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More than 8 million students are now using MyLab and Mastering products from Pearson. Both programs consistently make a positive impact on student success in higher education instruction. The Pearson MyLab and Mastering programs can be implemented in any environment, including lab-based, hybrid, distance learning, and traditional.

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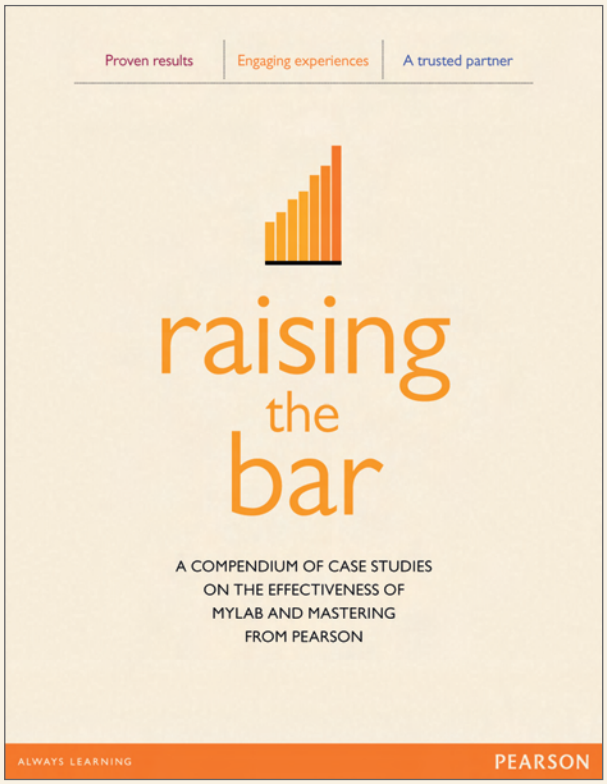

"Raising the Bar: The Power of Pearson's MyLab and Mastering Programs-Case Study Results."

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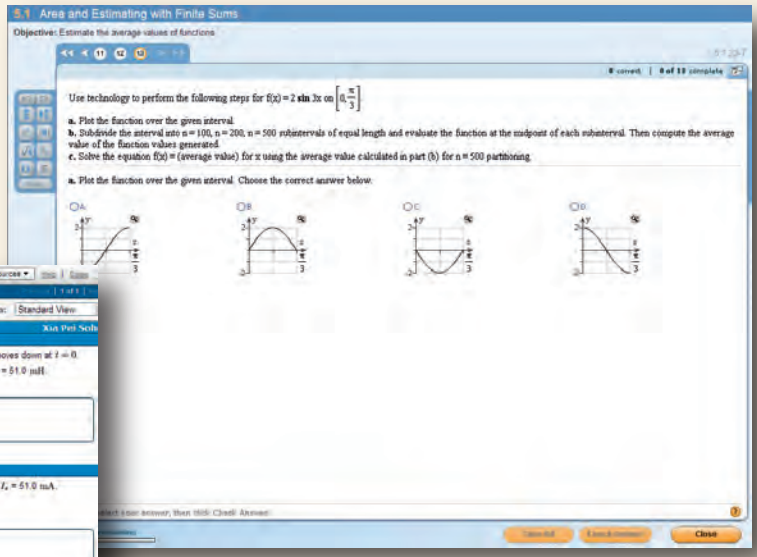
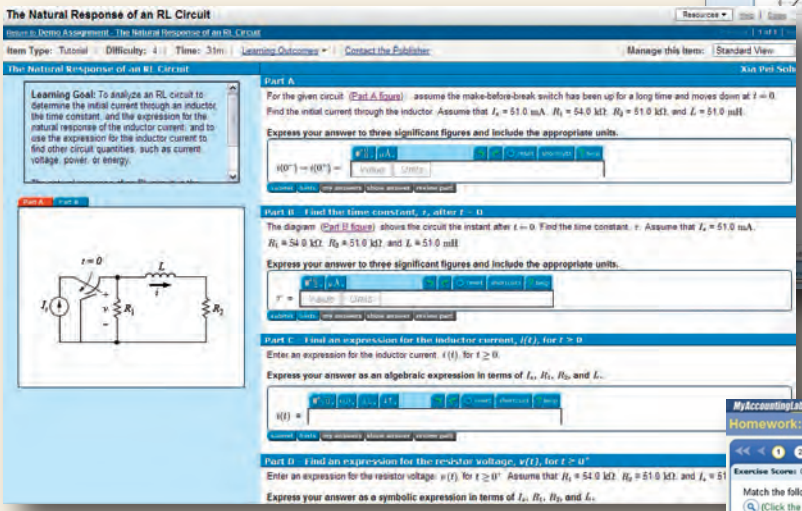
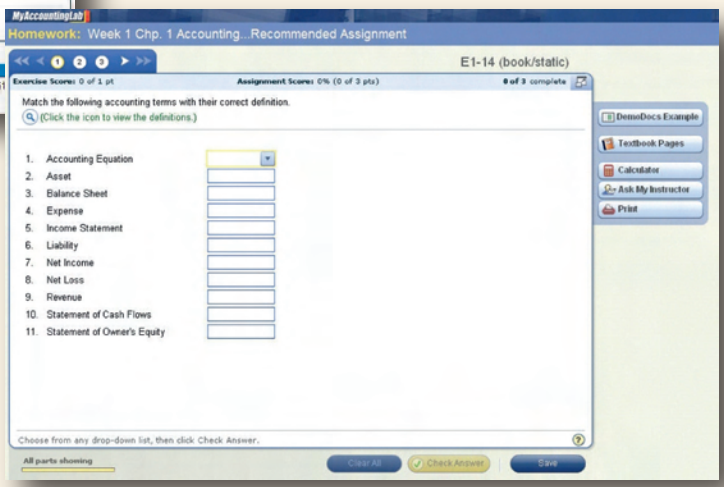
Our solutions are targeted at lecturers who teach introductory Accounting, Maths, Finance, Physics, Chemistry, Statistics or IT. One product which is proven to produce better grades for students is MyMathLab.





Homework and tutorial exercises allow students to practice on their own time anywhere!



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Textbook Solutions

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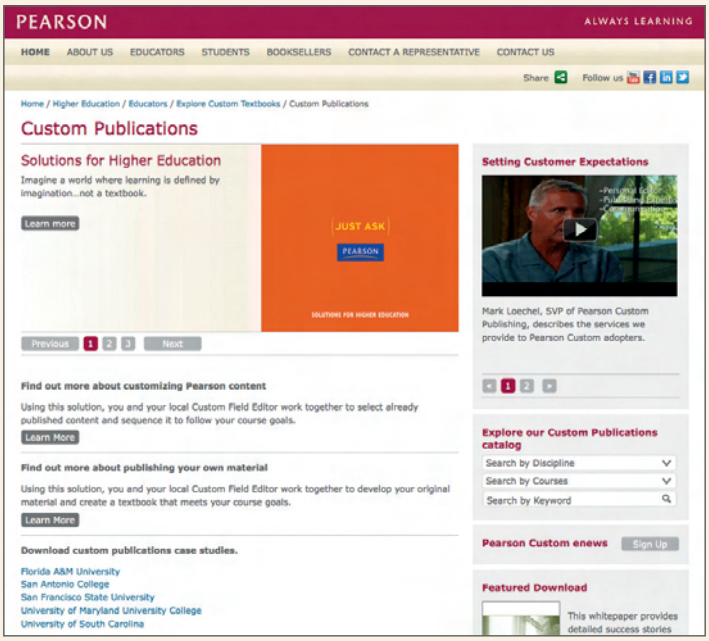

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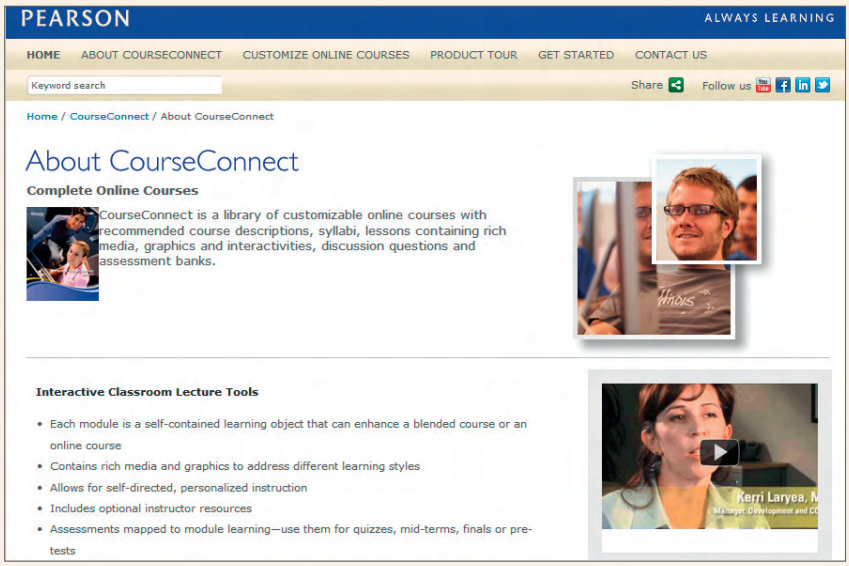

Contact your local Custom Acquisitions Editor or Education Consultant to know more about Custom Media solutions for your course.

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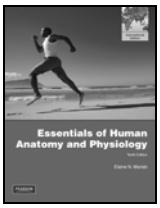

Essentials of Human Anatomy & Physiology, 10/e

Elaine N. Marieb, Holyoke Community College

ISBN-10: 0321735528
ISBN-13: 9780321735522
656pp ©2012 Paper

Basic Approach

Now in its **Tenth Edition, Essentials of Human Anatomy & Physiology** continues to set the standard for short-course A&P texts. Its dramatically updated art program, more streamlined presentation of material, and integration of chapter objectives will help allied health students better visualize and understand the structure and function of the human body. Elaine Marieb's clear and friendly writing style emphasizes the relevance of anatomy & physiology to students' lives and future careers. The book clarifies concepts, defines key terms, and offers just the right balance of anatomy, physiology, and clinical coverage to make the content complete without being overwhelming.

While many authors merely condense a two-semester text to meet a one-semester need, Elaine Marieb wrote this book specifically for the one-semester course and continues to carefully select a range of material that proves just right for the shorter course. New information on hot topics like the HPV Vaccine, Infantile Polycystic Kidney disease, and Sudden Infant Death Syndrome (SIDS) draws students into the material, while a flexible topic structure allows instructors to choose a chapter sequence to meet virtually any need.

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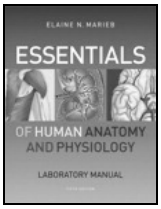

Essentials of Human Anatomy & Physiology Laboratory Manual, 5/e

Elaine N. Marieb, Holyoke Community College

ISBN-10: 0321750012
ISBN-13: 9780321750013
384pp ©2012 Paper

Basic Approach

This brief, hands-on lab manual is built specifically to accommodate the fast pace of one-semester A&P labs. It complements any one-semester A&P text and provides 27 concise, activity-based exercises. Each lab includes a new pre-lab quiz, learning objectives, summaries of key concepts, a variety of activities, and an integrated review sheet. The manual also includes a full-color Histology Atlas with 55 photomicrographs.

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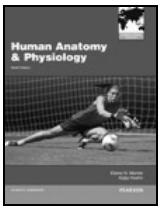
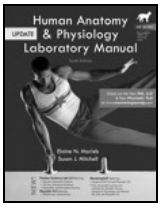


Human Anatomy & Physiology 9/e

Elaine N. Marieb, Holyoke Community College
Katja N. Hoehn, Mount Royal College

ISBN-10: 0321799178
ISBN-13: 9780321799173
1264pp ©2013 Paper

Basic Approach
With the **Ninth Edition** of **Human Anatomy & Physiology,** trusted authors Elaine N. Marieb and Katja Hoehn have produced the most accessible, comprehensive, up-to-date and visually stunning anatomy & physiology textbook on the market. Marieb draws on her career as an A&P professor and her experience completing her nursing education; Hoehn relies on her medical education and award-winning classroom instruction—together, they explain anatomy & physiology concepts and processes in a meaningful and memorable way.
In the most extensive revision to date–the Ninth Edition presents information in smaller and more digestible bites, making it easier to read and navigate.



