutierrez

ISBN: 978-1-63240-607-1
$144.95 US
2017
Book Size: 8.5”x11”
238pp./Colored
Hardback

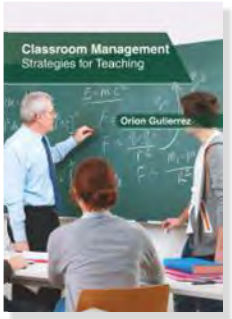
Classroom Management and Learning Technologies

Classroom management refers to the protocols that must be followed in the teaching and learning process that ensures a healthy and safe environment for attaining education. This book on classroom management discusses the various aspects of classroom management, from the social background of students, to the contents of the curriculum to the management of extra-curricular activities. Contents in this book discuss the diverse classroom management strategies and promote holistic learning centres. This book is a complete source of knowledge on the present status of this important field. It will prove beneficial to students and researchers in the fields of teacher training, distance education and educational technologies.

Education

Orion Gutierrez

ISBN: 978-1-63240-630-9
$132.95 US
2017
Book Size: 7.75”x10.5”
215pp./Colored
Hardback



Classroom Management: Strategies for Teaching

Classroom management is the process by which teachers and educational administrators manage and practice teaching techniques. This book on classroom management discusses the fundamental concepts like lesson planning, learning methodologies and the various study skills that are attained by students. Contents also highlight the learning objectives that are to be set in an effective classroom environment. This book aims to equip students and experts with the advanced topics and upcoming concepts in this area. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study.

Education

Enzo Archer

ISBN: 978-1-63240-632-3
$149.95 US
2017
Book Size: 7”x10”
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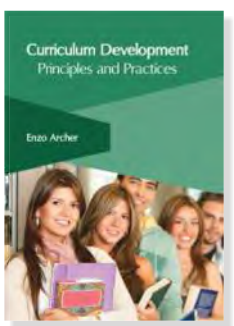


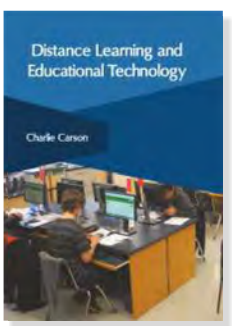
Curriculum Development: Principles and Practices

This book on curriculum development discusses topics related to the design and development of student educational processes and material. Curriculum development consists of various categories such as prescribed courses and syllabus as well as extra-curricular activities and added material. Syllabus development practices seek to emphasize student experiences in learning and the role of cognition in learning. The book studies, analyses and uphold the pillars of curriculum development and its utmost significance in modern times. 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 students seeking detailed information in this area as well as for experts.

Education

Charlie Carson

ISBN: 978-1-63240-616-3
$119.95 US
2017
Book Size: 7”x10”
206pp./Colored
Hardback



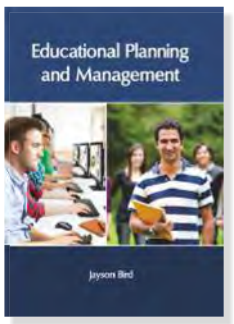
Distance Learning and Educational Technology

This book on distance learning and educational technology deals with the technical, academic and specialized development of e-learning technologies in correlation to distance and distributed education. The technological aspect of education is meant to assist students through efficient learning techniques as well as teachers through effective curriculum development and management. This book is a valuable compilation of topics, ranging from the basic to the most complex advancements in the field of distance learning and educational technology. Some of the diverse researches covered herein address the varied branches that fall under this category. It aims to shed light on some of the unexplored aspects of distance learning and educational technology. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

Education

Jayson Bird

ISBN: 978-1-63240-608-8
$132.95 US
2017
Book Size: 8.5”x11”
215pp./Colored
Hardback



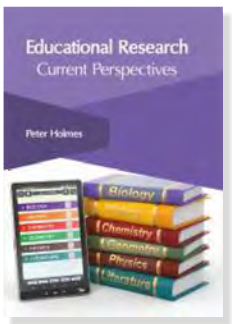
Educational Planning and Management

Educational planning can be defined as the creation of policies and programs that promote and facilitate training, acquiring of skill, research and study in educational institutions. This book on educational planning and management discusses the prospects of capacity building and research development with regard to educational management. Administration of education encompasses the wide range of policies that affect all sections of this field. Some of the diverse topics covered in this book address the varied branches that fall under this category. It will serve as a reference to a broad spectrum of readers. The extensive content of this book provides the readers with a thorough understanding of the subject.

Education

Peter Holmes

ISBN: 978-1-63240-633-0
$137.95 US
2017
Book Size: 7”x10”
228pp./Colored
Hardback



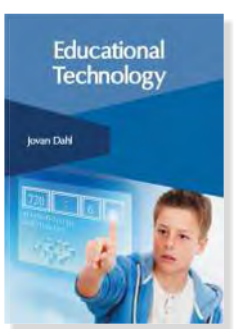
Educational Research: Current Perspectives

Student learning techniques, classroom management, teacher training, etc. are all varied yet significant aspects of educational research. This field contributes significantly towards developing advanced and focused pedagogy to facilitate better learning. This book aims to shed light on some of the unexplored aspects of educational research and the recent researches 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. 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.

Education

Jovan Dahl

ISBN: 978-1-63240-634-7
$149.95 US
2017
Book Size: 7”x10”
246pp./Colored
Hardback



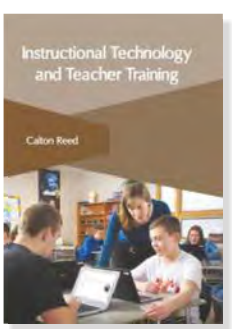
Educational Technology

Educational technology refers to technology that facilitates the process of learning and acquiring skill. This book on educational technology discusses the major aspects of technology in education and the processes whereby learning is acquired. Contents in this text highlight the various technologies that enable learning, the theoretical processes that such learning is based on and the overall understanding of both curriculum and the technology that is acquired by students. This book will help new researchers by foregrounding their knowledge in this branch. A number of latest researches have been included to keep the readers up-to-date with the global concepts in this area of study. As this field is emerging at a rapid pace, this book will help the readers understand the modern concepts and applications of the subject.