Human Anatomy & Physiology Laboratory Manual with MasteringA&P®, Cat Version, Update, 10/e

Elaine N. Marieb, Holyoke Community College
Susan J. Mitchell, Onondaga Community College

ISBN-10: 0321735285
ISBN-13: 9780321735287
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Basic Approach
Intended for use with any A&P textbook, this best-selling laboratory manual features a wide variety of exercises and activities designed to meet the needs of any 2-semester anatomy & physiology laboratory course. Known for its thorough, clearly-written exercises, full-color art, and tear-out review sheets, this lab manual gives students a hands-on laboratory experience. This lab manual is available in three versions: Cat, Main, and Pig.
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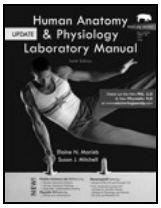

Human Anatomy & Physiology Laboratory Manual with MasteringA&P®, Fetal Pig Version, Update, 10/e

Elaine N. Marieb, Holyoke Community College
Susan J. Mitchell, Onondaga Community College

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Basic Approach

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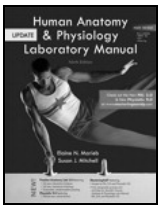

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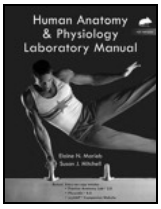

Human Anatomy & Physiology Laboratory Manual with MasteringA&P®, Rat Version, 1/e

Elaine N. Marieb
Susan J. Mitchell

ISBN-10: 0321821475
ISBN-13: 9780321821478
960pp ©2012 Paper Package

Basic Approach

Intended for use with any A&P textbook, this best-selling laboratory manual features a wide variety of exercises and activities designed to meet the needs of any 2-semester anatomy & physiology laboratory course. Known for its thorough, clearly-written exercises, full-color art, and tear-out review sheets, this lab manual gives students a hands-on laboratory experience. This lab manual is available in four versions: Cat, Main, Pig, and Rat.
This updated Laboratory Manual includes access to the new Practice Anatomy Lab™ 3.0 and new PhysioEx™ 9.0. It is also accompanied by MasteringA&P™, an online learning and assessment system proven to help students learn. In addition to providing instructors and students with access to PAL 3.0 and PhysioEx 9.0, MasteringA&P for Marieb's HAP Lab Manual also features assignable pre-lab and post-lab quizzes for every lab exercise, art labeling activities, and assignable assessments for PAL 3.0 and PhysioEx 9.0.

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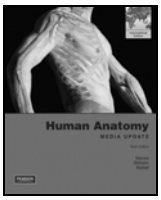

Human Anatomy, Media Update, 6/e

Elaine N. Marieb, Holyoke Community College
Patricia Brady Wilhelm, Community College of Rhode Island, Warwick
Jon B. Mallatt, Washington State University

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ISBN-13: 9780321747310
880pp ©2012 Paper

Basic Approach

Human Anatomy, Media Update, Sixth Edition builds upon the clear and concise explanations of the best-selling Fifth Edition with a dramatically improved art and photo program, clearer explanations and readability, and more integrated clinical coverage. Recognized for helping students establish the framework needed for understanding how anatomical structure relates to function, the text's engaging descriptions now benefit from a brand-new art program that features vibrant, saturated colors as well as new side-by-side cadaver photos. New Focus figures have been added to help students grasp the most difficult topics in anatomy.

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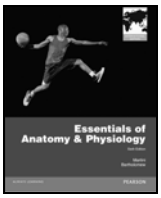

Essentials of Anatomy & Physiology, 6/e

Frederic H. Martini, University of Hawaii
Edwin F. Bartholomew

ISBN-10: 0321798627
ISBN-13: 9780321798626
808pp ©2013 Paper

Basic Approach

Celebrated for its precise and flawless illustrations, time-saving navigation and study tools, and engaging clinical content, **Essentials of Anatomy & Physiology** is crafted especially for students with no prior knowledge of anatomy & physiology and little science background. The **Sixth Edition** is the most readable, visually effective, and career-motivating edition to date. New Spotlight figures integrate brief text and visuals for easy reading. New Career Paths, based on interviews with people working in key healthcare occupations, bring students in on the everyday work world of healthcare practitioners with a goal toward informing and motivating them about their own future healthcare careers. This book is geared toward students enrolled in a one-semester A&P course.

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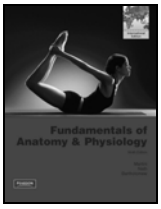

Fundamentals of Anatomy & Physiology, 9/e

Frederic H. Martini, University of Hawaii
Judi L. Nath, Lourdes College
Edwin F. Bartholomew

ISBN-10: 0321735536
ISBN-13:9780321735539
1264pp ©2012 Paper

Basic Approach
Frederic ("Ric") Martini, joined by accomplished educator, award-winning teacher, and co-author Judi Nath, has substantially revised **Fundamentals of Anatomy & Physiology** to make the **Ninth Edition** the most readable and visually effective edition to date. New Spotlight figures integrate brief text and visuals for easy reading.

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1. An Introduction to Anatomy and Physiology
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Visual Essentials of Anatomy & Physiology, 1/e

Frederic H. Martini, University of Hawaii
William C. Ober, Washington and Lee University
Edwin F. Bartholomew
Judi L. Nath, Lourdes College

ISBN-10: 0321798643
ISBN-13: 9780321798640
800pp ©2013 Paper

Basic Approach
Visual Essentials of Anatomy & Physiology combines a visual approach with a modular organization to deliver an easy-to-use and time-efficient book that uniquely meets the needs of today's students—without sacrificing the coverage of A&P topics required for careers in nursing and other allied health professions. This book is geared toward students enrolled in a one–semester A&P course.

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1. An Introduction to Anatomy and Physiology
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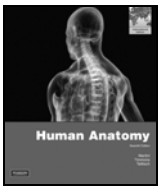

Human Anatomy, 7/e

Frederic H. Martini, University of Hawaii
Michael J. Timmons, Moraine Valley Community College
Robert B. Tallitsch, Augustana College

ISBN-10: 0321732669
ISBN-13: 9780321732668
904pp ©2012 Paper

Basic Approach
Celebrated for its atlas-style format, appropriately detailed anatomical illustrations, and exceptionally clear photographs of tissues and cadavers, the **Seventh Edition** of the award-winning **Human Anatomy** presents practical applications of anatomy and physiology in a highly visual format. Select Clinical Notes feature dynamic layouts that integrate text with visuals for easy reading. Clinical Cases relate clinical stories that integrate text with patient photos and diagnostic images for applied learning. Time-saving study tools, including end-of-chapter practice and review, help students arrive at a complete understanding of human anatomy.

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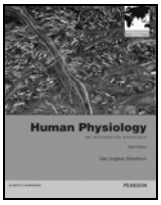

Human Physiology: An Integrated Approach, 6/e

Dee Unglaub Silverthorn, University of Texas, Austin

ISBN-10: 0321798600
ISBN-13: 9780321798602
992pp ©2013 Paper

Basic Approach

Human Physiology: An Integrated Approach broke ground with its thorough coverage of molecular physiology seamlessly integrated into a traditional homeostasis-based systems approach. The newly revised **Sixth Edition** introduces a major reorganization of the early chapters to provide the best foundation for the course and new art features that streamline review and essential topics so that students can access them more easily on an as-needed basis.

Recognized as an extraordinary educator and active learning enthusiast, Dr. Silverthorn incorporates time-tested classroom techniques throughout the book and presents thorough, up-to-date coverage of new scientific discoveries, biotechnology techniques, and treatments of disorders. Dr. Silverthorn also co-authored the accompanying Student Workbook and Instructor Manual, ensuring that these ancillaries reinforce the pedagogical approach of the book.

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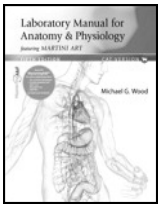

Laboratory Manual for Anatomy & Physiology featuring Martini Art with MasteringA&P®, Cat Version, 5/e

Michael G. Wood, Del Mar College

ISBN-10: 0321807650
ISBN-13: 9780321807656
864pp ©2013 Spiral Bound

Basic Approach

Known for its carefully guided lab activities, accurate art and photo program, and unique practice and review tools that encourage students to draw, label, apply clinical content, and think critically, **Wood, Laboratory Manual for Anatomy & Physiology featuring Martini Art with MasteringA&P®, Cat Version, Fifth Edition** offers a comprehensive approach to the two-semester A&P laboratory course. The stunning, full-color illustrations are adapted from **Martini/Nath/Bartholomew, Fundamentals of Anatomy & Physiology, Ninth Edition,** making this lab manual a perfect companion to that textbook for instructors who want lab manual art to match textbook art. The use of the Martini art also makes this lab manual a strong companion to **Martini/Ober/Nath, Visual Anatomy & Physiology.** This manual can also be used with any other two-semester A&P textbook for those instructors who want students in the lab to see different art from what is in their textbook. This lab manual is available in three versions: Main, Cat, and Pig. The Cat and Pig versions are identical to the Main version but also include nine cat or pig dissection exercises at the back of the lab manual.

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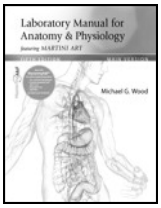

Laboratory Manual for Anatomy & Physiology featuring Martini Art with MasteringA&P®, Main Version, 5/e

Michael G. Wood, Del Mar College

ISBN-10: 0321794184
ISBN-13: 9780321794185
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Basic Approach

Known for its carefully guided lab activities, accurate art and photo program, and unique practice and review tools that encourage students to draw, label, apply clinical content, and think critically, **Wood, Laboratory Manual for Anatomy & Physiology featuring Martini Art with MasteringA&P®, Main Version, Fifth Edition** offers a comprehensive approach to the two-semester A&P laboratory course. The stunning, full-color illustrations are adapted from **Martini/Nath/Bartholomew, Fundamentals of Anatomy & Physiology, Ninth Edition,** making this lab manual a perfect companion to that textbook for instructors who want lab manual art to match textbook art. The use of the Martini art also makes this lab manual a strong companion to **Martini/Ober/Nath, Visual Anatomy & Physiology.** This manual can also be used with any other two-semester A&P textbook for

those instructors who want students in the lab to see different art from what is in their textbook. This lab manual is available in three versions: Main, Cat, and Pig. The Cat and Pig versions are identical to the Main version but also include nine cat or pig dissection exercises at the back of the lab manual.

The **Fifth Edition** features more visually effective art and abundant opportunities for student practice both in the manual and online. For the first time, this manual comes with **MasteringA&P**. The new Practice Anatomy Lab™ (PAL™) 3.0 virtual anatomy program and the new PhysioEx™ 9.0 physiology lab simulation program– both housed within MasteringA&P– give students valuable coaching and practice.

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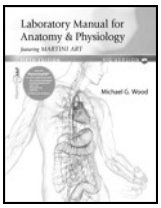

Laboratory Manual for Anatomy & Physiology featuring Martini Art with MasteringA&P®, Pig Version, 5/e

Michael G. Wood, Del Mar College

ISBN-10: 0321796047
ISBN-13: 9780321796042
848pp ©2013 Spiral Bound

Basic Approach

Known for its carefully guided lab activities, accurate art and photo program, and unique practice and review tools that encourage students to draw, label, apply clinical content, and think critically, **Wood, Laboratory Manual for Anatomy & Physiology featuring Martini Art with MasteringA&P®, Pig Version, Fifth Edition** offers a comprehensive approach to the two-semester A&P laboratory course. The stunning, full-color illustrations are adapted from **Martini/Nath/Bartholomew, Fundamentals of Anatomy & Physiology, Ninth Edition,** making this lab manual a perfect companion to that textbook for instructors who want lab manual art to match textbook art. The use of the Martini art also makes this lab manual a strong companion to **Martini/Ober/Nath, Visual Anatomy & Physiology.** This manual can also be used with any other two-semester A&P textbook for those instructors who want students in the lab to see different art from what is in their textbook. This lab manual

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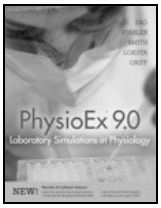
9. Pig Reproductive System



PhysioEx™ 9.0: Laboratory Simulations in Physiology, 1/e

Peter Zao, North Idaho College
Timothy Stabler, Indiana University Northwest
Lori A Smith, American River College
Andrew Lokuta, University of Wisconsin - Madison
Edwin Griff, University of Cincinnati

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ISBN-13: 9780321815576
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Basic Approach

PhysioEx™ 9.0: Laboratory Simulations in Physiology is an easy-to-use laboratory simulation software and lab manual that consists of 12 exercises containing 66 physiology lab activities that can be used to supplement or substitute wet labs. PhysioEx allows students to repeat labs as often as they like, perform experiments without harming live animals, and conduct experiments that are difficult to perform in a wet lab environment because of time, cost, or safety concerns.

The PhysioEx 9.0 software features a **brand new online format** with step-by-step instructions and assessment so that everything students need to do and complete their lab is located in one convenient place. **New Pre-lab and Post-lab Quizzes** for each activity and **Stop & Think** and **Predict Questions** within the steps of each experiment help students make the connection between the activities and the physiological concepts they demonstrate. Student answers to all of these questions and the results from the experiments can be saved in a PDF **Lab Report**. The **PhysioEx 9.0 CD-ROM** comes packaged with every new copy of the PhysioEx 9.0 lab manual.

Note: For PhysioEx 9.0, there is one version only of PhysioEx. We have combined the previous A&P and Physiology versions of PhysioEx into one product.

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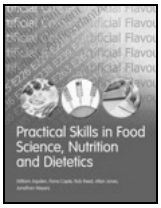

Practical Skills in Food Science, Nutrition and Dietetics, 1/e

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Rob Reed, University of Central Queensland
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Allan Jones, University of Dundee

ISBN-10:1408223090
ISBN-13: 9781408223093
532pp ©2012 Paper

Basic Approach

If you are teaching food science, nutrition and dietetics, or a related course, then this book will be an indispensable companion for your students entire degree programme. This 'one-stop' text will guide your students through the wide range of practical, analytical and data handling skills that they will need during their studies. It will also give them a solid grounding in wider transferable skills such as teamwork, using information technology, communicating information and study skills.

Practical Skills in Food Science, Nutrition and Dietetics provides an easy-to-read guide to help students develop the skills they need to succeed. It explains the essential elements of practical techniques and procedures in a step-by-step manner to help students understand their application in the context of food science, nutrition and dietetics.

This text's unique and comprehensive coverage includes: general advice on practical work; measuring techniques; statistical techniques; analysis and presentation of data; and study skills.

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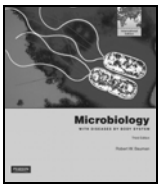

Microbiology with Diseases by Body System, 3/e

Robert W. Bauman, Amarillo College

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ISBN-13: 9780321732675
928pp ©2012 Paper

Basic Approach

Designed for pre-nursing and allied health students (and also mixed-majors courses), **Microbiology with Diseases by Body System, Third Edition** retains the hallmark art program and clear writing style that have made Robert Bauman's book a success. This **Third Edition** features compelling clinical content related to students' future healthcare careers and abundant opportunities for applied student practice. Chapter-opening Clinical Cases, Emerging Diseases boxes, and Clinical Applications boxes introduce students to real-world clinical situations. Student comprehension is ensured with end-of-chapter practice that encompasses applied, visual, and conceptual understanding.

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24. Microbial Diseases of the Urinary and Reproductive Systems
25. Applied and Environmental Microbiology

Biology: Science for Life with Physiology, 4/e

Colleen Belk, University of Minnesota, Duluth
Virginia Borden Maier, St. John Fisher College

ISBN-10: 0321807103
ISBN-13: 9780321807106
720pp ©2013 Paper

Basic Approach
Coleen Belk and Virginia Borden Maier have helped students demystify biology for nearly twenty years in the classroom and nearly ten years with their book, **Biology: Science for Life with Physiology.** In the new Fourth Edition, they continue to use stories and current issues, such as discussion of cancer to teach cell division, to connect biology to student's lives. Learning Outcomes are new to this edition and integrated within the book to help professors guide students' reading and to help students assess their understanding of biology.
A new Chapter 3, "Is It Possible to Supplement Your Way to Better Health? Nutrients and Membrane Transport," offers an engaging storyline and focused coverage on micro- and macro-nutrients, antioxidants, passive and active transport, and exocytosis and endocytosis.

For instructors who do not cover Animal Structure and Function and Plant Biology, an alternate edition of this book, **Biology: Science for Life,** is also available.

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1. Can Science Cure the Common Cold? Introduction to the Scientific Method
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V. Animal Structure and Function
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18. Clearing the Air–Respiratory, Cardiovascular, and Urinary Systems
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22. Attention Deficit Disorder–Brain Structure and Function
VI. Plant Biology
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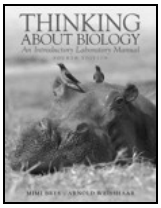

Thinking About Biology: An Introductory Laboratory Manual, 4/e

Mimi Bres
Arnold Weisshaar

ISBN-10: 0321791959
ISBN-13: 9780321791955
456pp ©2013 Paper

Basic Approach
For one-semester, non-majors introductory biology laboratory courses with a human focus.
This manual offers a unique, extensively class-tested approach to introductory biology laboratory. A full range of activities show how basic biological concepts can be applied to the world around us.
This helps students to:

1. gain practical experience that will help them understand lecture concepts
2. acquire the basic knowledge needed to make informed decisions about biological questions that arise in everyday life
3. develop the problem-solving skills that will lead to success in school and in a competitive job market, and
4. learn to work effectively and productively as a member of a team.

The **Fourth Edition** features many new and revised activities based on feedback from hundreds of students and faculty reviewers.

Table of Contents

1. Introduction to the Scientific Method
2. Windows to a Microscopic World
3. Functions and Properties of Cells
4. Movement of Molecules Across Cell Membranes
5. Investigating Cellular Respiration
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7. Organic Molecules and Nutrition
8. Factors that Affect Enzyme Activity
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18. Introduction to Forensic Biology
19. Biotechnology: DNA Analysis
20. Using Biotechnology to Assess Ecosystem Damage
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22. Population Ecology

Environment and You, The, 1/e

Norman Christensen

ISBN-10: 0321827341
ISBN-13: 9780321827340
720pp ©2013 Paper

Basic Approach

Welcome to a new introductory environmental science book that offers students a reliable science foundation and inspires them to connect the course to the choices they can make as citizens.

It's about science—informed by decades of careful research by generations of scientists and presented in a manner non-science majors understand.

It's about solutions–offering a fresh alternative to "doom and gloom" by emphasizing problem solving and scalable solutions so students can make more informed choices on actions to support the well-being of humans and the planet.

It's about today's students–making navigating information, focusing, and learning easier for a wide range of students.

It's written by a world-class scientist and dedicated teacher–author Norm Christensen was elected Fellow of the American Association for the Advancement of Science, is founding dean of the Nicholas School of the Environment, and has served as president of the Ecological Society of America. He is also a gifted teacher who has taught the introductory environmental science course for over 15 years and won a Distinguished Teaching Award.

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1. Environmental Science as a Human Endeavor
2. Environmental Ethics, Economics and Policy
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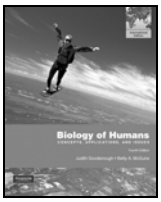

Biology of Humans: Concepts, Applications, and Issues, 4/e

Judith Goodenough, University of Massachusetts, Amherst
Betty A. McGuire, Cornell University

ISBN-10: 0321709799
ISBN-13: 9780321709790
624pp ©2012 Paper

Basic Approach
Known for its unique "Special Topic" chapters and emphasis on everyday health concerns, the **Fourth Edition** of ***Biology of Humans: Concepts, Applications, and Issues*** continues to personalize the study of human biology with a conversational writing style, stunning art, abundant applications, and tools to help students develop critical-thinking skills. The authors give students a practical and friendly introduction for understanding how their bodies work and for preparing them to navigate today's world of rapidly expanding—and shifting—health information.

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1. Humans in the World of Biology
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3. The Cell
4. Body Organization and Homeostasis
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15a. Special Topic: Nutrition and Weight Control
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17. Reproductive Systems
17a. Special Topic: Sexually Transmitted Diseases and AIDS
18. Development Through Life
18a. Special Topic: Autism Spectrum Disorders
19. Chromosomes and Cell Division
19a. Special Topic: Stem Cells–A Repair Kit for the Body
20. Genetics and Human Inheritance
21. DNA and Biotechnology
21a. Special Topic: Cancer
22. Evolution and Our Heritage
23. Ecology, The Environment, and Us
24. Human Populations, Limited Resources, and Pollution

Explorations in Basic Biology, 12/e

Stanley E Gunstream

ISBN-10: 0321722949
ISBN-13: 9780321722942
544pp ©2012 Paper

Basic Approach
Explorations in Basic Biology is a self-contained laboratory manual designed for one- or two-semester introductory biology courses for non-biology and mixed biology majors. The exercises are appropriate for three-hour laboratory sessions, but are also adaptable to a two-hour laboratory format.
Ideal for students with little hands-on science laboratory experience, this student-friendly text provides clear background information and directions for conducting laboratory activities. Students not only learn basic biological information but also gain experience practicing laboratory techniques.
The Twelfth Edition has been updated with new content, including several new or modified figures and procedures

that have been clarified where necessary to facilitate student learning, a new Appendix, and guidelines for writing a scientific paper. Several exercises also feature significant improvements.

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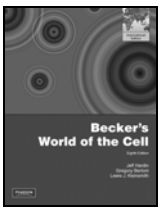

Becker's World of the Cell, 8/e

Jeff Hardin, University of Wisconsin, Madison
Gregory Paul Bertoni, Columbus State Community College
Lewis J. Kleinsmith, University of Michigan

ISBN-10: 0321709780
ISBN-13: 9780321709783
912pp ©2012 Paper

Basic Approach
Widely praised for its strong biochemistry coverage, **Becker's World of the Cell, Eighth Edition,** provides a clear, up-to-date introduction to cell biology concepts, processes, and applications. Informed by many years of teaching the introductory cell biology course, the authors have added new emphasis on modern genetic/genomic/proteomic approaches to cell biology while using clear language to ensure that students comprehend the material. **Becker's World of the Cell** provides accessible and authoritative descriptions of all major principles, as well as unique scientific insights into visualization and applications of cell biology. Media icons within the text and figures call attention to an enhanced media selection—350 up-to-date animations, videos, and activities—that helps students visualize concepts.

Table of Contents
1. A Preview of the Cell
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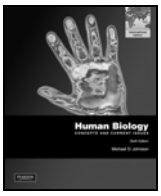
Evolutionary Analysis, 5/e

Jon C. Herron
Scott Freeman, University of Washington

ISBN-10: 0321616677
ISBN-13: 9780321616678
848pp ©2013 Cloth

Basic Approach
For undergraduate courses in Evolution.
By presenting evolutionary biology as an ongoing research effort, this best-selling text aims to help students think like scientists. The authors convey the excitement and logic of evolutionary science by introducing principles through recent and classical studies, and by emphasizing real-world applications.



Human Biology: Concepts and Current Issues, 6/e

Michael D. Johnson, West Virginia University

ISBN-10: 0321758188
ISBN-13: 9780321758187
624pp ©2012 Paper

Basic Approach
Award-winning teacher Michael D. Johnson sparks the interest of today's science-intimidated student by connecting basic biology to real-world issues that are relevant to students' own lives. Through a storytelling approach and extensive online support, **Human Biology: Concepts and Current Issues, Sixth Edition** not only demystifies how the human body works but drives students to become better consumers of health and science information. Each chapter now opens with Johnson's popular "Current Issue" essays, and inside each chapter are entries from the author's own, frequently updated blog. Expanded online resources are now available and conveniently referenced in chapter sections with icons and URLs. The **Sixth Edition** also offers stronger student self-assessment tools, with new and expanded critical-thinking questions throughout each chapter and in the end-of-chapter reviews.