Education

Calton Reed

ISBN: 978-1-63240-636-1
$144.95 US
2017
Book Size: 7”x10”
239pp./Colored
Hardback



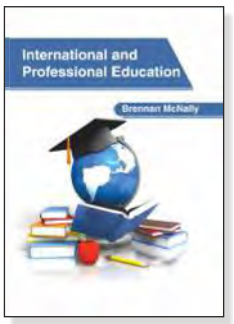
Instructional Technology and Teacher Training

Teacher training outlines policies and plans that help prospective teachers acquire knowledge and skill. It also deals with the management of classrooms and the effective transmission of information with the aid of technology. This book on instructional technology and teacher training discusses topics related to the practices that face under this field. This book is a compilation of chapters that discuss the most vital concepts and emerging trends in this field. It aims to shed light on some of the unexplored aspects and the recent researches in this area. This book, with its detailed analyses 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 text.

Education

Brennan McNally

ISBN: 978-1-63240-637-8
$137.95 US
2017
Book Size: 7.75”x10.5”
227pp./Colored
Hardback



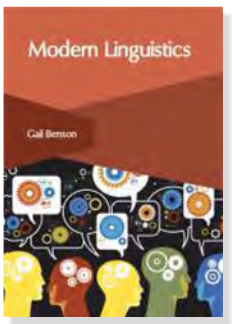
International and Professional Education

International education can be defined as the interaction and involvement of students and teachers in the learning process that is not restricted to physical boundaries. This book on international and professional education discusses the major components of international education such as teaching and learning in international contexts, familiarity with multiple languages and cognition and learning in cultural contexts. International education programmes such as exchange student programs allow for greater cultural assimilation and understanding among nations. This book provides significant information of this discipline to help develop a good understanding of the subject and its related fields. It aims to equip students and experts with the advanced topics and upcoming concepts in this area.

Education

Gail Benson

ISBN: 978-1-63240-609-5
$132.95 US
2017
Book Size: 7”x10”
212pp./Colored
Hardback



Modern Linguistics

This book is about modern linguistics, which encompasses work in the areas of historical linguistics, computational linguistics, development linguistics, etc. Modern linguistics is applied in speech recognition, speech synthesis, artificial intelligence, natural language processing and computer mediated language learning. This book provides comprehensive insights into the field of modern linguistics. It elucidates the concept and innovative models around prospective developments with respect to linguistics. This book attempts to understand the multiple branches under their discipline and how such concepts have practical applications. It aims to serve as a resource guide to students and experts alike and contribute to the growth of linguistics.

Psychology

Ella Hunter

ISBN: 978-1-63240-096-3
$94.95 US
2015
Book Size: 6”x9”
161pp./Colored
Hardback

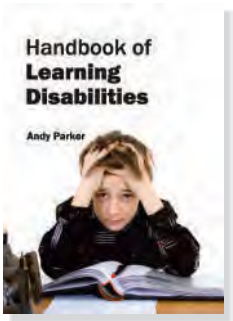
Children's Cognitive Development and Learning

This book primarily lays emphasis on issues associated with children’s learning and cognition abilities. The book brings to light the complex array of factors that form a child’s learning process and also affects a child’s understanding. Extended researches in the book explain well-established theories about children’s learning, essential to understand from beyond individual opinions and scientific explanations of a child’s learning. The book also covers the effects of autism on a child’s ability to put together information. Also explained in this book is the relationship between video games and the essential components of one’s mind such as thinking, memory and visual-spatial intelligence. Finally, the book throws light on the sense making process of children and adolescents with respect to their surroundings.

Psychology

Andy Parker

ISBN: 978-1-63240-276-9
$149.95 US
2015
Book Size: 6”x9”
378pp./Colored
Hardback



Handbook of Learning Disabilities

This book aims to educate the readers about the learning disabilities with the help of extensive information. Learning disability is a realm encompassing several disorders in which a person faces challenges in learning in a conventional manner. Depending on the type and seriousness of the disability, interventions may be used to help an individual learn strategies that will support future success. While some of these interventions are quite easy and accessible, others are intricate and complex. This book caters to a wide audience and will be beneficial not only for teachers and parents struggling with attachment or behavior issues, but also for health care professionals and clinicians engaged in working for special needs such as sensory integration dysfunction.

Psychology

Charles Freeman

ISBN: 978-1-63240-432-9
$144.95 US
2015
Book Size: 6”x9”
342pp./Colored
Hardback

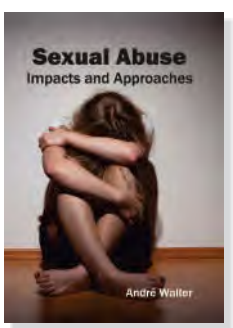
Psychology: Global Researches

This book consists of valuable information addressing numerous topics from the wide spheres of psychology: personality psychology, clinical interventions, qualitative research techniques, alcoholism, social psychology, and treatment of depression. Experts related to various psychology fields from across the globe have contributed their interesting studies in this book. The content in this book will appeal to a great range of audience and take them on an interesting journey through the realms of psychology.

Psychology

André Walter

ISBN: 978-1-63240-465-7
$109.95 US
2015
Book Size: 6”x9”
250pp./Colored
Hardback



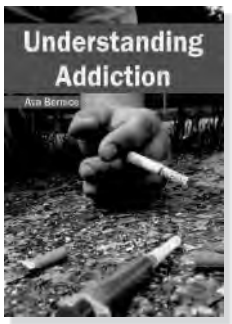
Sexual Abuse: Impacts and Approaches

This book covers the varied impacts and approaches of sexual abuse. Sexual assault is the expression of violence through sex. Repercussions of sexual abuse can have serious negative effects on a survivor’s social and working activities. This book is planned towards that precise approach, by compiling scientific research of prominent scientists from all over the world. The emotional oppression of sexual assault, the physiological domain of sexual abuse, and the diverse attitudes in coping with sexual assault based on varied cultural backgrounds are analyzed. This book intends to ‘break the silence’ regarding sexual abuse by opening it up for debate and creating a space for changes in policy related to sexual abuse.

Psychology

Ava Bernice

ISBN: 978-1-63240-506-7
$149.95 US
2015
Book Size: 8.5”x11”
203pp./Colored
Hardback



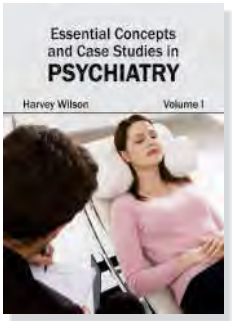
Understanding Addiction

This book is an attempt to understand addiction and its causes and search through history for certain trends that might help give an insight into this disorder. It also aims to delve into the mind of an addict to look at the triggers that start the process of addiction. It thus intends to look at addiction not only scientifically but also through social and cultural markers, including family and occupation that could help in its treatment.