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12. Sensory Mechanisms
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14. The Digestive System and Nutrition
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16. Reproductive Systems
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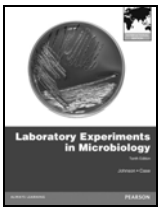
18. Cancer: Uncontrolled Cell Division and Differentiation
19. Genetics and Inheritance
20. DNA Technology and Genetic Engineering
21. Development and Aging
22. Evolution and the Origins of Life

23. Ecosystems and Populations
24. Human Impacts, Biodiversity, and Environmental Issues



Laboratory Experiments in Microbiology, 10/e

Ted R. Johnson, St. Olaf College
Christine L. Case, Skyline College

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ISBN-13: 9780321799166
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Basic Approach

Containing 57 thoroughly class-tested and easily customizable exercises, **Laboratory Experiments in Microbiology, Tenth Edition**, provides engaging labs with instruction on performing basic microbiology techniques and applications for undergraduate students in diverse areas, including the biological sciences, allied health sciences, agriculture, environmental science, nutrition, pharmacy, and various pre-professional programs. The perfect companion to Tortora/Funke/Case's **Microbiology: An Introduction** or any introductory microbiology text, the **Tenth Edition** features an updated art program and a full-color design, integrating valuable micrographs throughout each exercise. Additionally, many of the illustrations have been re-rendered in a modern, realistic, three-dimensional style to better visually engage students. Laboratory Reports for each exercise have been enhanced with new Clinical Applications questions, as well as questions relating to Hypotheses or Expected Results. Experiments have been refined throughout the manual and the Tenth Edition includes an extensively revised exercise on transformation in bacteria using pGLO to introduce students to this important technique.

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Concepts of Genetics, 10/e

William S. Klug, The College of New Jersey
Michael R. Cummings, Illinois Institute of Technology, Chicago
Charlotte A. Spencer, University of Alberta
Michael A. Palladino, Monmouth University

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Basic Approach

Concepts of Genetics is known for its focus on teaching core concepts and problem solving. This best-selling text has been extensively updated, with coverage on emerging topics in genetics, and problem-solving support has been enhanced.

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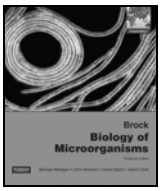

Brock Biology of Microorganisms, 13/e

Michael T. Madigan, Southern Illinois University
John M. Martinko, Southern Illinois University
David A. Stahl, University of Washington
David P. Clark, Southern Illinois University

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Basic Approach

The authoritative #1 textbook for introductory majors microbiology, **Brock Biology of Microorganisms** continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology.
In addition to a new co-author, David Stahl, who brings coverage of cutting edge microbial ecology research and symbiosis to a brand new chapter (Chapter 25), a completely revised overview chapter on Immunology (Chapter 28), a new "Big Ideas" section at the end of each chapter, and a wealth of new photos and art make the **Thirteenth Edition** better than ever. **Brock Biology of Microorganisms** speaks to today's students while maintaining the depth and precision science majors need.

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Genetics Laboratory Investigations, 14/e

Thomas L Mertens
Robert L. Hammersmith, *Ball State University*

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Basic Approach
THE definitive genetics lab manual for over 50 years, this user-friendly volume stresses classical genetics, but includes some of the recent advances related to molecular and human genetics as well.

Biology of Cancer, 2/e

Michael A. Palladino, Monmouth University
Dorothy Lobo, Monmouth University

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Basic Approach
In this **Special Topics in Biology** booklet, the causes, growth patterns, and possible treatments of various types of cancers are presented in a clear and concise format. The **Second Edition** provides updated information on DNA damage and mutations, with new discussions of radiation, environmental toxins and chemicals that can lead to cancer, and a new section that explores the role of viral infections in causing cancer. To provide students with a broader foundation for understanding current research, new co-author Dorothy Lobo has also added material on the properties of cancer and its treatments, including aneuploidy, cancer stem cells, failure of immunosurveillance, and epigenetics.

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IV. What causes cancer?
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Vertebrate Life, 9/e

F. Harvey Pough, Rochester Institute of Technology
Christine M. Janis, Brown University
John B. Heiser, Cornell University

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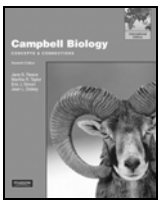
Basic Approach
For courses in Vertebrate Zoology, Vertebrate Biology Function, and Paleontology
Widely praised for its comprehensive coverage and exceptionally clear writing style, this best-selling text explores how the anatomy, physiology, ecology, and behavior of animals interact to produce organisms that function effectively in their environments and how lineages of organisms change through evolutionary time. The **Eighth Edition** features dozens of new figures and photos, updated information from molecular data and evolutionary development, and expanded discussions on global climate change, extinction, and conservation.



Campbell Biology: Concepts & Connections, 7/e

Jane B. Reece, Berkeley, California
Martha R. Taylor, Cornell University
Eric J. Simon, New England College
Jean L. Dickey, Clemson University

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Basic Approach
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Campbell Biology: Concepts & Connections with MasteringBiology®, Seventh Edition–always accurate, always current, and always the most pedagogically innovative non-majors biology text. This bestselling text has undergone an extensive revision to make biology even more approachable with increased use of analogies, real world examples, and more conversational language. Using over 200 new MasteringBiology activities that were written by the dynamic author team, your students arrive for class prepared. The book and MasteringBiology together create the classroom experience that you imagined in your wildest dreams.

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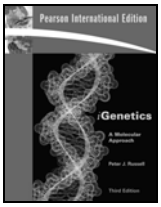

iGenetics: A Molecular Approach, 3/e

Peter J. Russell, Reed College

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ISBN-13: 9780321610225
848pp ©2012 Paper

Basic Approach

With its modern chapter organization and new “Focus on Genomics” boxes, **iGenetics: A Molecular Approach** reflects the increasing molecular emphasis in today’s experimental study of genes while helping students develop problem-solving skills and an appreciation for classic experiments. Although molecular topics are presented first, instructors can assign the chapters in any sequence.

Pedagogical features such as chapter-opening “Key Questions” and strategically placed “Keynotes” help students to efficiently master genetic concepts. The Genetics Place Companion Website contains interactive iActivities and narrated animations that help students visualize and understand processes and concepts that are illustrated in the text.

MasteringGenetics is an online learning and assessment system proven to help students learn problem-solving skills.It helps instructors maximize class time with customizable, easy-to-assign, automatically graded assessments that motivate students to learn outside of class and arrive prepared for lecture.

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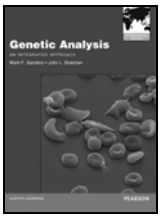

Genetic Analysis: An Integrated Approach, 1/e

Mark F. Sanders
John L. Bowman

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ISBN-13: 9780321818461
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Basic Approach

Informed by many years of genetics teaching and research experience, authors Mark Sanders and John Bowman use an integrative approach that helps contextualize three core challenges of learning genetics: solving problems, understanding evolution, and understanding the connection between traditional genetics models and more modern approaches.

Genetic Analysis: An Integrated Approach is also accompanied by MasteringGenetics™, the most powerful online homework and assessment system available.

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Campbell Essential Biology, 5/e

Eric J. Simon, New England College
Jean L. Dickey, Clemson University
Jane B. Reece, Berkeley, California

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Campbell Essential Biology, Fifth Edition, makes biology irresistibly interesting for non-majors biology students. This best-selling book, known for its scientific accuracy and currency, makes biology relevant and approachable with increased use of analogies, real world examples, more conversational language, and intriguing questions.
Campbell Essential Biology… make biology irresistibly interesting.

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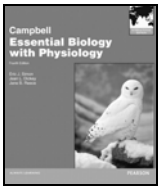

Campbell Essential Biology with Physiology, 4/e

Eric J. Simon, New England College
Jean L. Dickey, Clemson University
Jane B. Reece, Berkeley, California

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Campbell Essential Biology with Physiology… make biology irresistibly interesting.

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VI. PLANT STRUCTURE AND FUNCTION
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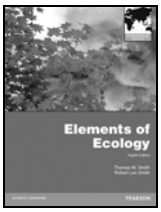

Elements of Ecology, 8/e
Thomas M. Smith, University of Virginia
Robert Leo Smith, (Emeritus) West Virginia University

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704pp ©2012 Paper

Basic Approach
Known for its evolution theme and strong coverage of the relevance of ecology to everyday life and the human impact on ecosystems, the thoroughly revised **Eighth Edition** features refined quantitative exercises, a restructured chapter on life history, a thoroughly revised species interactions unit including a chapter introducing the subject, and a new chapter on species interactions.

To emphasize the dynamic and experimental nature of ecology, each chapter draws upon current research in the various fields of ecology while providing accessible examples that help students understand species natural history, specific ecosystems, the process of science, and ecological patterns at both an evolutionary and demographic scale.

To engage students in using and interpreting data, a wide variety of *Quantifying Ecology* boxes walk through step-by-step examples of equations and statistical techniques. The enhanced companion website (www.ecologyplace.com) features new MapMaster™ interactive map activities for exploring ecosystems, physical environments, and populations at regional and global scales, along with popular GRAPHit!, and QUANTIFYit! exercises that help students further master and apply math skills.

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30 Global Climate Change

Introduction to Biotechnology, 3/e

William J. Thieman, Ventura College
Michael A. Palladino, Monmouth University

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Basic Approach
Thoroughly updated for currency and with exciting new practical examples throughout, this popular text provides the tools, practice, and basic knowledge for success in the biotech workforce.
With its balanced coverage of basic cell and molecular biology, fundamental techniques, historical accounts, new advances, and hands-on applications, the **Third Edition** emphasizes the future of biotechnology and the biotechnology student's role in that future. Two new features—Forecasting the Future, and Making a Difference—along with several returning hallmark features, support the new focus.

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10. Aquatic Biotechnology
11. Medical Biotechnology
12. Biotechnology Regulations
13. Ethics and Biotechnology

Environmental & Natural Resources Economics, 9/e

Tom Tietenberg
Lynne Lewis

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Basic Approach
Environmental & Natural Resource Economics is the best-selling text for this course, offering a policy-oriented approach and introducing economic theory in the context of debates and empirical work from the field. Students leave the course with a global perspective of both environmental and natural resource economics.

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22. Visions of the Future Revisited

Microbiology: An Introduction, 11/e

Gerard J. Tortora, Bergen Community College
Berdell R. Funke, North Dakota State University
Christine L. Case, Skyline College

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960pp ©2013 Paper

Basic Approach

This #1 selling non-majors microbiology textbook is praised for its straightforward presentation of complex topics, careful balance of concepts and applications, and proven art that teaches. In its **Eleventh Edition,** Tortora, Funke, and Case's **Microbiology: An Introduction** helps students make the connection between microbiology and human health. This edition continues to incorporate the latest in microbiology research and includes more features designed to engage students and promote critical thinking.

With the complex and extensive information presented in introductory microbiology courses, demonstrating the connections between processes students can't see with their naked eye and diseases they will encounter in future careers can be challenging. Microbiology: An Introduction guides students through the process of disease diagnosis, aided by the practical application of the new Clinical Cases that are integrated through every textbook chapter. The text, complemented by MasteringMicrobiology®, provides new MicroLab Tutors that help students prepare, practice, and maximize their lab time. To take learning beyond the classroom, new assignable Mastering content appeals to students, helping them understand how microbiology works and why it's important—reinforcing textbook lessons with interactive coaching activities and tutorials of the foundation figures, case studies and additional features.

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26. Microbial Diseases of the Urinary and Reproductive Systems

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27. Environmental Microbiology
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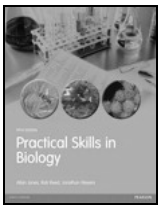

Practical Skills in Biology, 5/e

Jonathan Weyers
Rob Reed
Allan Jones

ISBN-10: 1408245477
ISBN-13: 9781408245477
560pp ©2012 Paper

Basic Approach
Practical Skills in Biology is an indispensable book for undergraduate students in the life sciences. The book provides useful support at all stages of a degree course and underpins any practical course in biology. It is also a valuable resource for teachers of biology in colleges and secondary schools.
Laboratory and field studies are essential components of undergraduate training in biology; practical work must be fully understood and effectively presented, but many students under-perform because they lack basic laboratory skills. The fifth edition continues to provide students with easy-to-use guidance for laboratory and field studies and broader transferable skills but also offers new material on subjects ranging from environmental investigations to writing a project proposal. It is the ideal text for students to rely on throughout their undergraduate course.

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I: Study and examination skills
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Essential Environment: The Science behind the Stories, 4/e

Jay H Withgott
Matthew Laposata, Kennesaw State University

ISBN-10: 0321780043
ISBN-13: 9780321780041
464pp ©2012 Paper

Basic Approach

Essential Environment: The Science behind the Stories, Fourth Edition engages students with integrated central case studies that provide students with a tangible framework for understanding science in a brief 18-chapter text. Jay Withgott and new co-author Matt Laposata present the latest coverage of environmental science and introduce new FAQ sections to address common student misconceptions. Now with MasteringEnvironmentalScience™ including activities written by the authors, your students will arrive better prepared for class.

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I. **FOUNDATIONS OF ENVIRONMENTAL SCIENCE**
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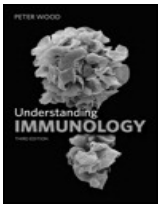
3. Evolution, Biodiversity, and Population Ecology
4. Species Interactions and Community Ecology
5. Environmental Economics and Environmental Policy
II. ENVIRONMENTAL ISSUES AND THE SEARCH FOR SOLUTIONS
6. Human Population
7. Soil, Agriculture, and the Future of Food
8. Biodiversity and Conservation Biology
9. Forests, Forest Management, and Protected Areas
10. Environmental Health and Toxicology
11. Geology, Minerals, and Mining
12. Fresh Water, Oceans, and Coasts
13. Atmospheric Science and Air Pollution
14. Global Climate Change
15. Nonrenewable Energy Sources, Their Impacts, and Energy Conservation
16. Renewable Energy Alternatives
17. Managing Our Waste

18. The Urban Environment: Creating Sustainable Cities.
Epilogue: Sustainable Solutions



Understanding Immunology, 3/e
Peter Wood

ISBN-10: 0273730681
ISBN-13: 9780273730682
392pp ©2012 Paper

Basic Approach
Understanding Immunology is a well-established introduction to this complex subject for readers with no previous exposure. It is aimed primarily at undergraduates in biological sciences, biomedical sciences and medicine. The selection and order of topic coverage is designed to instruct effectively, and a variety of boxed examples add depth and historical context for those readers wanting to go beyond the essentials.
The first part of the book (Chapters 1 to 11) takes students through the pathogenesis of infectious diseases and describes the molecules, cells and tissues of the immune system that provide protection against a wide variety of pathogens. It also describes how mankind has utilised the immune system, from the development of vaccines to the production of reagents for use in the clinic and laboratory. The final four chapters describe how the immune system operates in disease situations such as allergy, autoimmunity and transplantation.
This third edition is revised to cover the latest experimental and clinical changes in the subject, particularly those in the development of lymphocytes; the different types of CD4 helper T cells; the use of antibodies, including monoclonal antibodies, as experimental and clinical tools; and immunological tolerance.
Dr. Peter Wood is a Lecturer in the Faculty of Life Sciences at the University of Manchester. He has over 20 years of teaching experience, both in the UK and in the USA, and is widely published in the literature. His current research interest is the role of cytokines in the development of diabetes.

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Introductory Chemical Engineering Thermodynamics, 2/e

J. Richard Elliott, *University of Akron*
Carl T. Lira, *Michigan State University*

ISBN-10: 0132756242
ISBN-13: 9780132756242
912pp ©2012 Paper

Basic Approach

A deep understanding of thermodynamics is essential to success in a wide range of chemical and biochemical engineering applications. In this book, two leading experts and long-time instructors thoroughly explain the subject, taking the molecular perspective that working engineers require (and competitive books often avoid). This new Second Edition contains extensive new coverage of today's fast-growing biochemical engineering applications, notably biomass conversion to fuels and chemicals. It also presents many new MATLAB examples and tools to complement its previous usage of Excel and other software. New and updated coverage includes: " Integrated discussions of biological thermodynamics throughout " Clear learning objectives and outcomes for each chapter, provided as a web supplement " More examples focusing on the First and Second Laws of thermodynamics and fluid phase equilibria in mixtures " A new overview of mixture modeling concepts " Reorganized, enhanced coverage of van der Waals and local composition models " A brand-new chapter on molecular simulations " Expanded coverage of stability theory " Updated online supplements and new online teaching tools, including ConceptTesting

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16. Reacting Systems
17. Molecular Association and Solvation
Unit V. Advanced Topics
18. Introduction to Molecular Simulations
19. Stability
Glossary

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Basic Principles and Calculations in Chemical Engineering, 8/e

David M. Himmelblau, University of Texas, Austin
James B. Riggs

ISBN-10: 0132835568
ISBN-13: 9780132835565
800pp ©2012 Paper

Basic Approach

Basic Principles and Calculations in Chemical Engineering, 8/e, provides a complete, practical, and student-friendly introduction to the principles and techniques of modern chemical, petroleum, and environmental engineering. The authors introduce efficient and consistent methods for solving problems, analyzing data, and conceptually understanding a wide variety of processes. This edition has been revised to reflect growing interest in the life sciences, adding biotechnology and bioengineering problems and examples throughout. It also adds many new examples and homework assignments on nanotechnology, environmental, and green engineering, plus many updates to existing examples. A new chapter presents multiple student projects, and several chapters from the previous edition have been condensed for greater focus. This text's features include: * Thorough introductory coverage, including unit conversions, basis selection, and process measurements * Short chapters supporting

flexible, modular learning * Consistent, sound strategies for solving material and energy balance problems * Key concepts ranging from stoichiometry to enthalpy * Behavior of gases, liquids, and solids * Many tables, charts, and reference appendices * Self-assessment tests, thought/discussion problems, homework problems, and glossaries in each chapter

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Appendix D: Heats of Formation and Combustion
Appendix E: Answers to Selected Problems

Part V: Supplementary Material (On the Accompanying CD)
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13. Liquids and Gases in Equilibrium with Solids
14. The Mechanical Energy Balance
15. Solving Material and Energy Balances Using Process Simulators
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Various Physical Property Appendixes

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Analysis, Synthesis and Design of Chemical Processes, 4/e

Richard Turton
Richard C. Bailie
Wallace Whiting
Joseph A. Shaeiwitz
Debangsu Bhattacharyya

ISBN-10: 0132940299
ISBN-13: 9780132940290
1104pp ©2012 Paper

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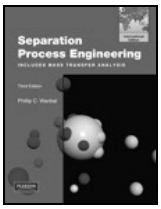

Separation Process Engineering: Includes Mass Transfer Analysis, 3/e

Phillip C. Wankat

ISBN-10: 0132790211
ISBN-13: 9780132790215
992pp ©2012 Paper

Basic Approach

Separation Process Engineering, Third Edition, is the most comprehensive, accessible text available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data–including up-to-date simulation practice and new spreadsheet-based exercises.

Table of Contents

1 Introduction to Separation Process Engineering
2 Flash Distillation
3 Introduction to Column Distillation
4 Column Distillation Internal Stage-by-Stage Balances
5 Introduction to Multicomponent Distillation
6 Exact Calculation Procedures for Multicomponent Distillation
7 Approximate Shortcut Methods for Multicomponent Distillation
8 Introduction to Complex Distillation Methods
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15 Introduction to Diffusion and Mass Transfer
16 Mass Transfer Analysis for Distillation, Absorption, Stripping, and Extraction
17 Introduction to Membrane Separation Processes
18 Introduction to Adsorption, Chromatography, and Ion Exchange

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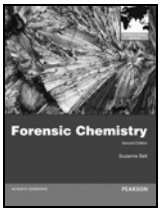

Forensic Chemistry, 2/e

Suzanne Bell, West Virginia University

ISBN-10: 0321816870
ISBN-13: 9780321816870
648pp ©2013 Paper

Basic Approach

Written specifically for the undergraduate course in Forensic Chemistry, Bell's ***Forensic Chemistry,* Second Edition** provides a solid foundation for basic chemistry, introducing chemical concepts and practices from a forensic perspective (including multivariate statistics, quality assurance/quality control, and protocols used in working forensic laboratories). It offers students insight into the legal context in which forensic chemistry is conducted, the variety of types of samples and matrices, and extensive use of instrumentation they will likely encounter in the lab and future professions.

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1 Introduction and Overview Chemistry and the Law
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2 Foundations
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4 Reporting Defensible Uncertainty and Obtaining Representative Samples
PART 2 CHEMICAL FOUNDATIONS
5 Chemical Fundamentals: Partitioning, Equilibria, and Acid/ Base Chemistry
6 Instrumentation
PART 3 DRUGS AND POISON
7 Drugs as Physical Evidence: Seized Drugs and Their Analysis
8Forensic Drug Analysis II: Selected Drug Classes
9Drugs in the Body
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PART 4 COMBUSTION EVIDENCE
11 The Chemistry of Combustion and Arson
12 Explosives
13Firearms and Associated Chemical Evidence
PART 5 MATERIALS
14The Chemistry of Colors and Colorants
15 The Chemistry of Polymers
16 Forensic Analysis of Inks and Paints
17 Chemical Analysis of Materials I: Paper, Fibers, and Plastic

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Biochemistry Laboratory: Modern Theory and Techniques, 2/e

Rodney F. Boyer, Hope College

ISBN-10: 0132374900
ISBN-13: 9780132374903
384pp ©2012 Paper

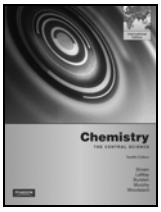
Basic Approach

The biochemistry laboratory course is an essential component in training students for careers in biochemistry, molecular biology, chemistry, and related molecular life sciences such as cell biology, neurosciences, and genetics. Increasingly, many biochemistry lab instructors opt to either design their own experiments or select them from major educational journals. ***Biochemistry Laboratory: Modern Theory and Techniques*** addresses this issue by providing a flexible alternative without experimental protocols. Instead of requiring instructors to use specific experiments, the book focuses on detailed descriptions of modern techniques in experimental biochemistry and discusses the theory behind such techniques in detail. An extensive range of techniques discussed includes Internet databases, chromatography, spectroscopy, and recombinant DNA techniques such as molecular cloning and PCR. The **Second Edition** introduces cutting-edge topics such as membrane-based chromatography, adds new exercises and problems throughout, and offers a completely updated Companion Website.

Table of Contents

1 Introduction to the Biochemistry/Molecular Biology Laboratory
2 Using the Computer and Internet for Research in Biochemistry
3 General Laboratory Procedures
4 Centrifugation Techniques in Biochemistry/Molecular Biology

5 Purification and Analysis of Biomolecules by Chromatography
6 Characterization of Proteins and Nucleic Acids by Electrophoresis
7 Spectroscopic Analysis of Biomolecules
8 Biomolecular Interactions Ligand Binding and Enzyme Reacations
9 Molecular Biology I Structures and Analysis of Nucleic Acids
10 Molecular Biology II Recombinant DNA, Molecular Cloning and Enzymology
11 Protein Production, Purification, and Characterization



Chemistry: The Central Science, 12/e

Theodore E. Brown, University of Illinois at Urbana, Champaign
H. Eugene H LeMay, University of Nevada, Reno
Bruce E. Bursten, University of Tennessee, Knoxville
Catherine Murphy, University of Illinois at Urbana-Champaign
Patrick Woodward, The Ohio State University

ISBN-10: 0321749839
ISBN-13: 9780321749833
1200pp ©2012 Paper

Basic Approach
Trusted, innovative, and calibrated, ***Chemistry: The Central Science*** has been the leader in general chemistry for over a decade. The unrivaled problems, scientific accuracy, and clarity that keep Brown/LeMay/Bursten/Murphy/Woodward at the forefront of the discipline have been upheld and are woven seamlessly with each new feature in this edition.
The **Twelfth Edition** is this text's most ambitious revision to date—every word and piece of art has been scrutinized for effectiveness by all five authors. Based on abundant data culled from MasteringChemistry®, this intelligent, data-informed revision reflects the unparalleled teaching expertise of its author team. Each chapter has been updated and streamlined to remove any content not proven to increase student comprehension of the fundamental concepts of chemistry. Joined in this edition by new co-author Patrick Woodward, the book's impeccable authorship gains a fresh, new perspective yet maintains its unified, consistent voice.

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1 Introduction: Matter and Measurement
2 Atoms, Molecules, and Ions
3 Stoichiometry: Calculations with Chemical Formulas and Equations
4 Reactions in Aqueous Solution
5 Thermochemistry
6 Electronic Structure of Atoms
7 Periodic Properties of the Elements
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9 Molecular Geometry and Bonding Theories
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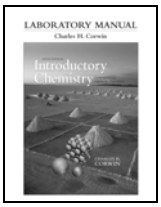
18 Chemistry of the Environment
19 Chemical Thermodynamics
20 Electrochemistry
21 Nuclear Chemistry
22 Chemistry of the Nonmetals
23 Transition Metals and Coordination Chemistry
24 The Chemistry of Life: Organic and Biological Chemistry



Laboratory Manual for Introductory Chemistry: Concepts and Critical Thinking, 6/e

Charles H. Corwin, American River College

ISBN-10: 0321750942
ISBN-13: 9780321750945
352pp ©2013 Spiral Bound

ISBN: 9780321750945

Basic Approach
Emphasizing environmental considerations, Corwin's acclaimed lab manual offers a proven format of a prelaboratory assignment, a stepwise procedure, and a postlaboratory assignment. More than 300,000 students to date in Introductory Chemistry, Preparatory Chemistry, and Allied Health Chemistry have used these "bullet-proof" experiments successfully. The **Sixth Edition** features new environmental icons to alert students to recycle chemical waste, updated prelabs and postlabs, new experimental procedures, a new experiment (Experiment 25) and a new appendix on how to keep a laboratory notebook. Corwin's lab manual can be packaged with any

Pearson Intro Prep Chemistry book.