Psychology

Harvey Wilson

ISBN: 978-1-63240-223-3
$149.95 US
2015
Book Size: 8.5”x11”
195pp./Colored
Hardback



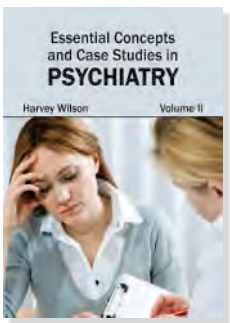
Essential Concepts and Case Studies in Psychiatry: Volume I

This book attempts to understand the foundation and need for such a field as Psychiatry in today’s world and takes a quick glance on its history and futuristic aspects. The studies and research material that makes treatment possible is constantly being revised and they have been presented in this book.

Psychology

Harvey Wilson

ISBN: 978-1-63240-224-0
$149.95 US
2015
Book Size: 8.5”x11”
200pp./Colored
Hardback



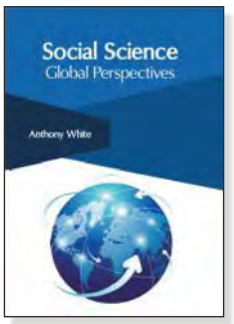
Essential Concepts and Case Studies in Psychiatry: Volume II

This book attempts to understand the foundation and need for such a field as Psychiatry in today’s world and takes a quick glance on its history and futuristic aspects. The studies and research material that makes treatment possible is constantly being revised and they have been presented in this book.

Social Sciences

Anthony White

ISBN: 978-1-63240-611-8
$132.95 US
2017
Book Size: 7”x10”
218pp./Colored
Hardback



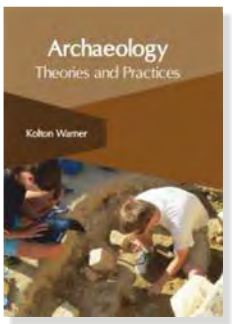
Social Science: Global Perspectives

This book provides comprehensive insights into human behavior and how they influence their immediate surroundings and the outside world. Social science is a primary academic discipline focused on the study of the society. It further branches out into various subfields like sociology, demography, political science, etc. This book attempts to understand the multiple branches that fall under the discipline of social science and how such concepts have practical applications. It also aims to present a global outlook to the readers of this book. Using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of social science as easy and informative as possible, for the readers.

Archaeology

Kolton Warner

ISBN: 978-1-63240-613-2
$144.95 US
2017
Book Size: 7”x10”
240pp./Colored
Hardback



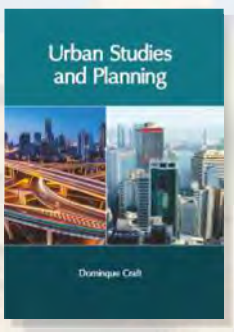
Archaeology: Theories and Practices

Archaeology is a dynamic field. It is often regarded as a subdiscipline of social science but it has emerged as an individual field of study in the recent times. The study of the ancient human past through excavation and analysis of materials is the prime focus of this book. This helps us in learning more about societies from a historical perspective and also the human race. The book presents the innovative theories and practices of archaeology in a detailed manner. From theories to research to practical applications, case studies related to all contemporary topics of relevance to archaeology have been included in this book. With its detailed analyses and data, this book will prove immensely beneficial to professionals and students involved in archaeology at various levels.

Urban Planning

Dominque Craft

ISBN: 978-1-63240-579-1
$144.95 US
2017
Book Size: 8.5”x11”
240pp./Colored
Hardback



Urban Studies and Planning

Urban studies and planning deals with the allocation and management of land as a public resource and the regulation of infrastructure in an urban environment. This book on urban studies and planning talks about urban design, urban problems and management and the structuring of urban life and livelihoods. This book studies, analyses and upholds the pillars of urban studies and planning and its utmost significance in modern times. It strives to provide a fair idea about this discipline and to help develop better understanding of the latest advances within this field. It includes contributions of experts from across the globe. This book will prove vital for experts and researchers in the field of urban geography, human development issues and urban restructuring. Through this book, an attempt has been made to further enlighten the readers about new concepts in this field.

Social Sciences

Anthony White

ISBN: 978-1-63240-123-6
$109.95 US
2015
Book Size: 6”x9”
234pp./Colored
Hardback

Cultural and Social Sciences

This book aims to encourage collaboration amidst sciences (both cultural and natural) and humanities, also including private and public sectors of society. It also encourages further innovation amidst the sciences. The topics covered in this book focus on education, social-cultural concerns, welfare and artistic grouped under sections: security & justice, multilingual settings, public knowledge and quality assessment. This groundbreaking book will be of interest to social scientists, students and researchers.

Social Sciences

Anthony White

ISBN: 978-1-63240-152-6
$119.95 US
2015
Book Size: 6”x9”
290pp./Colored
Hardback

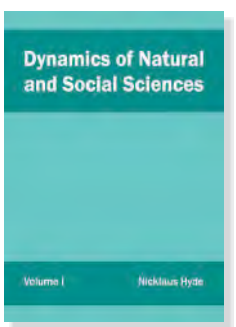
Diverse Issues in Cultural and Social Sciences

This book is a unique collection of topics related to social sciences. It aims to encourage collaboration amidst sciences (both cultural and natural) and humanities, also including private and public sectors of society. It also encourages further innovation amidst the sciences. The topics covered in this book focus on education, social-cultural concerns, welfare and artistic sectors which are organized under the following sections: science & interdisciplinarity, communities & their representations, citizenship participation and social sectors & integration. These sections reflect the common desire for direct responses in more efficient ways through interaction across societal structures.

Social Sciences

Nicklaus Hyde

ISBN: 978-1-63240-154-0
$149.95 US
2015
Book Size: 8.5”x11”
221pp./Colored
Hardback



Dynamics of Natural and Social Sciences: Volume I

This book explores, studies, analyses and explains correlation between completely unrelated fields. The tools are mathematical but the fields are practical. It is evident from these studies that these research and developments are necessary to understand the working of such complexities. The real life examples, matter of fact language and the dynamic explanation showcase the effort, enterprise, and enthusiasm of the authors.

Social Sciences

Nicklaus Hyde

ISBN: 978-1-63240-155-7
$149.95 US
2015
Book Size: 8.5”x11”
212pp./Colored
Hardback

Dynamics of Natural and Social Sciences: Volume II

This book explores, studies, analyses and explains correlation between completely unrelated fields. The tools are mathematical but the fields are practical. It is evident from these studies that these research and developments are necessary to understand the working of such complexities. The real life examples, matter of fact language and the dynamic explanation showcase the effort, enterprise, and enthusiasm of the authors.