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1 Introduction to Chemistry
2 Instrumental Measurements
3 Density of Liquids and Solids
4 Freezing Points and Melting Points
5 Physical Properties and Chemical Properties
6 “Atomic Fingerprints”
7 Families of Elements
8 Identifying Cations in Solution
9 Identifying Anions in Solution
10 Analysis of a Penny
11 Determination of Avogadro’s Number
12 Empirical Formulas of Compounds
13 Analysis of Alum
14 Decomposing Baking Soda
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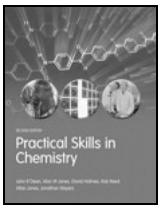
17 Generating Oxygen Gas
18 Molecular Models and Chemical Bonds
19 Analysis of Saltwater
20 Analysis of Vinegar
21 Electrical Conductivity of Aqueous Solutions
22 Activity Series of Metals
23 Organic Models and Functional Groups
24 Separation of Food Colors and Amino Acids
25 Laboratory Instruments and Technique



Practical Skills in Chemistry, 2/e

John Dean
David Holmes
Alan M Jones
Allan Jones
Rob Reed
Jonathan Weyers

ISBN-10: 0273731181
ISBN-13: 9780273731184
592pp ©2012 Paper

Basic Approach
If you are studying chemistry, or a related course such as forensic chemistry or biochemistry, then this book will be an indispensable companion throughout your entire degree programme. This ‘one-stop’ text will guide you through the wide range of practical, analytical and data handling skills that you will need during your studies. It will also give you a solid grounding in the wider transferable skills such as teamwork and study skills.

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Evaluating information
Using on-line resources
Internet resources for chemistry
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Writing literature surveys and reviews
Fundamental laboratory techniques
Your approach to practical work
Health and safety
Working with liquids
Basic laboratory procedures I

Basic laboratory procedures II
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pH and buffer solutions
The investigative approach
Making and recording measurements
SI units and their use
Scientific method and design of experiments
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Reflux
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Complexometric titrations
Redox titrations
Precipitation titrations
Analytical quantitative techniques
Fundamental principles of quantitative chemical analysis
Calibration and quantitative analysis
Basic spectroscopy
Atomic spectroscopy
X-ray fluorescence spectroscopy
Chromatography – basic principles
Gas and liquid chromatography*
Electrophoresis
Electroanalytical techniques
Radioactive isotopes and their uses

Analytical structural techniques
Infrared spectroscopy
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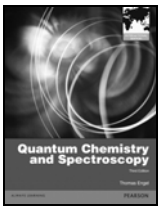

Quantum Chemistry and Spectroscopy, 3/e

Thomas Engel, University of Washington

ISBN-10: 0321781619
ISBN-13: 9780321781611
528pp ©2013 Paper

Basic Approach

Engel and Reid's ***Quantum Chemistry and Spectroscopy*** gives students a contemporary and accurate overview of physical chemistry while focusing on basic principles that unite the sub-disciplines of the field. The Third Edition continues to emphasize fundamental concepts and presents cutting-edge research developments that demonstrate the vibrancy of physical chemistry today. MasteringChemistry® for Physical Chemistry – a comprehensive online homework and tutorial system specific to Physical Chemistry – is available for the first time with Engel and Reid to reinforce students' understanding of complex theory and to build problem-solving skills throughout the course.

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1. From Classical to Quantum Mechanics
2. The Schrödinger Equation
3. The Quantum Mechanical Postulates

4. Using Quantum Mechanics on Simple Systems
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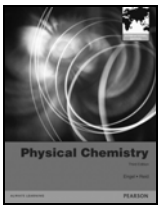
7. A Quantum Mechanical Model for the Vibration and Rotation of Molecules
8. The Vibrational and Rotational Spectroscopy of Diatomic Molecules
9. The Hydrogen Atom
10. Many-Electron Atoms
11. Quantum States for Many- Electron Atoms and Atomic Spectroscopy
12. The Chemical Bond in Diatomic Molecules
13. Molecular Structure and Energy Levels for Polyatomic Molecules
14. Electronic Spectroscopy
15. Computational Chemistry
16. Molecular Symmetry
17. Nuclear Magnetic Resonance Spectroscopy



Physical Chemistry, 3/e
Thomas Engel, University of Washington
Philip Reid, University of Washington

ISBN-10: 0321817192
ISBN-13: 9780321817198
1128pp ©2013 Paper

Basic Approach
For two-semester courses in Physical Chemistry or Quantum Chemistry.
This full-color, modern physical chemistry text offers arresting illustrations that set it apart from others of its kind. The authors focus on core topics of physical chemistry, presented within a modern framework of applications. Extensive math derivations are provided, yet the book retains the significant chemical rigor needed in physical chemistry.

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1 Fundamental Concepts of Thermodynamics
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32 Statistical Thermodynamics
33 Kinetic Theory of Gases
34 Transport Phenomena
35 Elementary Chemical Kinetics
36 Complex Reaction Mechanisms

Thermodynamics, Statistical Thermodynamics, & Kinetics, 3/e

Thomas Engel, University of Washington
Philip Reid, University of Washington

ISBN-10: 0321814207
ISBN-13: 9780321814203
624pp ©2013 Paper

Basic Approach

Engel and Reid's ***Thermodynamics, Statistical Thermodynamics, & Kinetics*** gives students a contemporary and accurate overview of physical chemistry while focusing on basic principles that unite the sub-disciplines of the field. The **Third Edition** continues to emphasize fundamental concepts and presents cutting-edge research developments that demonstrate the vibrancy of physical chemistry today. MasteringChemistry® for Physical Chemistry — a comprehensive online homework and tutorial system specific to Physical Chemistry — is available for the first time with Engel and Reid to reinforce students' understanding of complex theory and to build problem-solving skills throughout the course.

Table of Contents

1 Fundamental Concepts of Thermodynamics
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3 The Importance of State Functions: Internal Energy and Enthalpy
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5 Entropy and the Second and Third Laws of Thermodynamics
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14 Ensemble and Molecular Partition Functions
15 Statistical Thermodynamics
16 Kinetic Theory of Gases
17 Transport Phenomena
18 Elementary Chemical Kinetics
19 Complex Reaction Mechanisms

Chemistry and Life in the Laboratory: Experiments, 6/e

Victor L. Heasley, Point Loma Nazarene College
Val J. Christensen, Point Loma Nazarene University
Gene E. Heasley, Southern Nazarene University

ISBN-10: 0321751604
ISBN-13: 9780321751607
448pp ©2013 Paper

Basic Approach

Class-tested by thousands of students, this popular lab manual provides a comprehensive collection of 34 experiments specific to the General, Organic, and Biological Chemistry course. The **Sixth Edition** includes discussion of important environmental and cultural topics that relate to the experiments, new and revised laboratory questions and problems, fully revised laboratory techniques and discussion sections, and much more.

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1. Thinking Metric.
2. Molecular Motion: The Particulate Nature of Matter.
3. What Is a Chemical Reaction?
4. The Calorie: A Unit of Energy.
5. Reliability of Data: The Composition of a Compound.
6. Getting Acquainted with Metals.
7. The Halogen Family: Some Colorful Non-Metals.
8. Analysis of Commercial Bleaches: A Comparison of Two Competing Products.
9. How Fast are Chemical Reactions?
10. Chemical Reactions Can Go Forward and Backward.
11. Weights of Reactants and Products: Preparation of a Metal.
12. The pH Scale and the Use of Indicators.
13. The Control of Acidity: Buffer Solutions.
14. The Concentration of an Unknown Acid: A Cooperative Approach.
15. Acid and Alkali Content of Some Consumer Products.
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17. Electricity in Chemistry: Electrolytes and Electrochemistry.
18. Molecular Architecture: Some Comparisons between Covalent and Ionic Compounds
19. The Hydrocarbons.

20. Alcohols and Phenols
21. Aldehydes and Ketones.
22. Carboxylic Acids and Esters.
23. Amines and Amides.
24. Vitamin C in Natural and Synthetic Fruit Juices.
25. Preparation and Examination of Drug: Aspirin.
26. Carbohydrates.
27. Natural and Synthetic Polymers: The Preparation of Nylon.
28. Triglycerides and Other Lipids.
29. Saponification: Soap and Detergents.
30. Proteins and Amino Acids.
31. Enzymes and Chemical Reactions.
32. Analysis of an Important Food: The Peanut.
33. Milk and Its Principal Components
34. Optical Activity: A Study of Chiral Molecules.

Chemistry For Changing Times, 13/e
John W. Hill
Terry W. McCreary
Doris K. Kolb

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ISBN-13: 9780321815095
784pp ©2013 Paper

Basic Approach
The book that defined the liberal arts chemistry course, ***Chemistry for Changing Times*** remains the most visually appealing and readable introduction on the subject. The **Thirteenth Edition** increases its focus on student engagement – with revised "Have You Ever Wondered?" questions, new Learning Objectives in each linked to end of problems, and new Green Chemistry content, closely integrated with the text. Abundant applications and examples fill each, and material is updated throughout to mirror the latest scientific developments in a fast-changing world. Compelling opening photos, a focus on Green Chemistry, and the "It DOES Matter" features highlight current events and enable students to relate to the book more readily.

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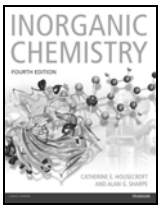
1 Chemistry
2 Atoms
3 Atomic Structure
4 Chemical Bonds
5 Chemical Accounting
6 Gases, Liquids, Solids, and Intermolecular Forces
7 Acids and Bases
8 Oxidation and Reduction
9 Organic Chemistry
10 Polymers
11 Nuclear Chemistry
12 Chemistry of the Earth
13 Air
14 Water
15 Energy
16 Biochemistry
17 Food
18 Drugs
19 Fitness and Health
20 Chemistry Down on the Farm and in the Garden and on the Lawn
21 Household Chemicals
22 Poisons



Inorganic Chemistry, 4/e
Catherine Housecroft
Alan G. Sharpe

ISBN-10: 0273742752
ISBN-13: 9780273742753
1168pp ©2012 Paper

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1 Basic concepts: atoms
2 Basic concepts: molecules
3. Introduction to molecular symmetry
4.Experimental Techniques

5 Bonding in polyatomic molecules
6 Structures and energetics of metallic and ionic solids
7 Acids, bases and ions in aqueous solution
8 Reduction and oxidation
9 Non-aqueous media
10 Hydrogen
11 Group 1: the alkali metals
12 The group 2 metals
13 The group 13 elements
14 The group 14 elements
15 The group 15 elements
16 The group 16 elements
17 The group 17 elements
18 The group 18 elements
19 *d*-Block chemistry: general considerations
20 *d*-Block metal chemistry: coordination complexes
21 *d*-Block chemistry: the first row metals
22 *d*-Block metal chemistry: the second and third row metals
23 Organometallic compounds of *s*- and *p*- block elements
24 Organometallic compunds of *d*-block elements
25 Catalysis and some industrial processes
26 *d*-Block metal complexes: reaction mechanisms
27 The *f*-block metals: lanthanoids and actinoids
28 Inorganic Materials and nanotechnology
29 The trace metals of life
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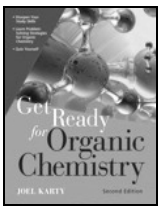

Get Ready for Organic Chemistry, 2/e

Joel Karty

ISBN-10: 0321774124
ISBN-13: 9780321774125
288pp ©2012 Paper

Basic Approach

Get Ready for Organic Chemistry takes a unique approach to preparing students for one of the most challenging courses in the undergraduate curriculum by emphasizing fundamental chemical concepts and helping students develop a productive mindset for studying Organic Chemistry. The **Second Edition** offers new learning tools within the text and online to further student understanding and promote retention of key Organic principles. Also available for an online course through MasteringChemistry®.

Table of Contents

1. Why Do Most Students Struggle with Organic Chemistry?
2. Lewis Dot Structures and the Chemical Bond
3. Molecular Geometry, Dipole Moments, and Intermolecular Interactions
4. Isomerism
5. Reaction Mechanisms 1: Elementary Steps
6. Charge Stability: Charge is Bad!
7. Reaction Mechanisms 2: SN1 and E1 Reactions and Rules of Thumb for Multistep Mechanisms
8. SN1/SN2/E1/E2 Reactions: The Whole Story
9. Concluding Remarks–What Now?

Biochemistry with Companion Website, 4/e

Christopher K. Mathews, Oregon State University
Kensal E. van Holde, Oregon State University
Dean R. Appling, The University of Texas at Austin
Spencer J. Anthony-Cahill, Western Washington University

ISBN: 9780132806411

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ISBN-13: 9780132806411
1368pp ©2013 Package

Basic Approach

The fourth edition of *Biochemistry* preserves the clear writing, strong physical chemistry background, and the use of the "Tools of Biochemistry" feature to underscore the experimental nature of biochemistry. This edition has been comprehensively and consistently updated to present the current developments in a rapidly evolving field.

Table of Contents

Part I The Realm of Biochemistry
1 The Scope of Biochemistry
2 The Matrix of Life: Weak Interactions in an Aqueous Environment
3 The Energetics of Life
Part II Molecular Architecture of Living Matter
4 Nucleic Acids
5 Introduction to Proteins: The Primary Level of Protein Structure
6 The Three-Dimensional Structure of Proteins
7 Protein Function and Evolution
8 Proteins in Motion: Contractile Systems and Molecular Motors
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11 Enzymes: Biological Catalysts
12 Chemical Logic of Metabolism
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17 Lipid Metabolism I: Fatty Acids, Triacylglycerols, and Lipoproteins
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19 Lipid Metabolism II: Membrane Lipids, Steroids, Isoprenoids, and Eicosanoids
20 Metabolism of Nitrogenous Compounds: Principles of Biosynthesis, Utilization, and Turnover
21 Metabolism of Nitrogenous Compounds: Amino Acids, Porphyrins, and Neurotransmitters
22 Nucleotide Metabolism
23 Mechanisms of Signal Transduction
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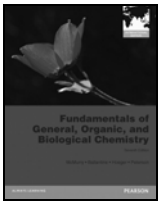
25 DNA Replication
26 DNA Restructuring: Repair, Recombination, Rearrangement, Amplification
27 Information Readout: Transcription and Post-transcriptional Processing
28 Information Decoding: Translation and Post-translational Protein Processing
29 Regulation of Gene Expression
Answers to Problems
Glossary
Index



Fundamentals of General, Organic, and Biological Chemistry, 7/e

John E. McMurry
Carl A. Hoeger
Virginia E. Peterson
David S. Ballantine

ISBN-10: 0321781708
ISBN-13: 9780321781703
992pp ©2013 Paper

Basic Approach

Fundamentals of General, Organic, and Biological Chemistry by McMurry, Ballantine, Hoeger, and Peterson provides background in chemistry and biochemistry with a relatable context to ensure students of all disciplines gain an appreciation of chemistry's significance in everyday life.

Known for its clarity and concise presentation, this book balances chemical concepts with examples, drawn from students' everyday lives and experiences, to explain the quantitative aspects of chemistry and provide deeper insight into theoretical principles. The **Seventh Edition** focuses on making connections between General, Organic, and Biological Chemistry through a number of new and updated features — including all-new Mastering Reactions boxes, Chemistry in Action boxes, new and revised chapter problems that strengthen the ties between major concepts in each chapter, practical applications, and much more.

Table of Contents

1. Matter and Measurements
2. Atoms and the Periodic Table
3. Ionic Compounds
4. Molecular Compounds
5. Classification and Balancing of Chemical Reactions
6. Chemical Reactions: Mole and Mass Relationships
7. Chemical Reactions: Energy, Rates, and Equilibrium
8. Gases, Liquids, and Solids
9. Solutions
10. Acids and Bases
11. Nuclear Chemistry
12. Introduction to Organic Chemistry: Alkanes
13. Alkenes, Alkynes, and Aromatic Compounds

14. Some Compounds with Oxygen, Sulfur, or a Halogen
15. Amines
16. Aldehydes and Ketones
17. Carboxylic Acids and their Derivatives
18. Amino Acids and Proteins
19. Enzymes and Vitamins
20. The Generation of Biochemical Energy
21. Carbohydrates
22. Carbohydrate Metabolism
23. Lipids
24. Lipid Metabolism
25. Nucleic Acids and Protein Synthesis
26. Genomics
27. Protein and Amino Acid Metabolism
28. Chemical Messengers: Hormones, Neurotransmitters, and Drugs
29. Body Fluids

Chemistry, 6 / e

John E. McMurry, *Cornell University*
Robert C. Fay, *Cornell University*

ISBN-10: 0321760875
ISBN-13: 9780321760876
1080pp ©2012 Paper

Basic Approach

Today's students use textbooks differently than their predecessors. ***Chemistry*, Sixth Edition** is designed to map to the way students seek and process information. McMurry/Fay's text helps students and professors get to the heart of chemistry more effectively, and helps students see the connections to chemistry more clearly.
With its spacious, unintimidating design and clear, direct writing style, this text is known for a smart, precise presentation that blends the quantitative and visual aspects of general chemistry. Chemistry is mastered when students make the right connections in three key areas: topics that are related, conceptual reasoning with quantitative work, and the different modes of communicating information. McMurry/Fay's ***Chemistry*, Sixth Edition** breaks through the traditional textbook limitations and help students make connections that have historically been more difficult. Features like Remember..., Conceptual Problems, Conceptual Worked Examples, Inquiry and Worked Examples make these critical connections clear and visible, so students see the chemistry the first time.

Table of Contents

1. Chemistry: Matter and Measurement
2. Atoms, Molecules, and Ions
3. Mass Relationships in Chemical Reactions
4. Reactions in Aqueous Solution
5. Periodicity and the Electronic Structure of Atoms
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7. Covalent Bonds and Molecular Structure
8. Thermochemistry: Chemical Energy
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10. Liquids, Solids, and Phase Changes
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12. Chemical Kinetics
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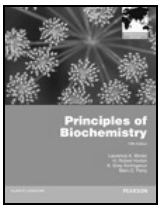
14. Aqueous Equilibria: Acids and Bases.
15. Applications of Aqueous Equilibria
16. Thermodynamics: Entropy, Free Energy, and Equilibrium
17. Electrochemistry
18. Hydrogen, Oxygen, and Water
19. The Main-Group Elements
20. Transition Elements and Coordination Chemistry
21. Metals and Solid-State Metals
22. Nuclear Chemistry
23. Organic and Biological Chemistry



Principles of Biochemistry, 5 / e

Laurence A. Moran, University of Toronto
Robert A Horton, North Carolina State University
Gray Scrimgeour, University of Toronto
Marc Perry, University of Toronto

ISBN-10: 0321795792
ISBN-13:9780321795793
896pp ©2012 Paper

Basic Approach
Principles of Biochemistry provides a concise introduction to fundamental concepts of biochemistry, striking the right balance of rigor and detail between the encyclopedic volumes and the cursory overview texts available today. Widely praised for accuracy, currency, and clarity of exposition, the **Fifth Edition** offers a new student-friendly design, an enhanced visual program, new Application Boxes, contemporary research integrated throughout, and updated end-of-chapter problems.

Table of Contents

Part One: Introduction
1 Introduction to Biochemistry
2 Water
Part Two: Structure and Function
3 Amino Acids and the Primary Structures of Proteins
4 Proteins: Three-Dimensional Structure and Function
5 Properties of Enzymes
6 Mechanisms of Enzymes
7 Coenzymes and Vitamins
8 Carbohydrates
9 Lipids and Membranes
Part Three: Metabolism and Bioenergetics
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11 Glycolysis
12 Gluconeogenesis, The Pentose Phosphate Pathway, and Glycogen Metabolism
13 The Citric Acid Cycle
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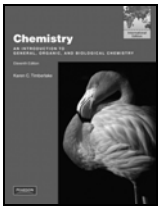
17 Amino Acid Metabolism
18 Nucleotide Metabolism
Part Four: Biological Information Flow
19 Nucleic Acids
20 DNA Replication, Repair, and Recombination
21 Transcription and RNA Processing
22 Protein Synthesis



Chemistry: An Introduction to General, Organic, and Biological Chemistry, 11/e

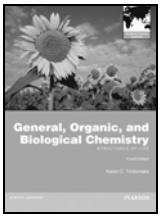
Karen C. Timberlake, *Los Angeles Valley College*

ISBN-10: 0321727827
ISBN-13: 9780321727824
744pp ©2012 Paper

Basic Approach
Timberlake's **Chemistry: An Introduction to General, Organic, and Biological Chemistry** is designed to help prepare students for health-related careers, such as nursing, dietetics, respiratory therapy, and environmental or agricultural science. Assuming no prior knowledge of chemistry, it aims to make this course an engaging and positive experience by relating the structure and behavior of matter to its role in health and the environment. Timberlake maintains the clear, friendly writing style and the real-world, health-related applications that have made this text a leader in the discipline. The **Eleventh Edition** introduces more problem-solving strategies—including new Concept Checks, more Guides to Problem Solving, and more conceptual, challenge, and combined problems.

Table of Contents

1 Chemistry and Measurements
2 Matter and Energy
3 Atoms and Elements
4 Compounds and Their Bonds
5 Chemical Quantities and Reactions
6 Gases
7 Solutions
8 Acids and Bases
9 Nuclear Radiation
10 Introduction to Organic Chemistry: Alkanes
11 Unsaturated Hydrocarbons
12 Organic Compounds with Oxygen and Sulfur
13 Carbohydrates
14 Carboxylic Acids, Esters, Amines, and Amides
15 Lipids
16 Amino Acids, Proteins, and Enzymes
17 Nucleic Acids and Protein Synthesis
18 Metabolic Pathways and Energy Production



General, Organic, and Biological Chemistry: Structures of Life, 4/e

Karen C. Timberlake

ISBN-10: 0321817885
ISBN-13: 9780321817884
936pp ©2013 Paper

Basic Approach

Designed to prepare students for health-related careers, ***General, Organic, and Biological Chemistry: Structures of Life*** breaks chemical concepts down into manageable pieces and offers a step-by-step approach that clarifies student understanding. Timberlake's friendly writing style, student focus, strong problems, and engaging, health-related applications make this book a best seller among its peers.
The **Fourth Edition** emphasizes connections between chemistry and students' future careers — and develops the problem-solving skills students need beyond the classroom. Each chapter now includes NEW **chapter-opening Career Interviews** and **Career Focus** features to illustrate the role chemistry plays in modern, health-related professions. A new **Analyze the Problem** feature furthers critical-thinking skills by showing students how to break down a word problem into the components needed to solve that problem. Throughout the new edition, national student performance data collected through MasteringChemistry® on assigned problems informed the extensive revisions to end-of-chapter problems, ensuring their effectiveness.

Table of Contents

1 Chemistry and Measurements
2 Energy and Matter
3 Atoms and Elements
4 Nuclear Chemistry
5 Compounds and Their Bonds
6 Chemical Reactions and Quantities
7 Gases
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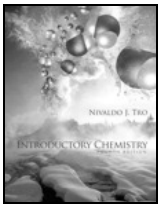
9 Reaction Rates and Chemical Equilibrium
10 Acids and Bases
11 Introduction to Organic Chemistry: Alkanes
12 Alkenes, Alkynes, and Aromatic Compounds
13 Alcohols, Phenols, Thiols, and Ethers
14 Aldehydes, Ketones, and Chiral Molecules
15 Carbohydrates
16 Carboxylic Acids and Esters
17 Lipids
18 Amines and Amides
19 Amino Acids and Proteins
20 Enzymes and Vitamins
21 Nucleic Acids and Protein Synthesis
22 Metabolic Pathways for Carbohydrates
23 Metabolism and Energy Production
24 Metabolic Pathways for Lipids and Amino Acids



Introductory Chemistry, 4/e

Nivaldo J. Tro, Westmont College

ISBN-10: 0321749820
ISBN-13: 9780321749826
832pp ©2012 Paper

Basic Approach

Introductory chemistry students need to develop problem-solving skills, and they also must see why these skills are important to them and to their world. ***Introductory Chemistry*, Fourth Edition** extends chemistry from the laboratory to the student's world, motivating students to learn chemistry by demonstrating how it is manifested in their daily lives. Throughout, the Fourth Edition presents a new student-friendly, step-by-step problem-solving approach that adds four steps to each worked example (Sort, Strategize, Solve, and Check). Tro's acclaimed pedagogical features include Solution Maps, Two-Column Examples, Three-Column Problem-Solving Procedures, and Conceptual Checkpoints.