Social Sciences

Sydney Moore

ISBN: 978-1-63240-488-6
$149.95 US
2015
Book Size: 8.5”x11”
211pp./Colored
Hardback

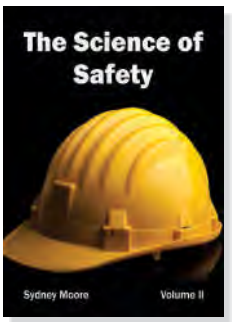
The Science of Safety: Volume I

This book covers in detail some first-hand case histories on accidents and disasters of special significance in the field of Safety Science and Technology. This book is a vital tool for all those who are interested in researching or studying about this area. It includes research works on contemporary trends in this field. Through this book, the reader will get an idea of all the latest progress and advanced concepts in this field.

Social Sciences

Sydney Moore

ISBN: 978-1-63240-489-3
$149.95 US
2015
Book Size: 8.5”x11”
220pp./Colored
Hardback



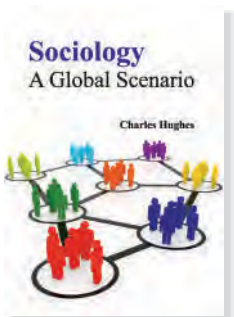
The Science of Safety: Volume II

This book covers in detail some first-hand case histories on accidents and disasters of special significance in the field of Safety Science and Technology. This book is a vital tool for all those who are interested in researching or studying about this area. It includes research works on contemporary trends in this field. Through this book, the reader will get an idea of all the latest progress and advanced concepts in this field.

Sociology

Charles Hughes

ISBN: 978-1-63240-469-5
$159.95 US
2015
Book Size: 6”x9”
430pp./Colored
Hardback



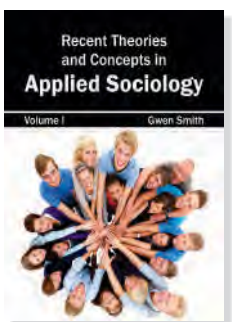
Sociology: A Global Scenario

Sociology is basically described as the analysis of the development, structure as well as functioning of the human society. This book provides a broader overview of sociology presenting the readers with a virtual journey through its realms. Topics covered in the book focus on the often overlooked aspects of sociology such as religious participation, education, zoological collections, food education etc. Also, topics of major concern like climate change, multiple modernities, organizational fraud, labor relations etc. have been covered in this book. It presents intriguing viewpoints and unique perspectives towards sociology to allow the readers to critically analyze the realities and trends which their social worlds incessantly create for them.

Applied Sociology

Gwen Smith

ISBN: 978-1-63240-449-7
$149.95 US
2015
Book Size: 8.5”x11”
217pp./Colored
Hardback



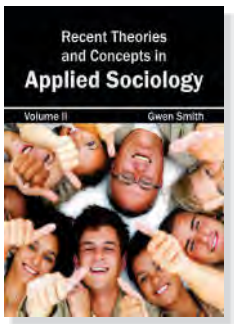
Recent Theories and Concepts in Applied Sociology: Volume I

Human behavior has been of a keen interest for researchers for centuries. Researches are happening across the globe to understand and comprehend the origin and development of society. Applied sociology operates at the local, societal and governmental level. The researches included in this book present study from all over the world, which operate at these levels. This book aims to provide advanced knowledge and concepts in field of sociology.

Applied Sociology

Gwen Smith

ISBN: 978-1-63240-450-3
$149.95 US
2015
Book Size: 8.5”x11”
215pp./Colored
Hardback



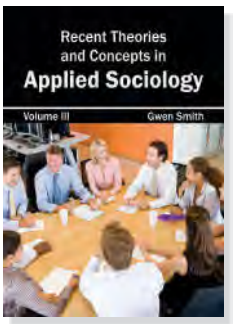
Recent Theories and Concepts in Applied Sociology: Volume II

Human behavior has been of a keen interest for researchers for centuries. Researches are happening across the globe to understand and comprehend the origin and development of society. Applied sociology operates at the local, societal and governmental level. The researches included in this book present study from all over the world, which operate at these levels. This book aims to provide advanced knowledge and concepts in field of sociology.

Applied Sociology

Gwen Smith

ISBN: 978-1-63240-451-0
$149.95 US
2015
Book Size: 8.5”x11”
214pp./Colored
Hardback



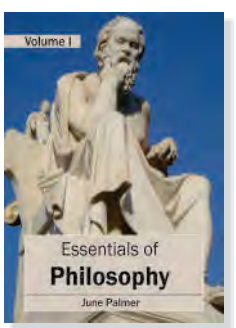
Recent Theories and Concepts in Applied Sociology: Volume III

Human behavior has been of a keen interest for researchers for centuries. Researches are happening across the globe to understand and comprehend the origin and development of society. Applied sociology operates at the local, societal and governmental level. The researches included in this book present study from all over the world, which operate at these levels. This book aims to provide advanced knowledge and concepts in field of sociology.

Philosophy

June Palmer

ISBN: 978-1-63240-232-5
$149.95 US
2015
Book Size: 8.5”x11”
220pp./Colored
Hardback



Essentials of Philosophy: Volume I

Philosophy comprises multiple areas of study. It is an understanding of society and the people who form it. In recent times, philosophy has undergone a major development due to constant researches being conducted across the globe. This book aims to provide advanced knowledge in this field. For all those who’re interested in philosophy, the book will prove to be an essential guide.

Philosophy

June Palmer

ISBN: 978-1-63240-233-2
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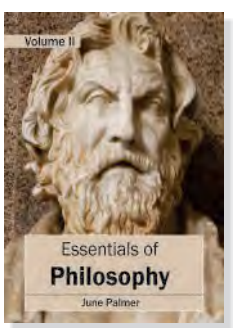

Essentials of Philosophy: Volume II

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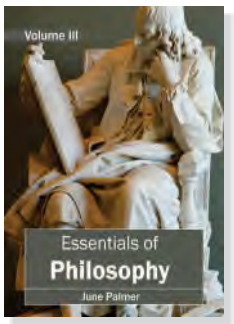

Essentials of Philosophy: Volume III

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Philosophy

June Palmer

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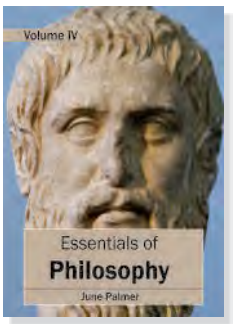

Essentials of Philosophy: Volume IV

Philosophy comprises multiple areas of study. It is an understanding of society and the people who form it. In recent times, philosophy has undergone a major development due to constant researches being conducted across the globe. This book aims to provide advanced knowledge in this field. For all those who’re interested in philosophy, the book will prove to be an essential guide.

Political Science

Grace Paisley

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Political Science

Political science is an engaging discipline which continues to attract a lot of attention from academicians and students alike. This book is an attempt to incorporate all the recent trends in this area of research. The researches in this book will provide insights to the reader about all the research models and developmental areas in political science.

History

Trevor Bowen

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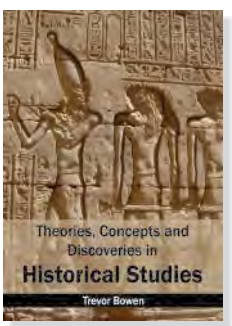
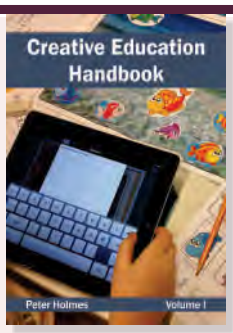


Theories, Concepts and Discoveries in Historical Studies

History has manifold knowledge and concepts integrated under every dimension. This book is an attempt to incorporate all the recent trends in this area of research. Through this book, the reader will get an idea of all the ongoing progress, especially with the advent of technological advances, in the field of History. This book will benefit students and researchers alike.

Education



Volume I

Peter Holmes

ISBN: 978-1-63240-117-5
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Creative Education Handbook

The education sector is transforming itself from a classical to a more up-to-date form. Education has extended itself beyond the classroom setting. A whole new set of modern tools and techniques have come into existence which support creative education. From theories to research to practical implementation and theoretical models related to all contemporary topics of relevance in the area of Creative Education have been included in this book.

Volume II

Peter Holmes

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Creative Education Handbook

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Volume III

Peter Holmes

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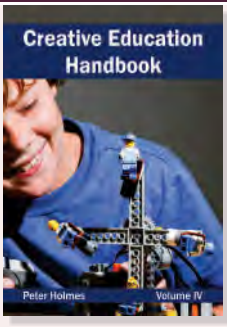

Volume IV

Peter Holmes

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Volume V

Peter Holmes

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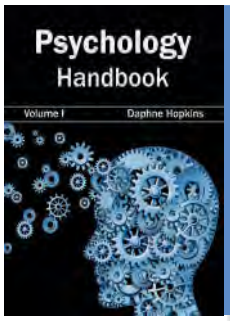
Psychology



Daphne Hopkins

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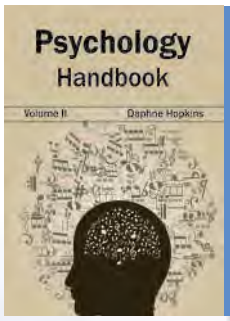
Psychology Handbook

Volume I

In order to study psychology, one requires a strong hold over concepts. This book is a good guide for those wanting to acquire advanced knowledge. Moreover, those interested in research will benefit from the numerous methodologies provided in this book. This book will further increase interest in the subject and provide useful insights of the field.



Daphne Hopkins

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Psychology Handbook

Volume II

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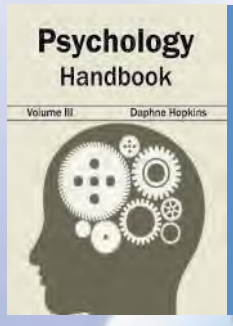

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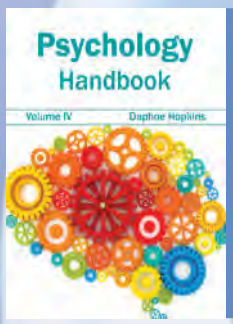

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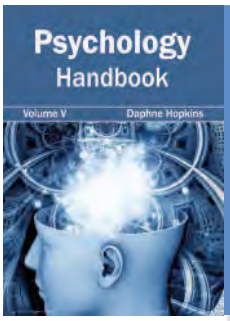
Psychology



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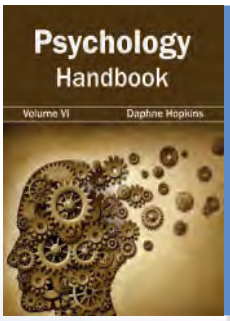

Daphne Hopkins

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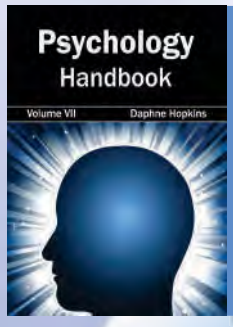
Psychology Handbook

Volume VI

In order to study psychology, one requires a strong hold over concepts. This book is a good guide for those wanting to acquire advanced knowledge. Moreover, those interested in research will benefit from the numerous methodologies provided in this book. This book will further increase interest in the subject and provide useful insights of the field.



Daphne Hopkins

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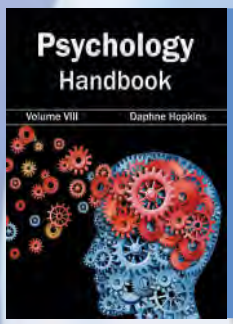
Psychology Handbook

Volume VII

In order to study psychology, one requires a strong hold over concepts. This book is a good guide for those wanting to acquire advanced knowledge. Moreover, those interested in research will benefit from the numerous methodologies provided in this book. This book will further increase interest in the subject and provide useful insights of the field.



Daphne Hopkins

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Psychology Handbook

Volume VIII

In order to study psychology, one requires a strong hold over concepts. This book is a good guide for those wanting to acquire advanced knowledge. Moreover, those interested in research will benefit from the numerous methodologies provided in this book. This book will further increase interest in the subject and provide useful insights of the field.

Education

Charlie Carson

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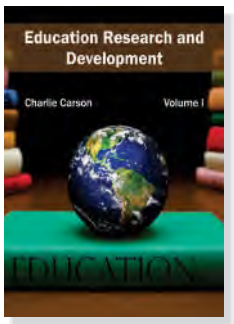

Education Research and Development: Volume I

This book is an attempt to study educational research in detail. It explains the different methodology, types of approach, and various purposes behind the research. Given its importance at present as well as continuous usefulness in future, it’s crucial that an understanding of the subject is created and developed, and that is exactly what the book endeavors to do.

Education

Charlie Carson

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Education Research and Development: Volume II

This book is an attempt to study educational research in detail. It explains the different methodology, types of approach, and various purposes behind the research. Given its importance at present as well as continuous usefulness in future, it’s crucial that an understanding of the subject is created and developed, and that is exactly what the book endeavors to do.

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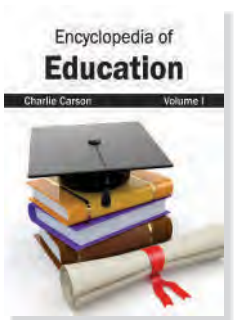

Encyclopedia of Education: Volume I

To understand the need to educate as many people one can, this book makes an effort to explain the educational trends around the world and how they are helping or harming the needs of society. Though the general individual has an idea of the need of education, there is more that needs to be done for promoting it. The data collated in this book will help in understanding the meaning behind true education and will elucidate the current concepts for experts and students.

Education

Charlie Carson

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Linguistics

Gail Benson

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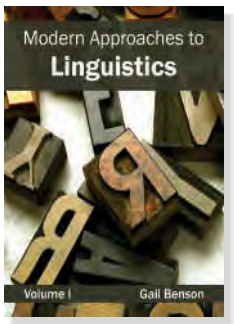

Modern Approaches to Linguistics: Volume I

Linguistics is an upcoming and dynamic field of study. It has undergone major developments in the last century. A detailed account of languages, their form and structure is now available to facilitate the understanding and development of languages. This has majorly aided the growth of this field. This book includes some of the recent work from across the world, on various topics related to modern linguistics.

Linguistics

Gail Benson

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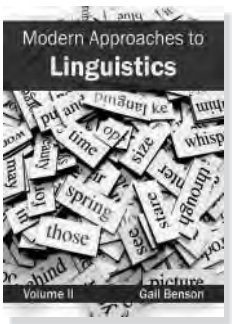

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Linguistics

Gail Benson

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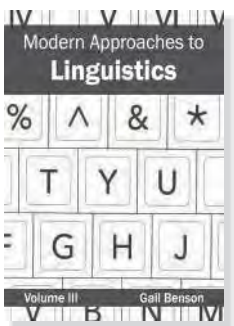

Modern Approaches to Linguistics: Volume III

Linguistics is an upcoming and dynamic field of study. It has undergone major developments in the last century. A detailed account of languages, their form and structure is now available to facilitate the understanding and development of languages. This has majorly aided the growth of this field. This book includes some of the recent work from across the world, on various topics related to modern linguistics.

Anthropology

Helen Mann

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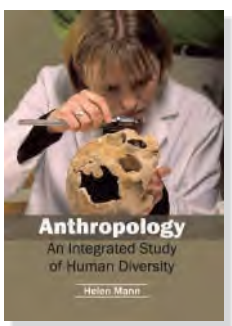

Anthropology: An Integrated Study of Human Diversity

Anthropology is basically referred to as the study of humankind. This book interlinks polyphony and anthropology: a combination that increases the researcher’s scope of views, the narrative existence of subjectivities, and the style of description. A complex account of psycho-cultural and biophysical case studies has been presented in this book. Digital culture and communication have been revolutionizing the conventional way of life, forms of knowledge, methods of working and connecting, and styles of writing. A researcher must pay attention to syncretisms, identities and ubiquities in order to understand and change cultural contexts. The book is a valuable source of information for researchers, students, scholars and any other reader interested in studying anthropology. The readers of this book will cross sociological, archaeological, philosophical, psychological, biological, anatomical, psychoanalytical, architectural and more such boundaries during the course of comprehending the diverse scope of anthropology through this book.

Anthropology

Gwen Smith

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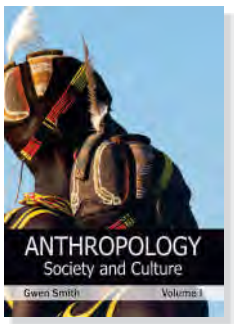

Anthropology: Society and Culture Volume I

Anthropology is a vast field of study. It has existed for a long time but its study has gained pace over the last few decades. The researches included in this book will prove to be an enlightening guide for the readers and broaden their scope of study. This book includes some of the recent work across the world in Anthropology, along with various methodologies and research models.

Anthropology

Gwen Smith

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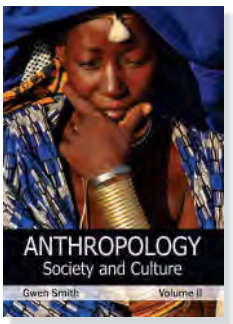

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Ethnography

Lillian Harper

ISBN: 978-1-63240-003-1
$119.95 US
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Book Size: 6”x9”
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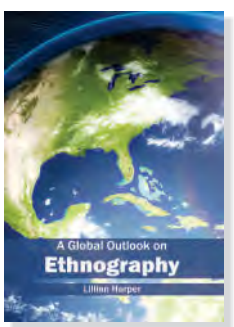
Hardback



A Global Outlook on Ethnography

This book provides a comprehensive introduction to ethnographic methods and its various applications. The book demonstrates the usage of ethnography as a method in a diversity of disciplines, including learning, administration, design, advertising, ecosystem and technical contexts, illustrating the worth of a qualitative approach to research design. The chapters focus on the use of conventional ethnographic techniques, such as captivation, inspection and conference, as well as inventive ethnographic techniques which have been influenced by the latest digital technology.

Archaeology

Gerald Kennedy

ISBN: 978-1-63240-029-1
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304pp./Colored
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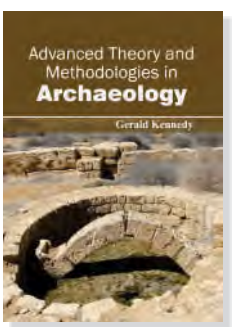

Advanced Theory and Methodologies in Archaeology

This book demonstrates the application of various novel practices that can be applied to archaeological sites. The various topics discussed within the book consist of new approaches regarding archaeological theory and methodologies; new applied methods to improve fieldwork; the utilization of geophysics in archaeological fieldwork; and the notion of sharing knowledge to increase our information about our heritage. Various researchers, scientists, authors have come together in compiling this book to boost our information regarding ancient populations through archaeological work. The intention of this work is to circulate new methodologies devised by experts to be utilized in archaeological fieldwork.

Population Study

Luke Chesterton

ISBN: 978-1-63240-054-3
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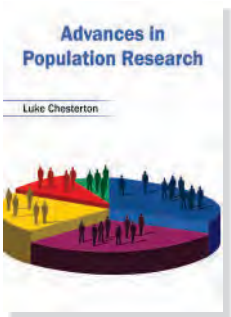

Advances in Population Research

This book explains upcoming aspects of population growth. It has been written by qualified and professional authors. This book seeks to explore the problems, reasons, and the impact of population growth on human life as well as earth. This book focuses on some of the very crucial aspects such as disease spread and control, problems related to female literacy and maternal mortality in developing countries. This book contains case studies which present untold truths from countries, which are struggling with population related problems.

Urban Studies

Dominque Craft

ISBN: 978-1-63240-510-4
$149.95 US
2015
Book Size: 8.5”x11”
213pp./Colored
Hardback

Urban Studies Handbook

Urban studies is an extensively multidisciplinary and vast field of study. It encompasses studies from economics, politics, sociology and many other fields, which makes it a wholesome discipline in itself. The book compiles the data and research that is available on urban studies and attempts to decipher their findings. The research that has recently been conducted across the globe is discussed and their applications in other fields as well as the economic ramifications are also delved into. Students and experts will find this book beneficial.

Urban Planning

Chayma Hamdani

ISBN: 978-1-63240-031-4
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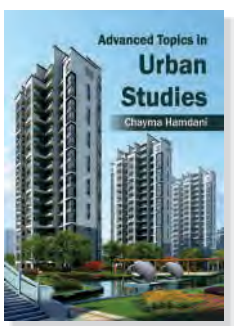

Advanced Topics in Urban Studies

For all those who’re interested in Urban Studies, this book will provide comprehensive knowledge. Contemporary innovative concepts and case studies revolving around Urban Studies have been presented in this book. All the ongoing trends in this field from all over the world have been incorporated here. Insights on recent studies and research methodologies can also be found in this book. Through this book, we hope to further enlighten our readers on this topic. This book is a must-read for all interested in this discipline.

Geographic Information Systems

Marina De Lima

ISBN: 978-1-63240-301-8
$149.95 US
2015
Book Size: 6”x9”
386pp./Colored
Hardback

Implementation of Geographic Information Systems

The book provides advanced information regarding the implementation of geographic information systems. In theoretical and professional spheres, Geographic Information Systems (GIS) hold special and crucial significance. The use of GIS has been on a steep rise in various professional fields. From civil engineers to spatial economists; from sociologists to urban planners, and criminal justice officers, the applications of GIS have found relevance in numerous professions. Hence, the understanding of Geographic Information Systems has become critical in academics and professional work. This book contains research findings that explain GIS’s applications in different subsets of social sciences. Along with compilations of numerous case studies conducted around the world, the book amalgamates the theories of GIS and their practical implementations in varied conditions. This book sheds light on the applications and usage of GIS in a broad array of fields like geospatial analysis and modeling, land use analysis, and infrastructure network analysis like transportation and water distribution. For the purpose of teaching, application and research, this book is extremely handy. The lucidity of this book adds substantially to the understanding of the expansive subject of GIS.

Physical Education

Luis Mason

ISBN: 978-1-63240-409-1
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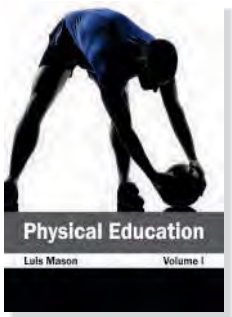
Hardback



Physical Education: Volume I

This book is an essential guide for all those who’re interested in both the theoretical and practical aspects of physical education. The researches included in this book will provide incredible insights to readers on latest topics. Written in a lucid language, with numerous illustrations and diagrams, this book is easily comprehensible. A number of latest researches have also been included to give the readers an up-to-date data of the field.

Physical Education

Luis Mason

ISBN: 978-1-63240-410-7
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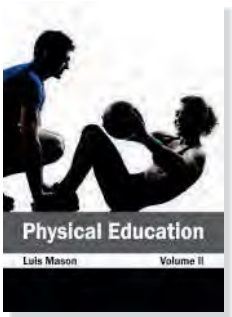

Physical Education: Volume II

This book is an essential guide for all those who’re interested in both the theoretical and practical aspects of physical education. The researches included in this book will provide incredible insights to readers on latest topics. Written in a lucid language, with numerous illustrations and diagrams, this book is easily comprehensible. A number of latest researches have also been included to give the readers an up-to-date data of the field.

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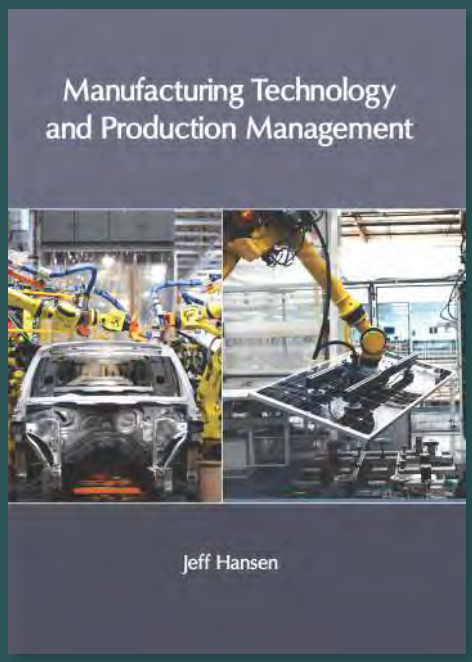
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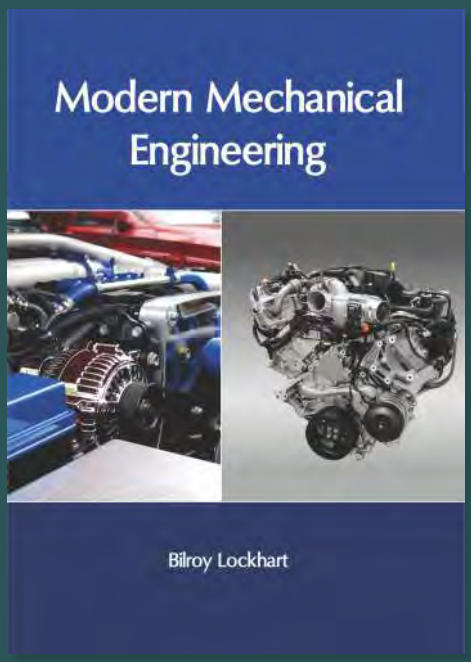
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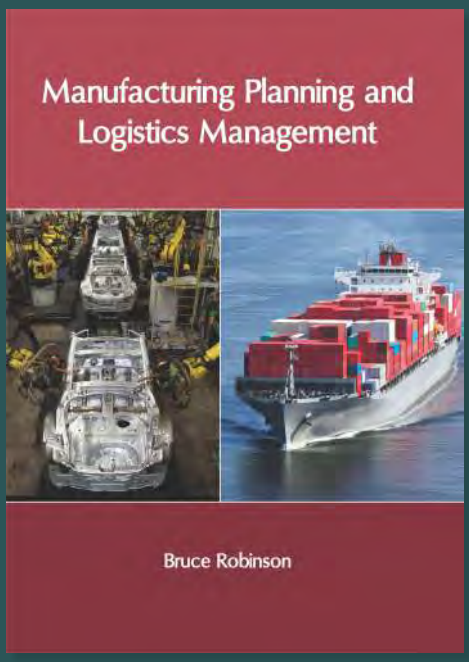
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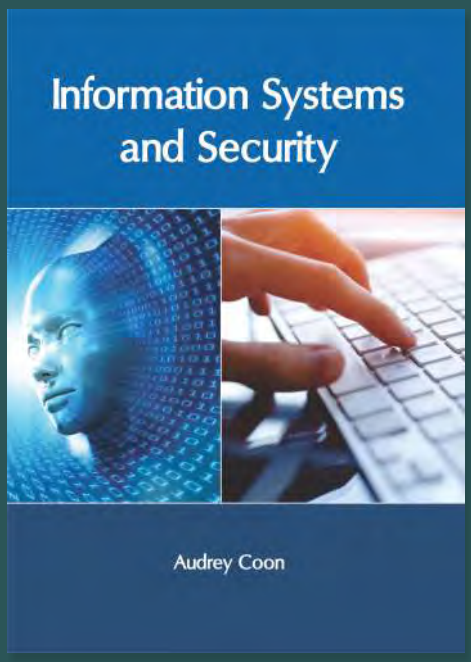
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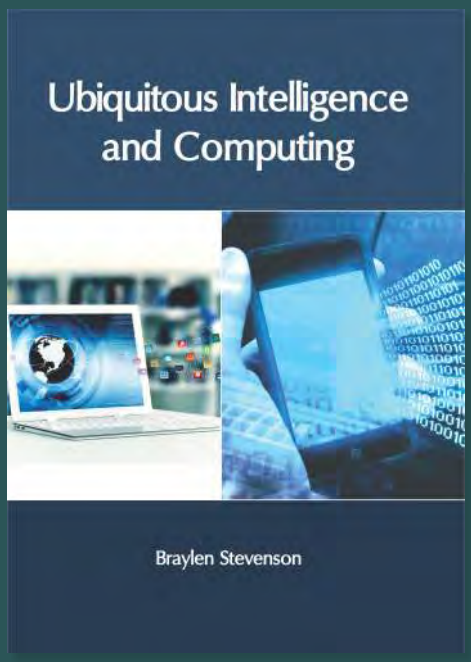
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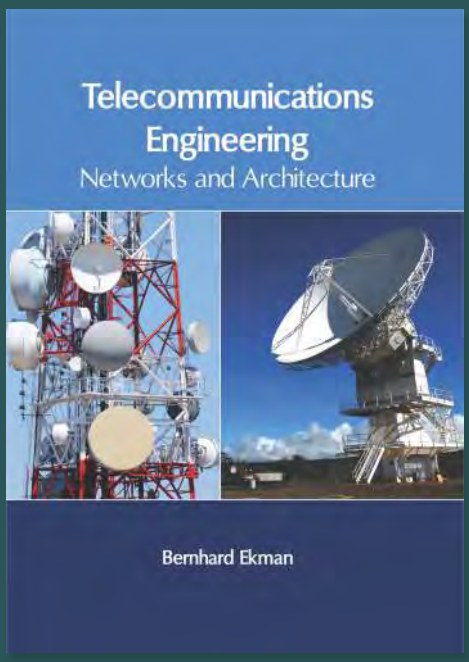
Braylen Stevenson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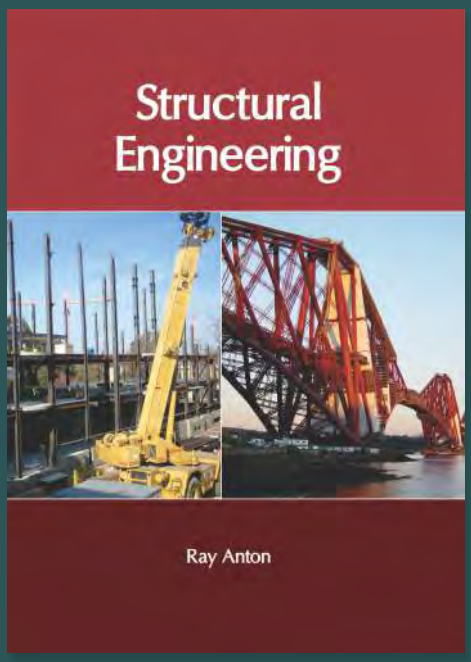
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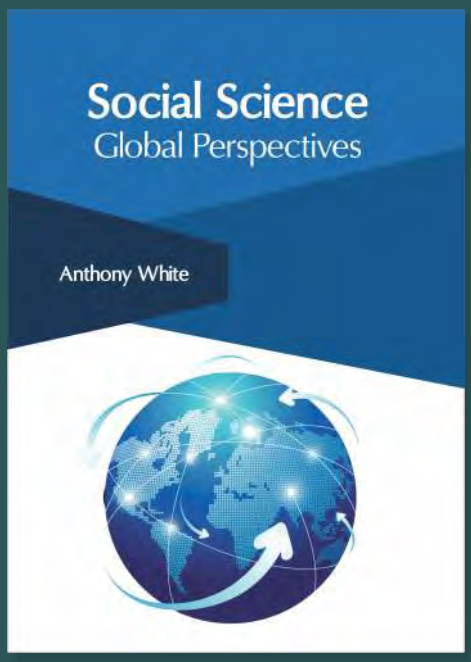
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ISBN 978-1-63240-639-2
9 781632 406392