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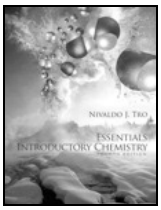
7 Chemical Reactions
8 Quantities in Chemical Reactions
9 Electrons in Atoms and the Periodic Table
10 Chemical Bonding
11 Gases
12 Liquids, Solids, and Intermolecular Forces
13 Solutions
14 Acids and Bases
15 Chemical Equilibrium
16 Oxidation and Reduction
17 Radioactivity and Nuclear Chemistry
18 Organic Chemistry
19 Biochemistry



Introductory Chemistry Essentials, 4/e

Nivaldo J. Tro

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ISBN-13: 9780321725998
736pp ©2012 Cloth

Basic Approach

Introductory chemistry students need to develop problem-solving skills, and they also must see why these skills are important to them and to their world. ***Introductory Chemistry Essentials,* Fourth Edition** extends chemistry from the laboratory to the student's world, motivating students to learn chemistry by demonstrating how it is manifested in their daily lives. Throughout, the Fourth Edition presents a new student-friendly, step-by-step problem-solving approach that adds four steps to each worked example (Sort, Strategize, Solve, and Check). Tro's acclaimed pedagogical features include Solution Maps, Two-Column Examples, Three-Column Problem-Solving Procedures, and Conceptual Checkpoints.

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1 The Chemical World
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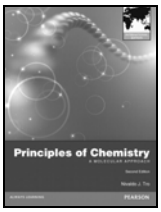
9 Electrons in Atoms and the Periodic Table
10 Chemical Bonding
11 Gases
12 Liquids, Solids, and Intermolecular Forces
13 Solutions
14 Acids and Bases
15 Chemical Equilibrium
16 Oxidation and Reduction
17 Radioactivity and Nuclear Chemistry



Principles of Chemistry: A Molecular Approach, 2/e

Nivaldo J. Tro, Westmont College

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ISBN-13: 9780321729019
936pp ©2013 Paper

Basic Approach

Adapted from Nivaldo J. Tro's best-selling general chemistry book, ***Principles of Chemistry: A Molecular Approach*** focuses exclusively on the core concepts of general chemistry without sacrificing depth or relevance. Tro's unprecedented two- and three-column problem-solving approach is used throughout to give students sufficient practice in this fundamental skill. A unique integration of macroscopic, molecular, and symbolic illustrations helps students to visualize the various dimensions of chemistry; Tro's engaging writing style captures student's attention with relevant applications. The **Second Edition** offers a wealth of new and revised problems, approximately 50 new conceptual connections, an updated art program throughout, and is available with MasteringChemistry®, the most advanced online tutorial and assessment program available.

Table of Contents

1. Matter, Measurement, and Problem Solving
2. Atoms and Elements
3. Molecules, Compounds, and Chemical Equations
4. Chemical Quantities and Aqueous Reactions
5. Gases
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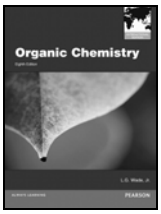
8. Periodic Properties of the Elements
9. Chemical Bonding I: Lewis Theory
10. Chemical Bonding II: Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory
11. Liquids, Solids, and Intermolecular Forces
12. Solutions
13. Chemical Kinetics
14. Chemical Equilibrium
15. Acids and Bases
16. Aqueous Ionic Equilibrium
17. Free Energy and Thermodynamics
18. Electrochemistry
19. Radioactivity and Nuclear Chemistry
20. Organic Chemistry



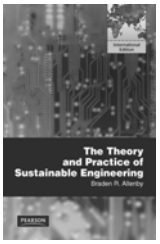
Organic Chemistry, 8 / e
Leroy G. Wade, *Whitman College*

ISBN-10: 0321811399
ISBN-13: 9780321811394
1320pp ©2013 Paper

Basic Approach
Acclaimed for its clarity and precision, Wade's ***Organic Chemistry*** maintains scientific rigor while engaging students at all levels. Wade presents a logical, systematic approach to understanding the principles of organic reactivity and the mechanisms of organic reactions. This approach helps students develop the problem-solving strategies and the scientific intuition they will apply throughout the course and in their future scientific work.
The **Eighth Edition** provides enhanced and proven features in every , including new Goals, Essential Problem-Solving Skills and Hints that encourage both majors and non-majors to think critically and avoid taking "short cuts" to solve problems. Mechanism Boxes and Key Mechanism Boxes strengthen student understanding of Organic Chemistry as a whole while contemporary applications reinforce the relevance of this science to the real world.

Table of Contents

1 Introduction and Review
2 Structure and Properties of Organic Molecules
3 Structure and Stereochemistry of Alkanes
4 The Study of Chemical Reactions
6 Alkyl Halides Nucleophilic Substitution and Elimination
7 Structure and Synthesis of Alkenes
8 Reactions of Alkenes
9 Alkynes
10 Structure and Synthesis of Alcohols
11 Reactions of Alcohols
12 Infrared Spectroscopy and Mass Spectrometry
13 Nuclear Magnetic Resonance Spectroscopy
14 Ethers, Epoxides and Thioethers
15 Conjugated Systems, Orbital Symmetry, and Ultraviolet Spectroscopy
16 Aromatic Compounds
17 Reactions of Aromatic Compounds
18 Ketones and Aldehydes
19 Amines
20 Carboxylic Acids
21 Carboxylic Acid Derivatives
22 Condensations and Alpha Substitutions of Carbonyl Compounds
23 Carbohydrates and Nucleic Acids
24 Amino Acids, Peptides, and Proteins
25 Lipids
26



Theory and Practice of Sustainable Engineering, The, 1/e

Braden R. Allenby, *Arizona State University*

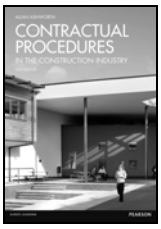
ISBN-10: 0273752162
ISBN-13: 9780273752165
432pp ©2012 Paper

Basic Approach

The Theory and Practice of Sustainable Engineering is appropriate to use in sustainable engineering classes for both majors and non-majors. This textbook was designed as the basis for a course in itself, but it can be used to provide modules in existing courses, or as a supplementary text in sustainable engineering, green engineering, industrial ecology, sustainability law and policy, and environmental courses.
Sustainable engineering is learning how to engineer responsibly and professionally in the Anthropocene: the Age of the Human. This textbook sketches out the cultural, social, institutional, and environmental context within which engineering and, more broadly, technology systems are now situated. It provides frameworks to facilitate understanding, communication, and the solving of highly complex problems with significant technological dimensions — all in the name of generating more capable professionals competent in their chosen field, who are able to integrate other disciplines to address complex adaptive systems.

Table of Contents

1 So What Is Different Now? Or, Why We Need Sustainable Engineering
2 Themes of the Anthropocene
3 Complexity
4 Sustainability
5 Homo Faber: Human History and Technology
6 Characteristics of Technology
7 Industrial Ecology
8 The Five Horsemen: Emerging Technologies
9 Green Chemistry
10 Sustainable Engineering: Information and Communication Technology
11 The Five Horsemen, Military Operations, and National Security
12 The Macroethics of Sustainable Engineering
13 The Aral Sea, The Everglades, and Adaptive Management
14 Earth Systems Engineering and Management: Sustainable Engineering at a Planetary Scale
15 The Engineer as Leader
Index of Boxes



Contractual Procedures in the Construction Industry, 6/e

Allan Ashworth

ISBN-10: 0273745603
ISBN-13: 9780273745600
488pp ©2012 Paper

Basic Approach

Contractual Procedures in the Construction Industryprovides students of Building and Surveying, Quantity Surveying, Construction Management, and Project Management with a comprehensive understanding of the subject. It reinforces the changes that are taking place within the construction industry, such as how it is organised and the way in which consultants, contractors, subcontractors and all of those involved in the supply chain obtain work.

Table of Contents

Part 1 Contract Law
1. The English Legal System
2. Legal Aspects of Contracts
3. Discharge of Contracts
4. Remedies for Breach of Contract
5. Settlement of Disputes
Part 2 Procurement.
6. Forms of Contract
7. Contract Strategy
8. Contract Procurement

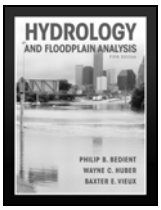
9. Contract Selection
10. Contract Documents
11. Design and Build
12. Procurement in the Twenty-First Century
13. Lean Construction
14. Public Private Partnerships (PPP) and the Private Finance Initiative (PFI)

Part 3 Process and Parties

15. Partnering and Supply Chain Management
16. The Construction Process.
17. Parties Involved in the Construction of Buildings.
18. Site Communications.
19. Construcing Excellence in the Built Environment
20. Health and Safety
21. Sustainable Construction

Part 4 Standard form of Building Contract

22. Introduction, Articles of Agreement, Appendix
23. Quality of Work During Construction
24. Costs of Construction
25. Time Factor of Construction
26. Works by Other Persons
27. Injury and Insurance of the Works
28. Fluctuations in the Costs
29. Financial Matters
30. Clauses of a General Nature



Hydrology and Floodplain Analysis, 5/e

Philip B. Bedient, Rice University
Wayne C. Huber, Oregon State University
Baxter E. Vieux, University of Oklahoma

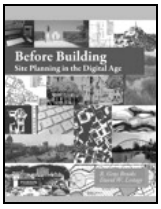
ISBN-10: 0132567962
ISBN-13: 9780132567961
810pp ©2013 Cloth

ISBN: 9780132567961

Basic Approach

For undergraduate and graduate courses in Hydrology.

This text offers a clear and up-to-date presentation of fundamental concepts and design methods required to understand hydrology and floodplain analysis. It addresses the computational emphasis of modern hydrology and provides a balanced approach to important applications in watershed analysis, floodplain computation, flood control, urban hydrology, stormwater design, and computer modeling.



Before Building: Site Planning in the Digital Age, 2/e

R. Gene Brooks, Architect and Urban Planner
David W. Lestage, Landscape Architect

ISBN-10: 013508069X
ISBN-13: 9780135080696
312pp ©2012 Paper

Basic Approach

For all courses in site planning or site development in both architecture and landscape architecture curricula.

This comprehensive, up-to-date text will help both students and practitioners thoroughly understand the current issues and technologies surrounding the process of site planning. It covers every topic required for a course in site planning, including land use controls and the history behind the law. It also presents detailed coverage of the role of computer technologies in supporting site planning, including up-to-date hardware, software, and applications. This is an ideal resource for third-year students in architecture, landscape architecture, civil engineering, and urban planning; others preparing for state architecture or landscape architecture board examinations, and professionals in the field.

Table of Contents

Part I. Site Planning In History

1. Historical References
2. Environmental Ethics: A Value System in Change
3. New Ethics, New Law, New Process

Part II. Until Recently

4. More Than a Digital Pencil
5. From Graphite to a CPU
6. Getting Organized

Part III. Environmental Inventory and Assessment

7. Mapping: The Method of Inventory
8. Geology
9. Vegetation
10. Hydrology

11. Climate and Site
Part IV. The Plan for Change
12. Digital Reality in Practice
13. Earthworks
14. Grading
15. Retaining Walls
16. Topography and Surveys
17. Stormwater Management and Erosion Control
Part V. Site Development and Regulation
18. Streets and Roads
19. Parking and Signage
20. Pedestrian and Bicycle Circulation
21. The Building and Energy
22. Land Use Controls
Part VI. Applying the Theory
23. The Site Planning Process
Appendix A. Stations Providing Local Climatological Data
Appendix B. Sun Pegs for Various Latitudes
Appendix C. Model CAD File Organization

Dynamics of Structures, 4/e

Anil K. Chopra, University of California at Berkeley

ISBN-10: 0132904799
ISBN-13: 9780132904797
992pp ©2012 Paper

Basic Approach

Designed for senior-level and graduate courses in Dynamics of Structures and Earthquake Engineering. **Dynamics of Structures** includes many topics encompassing the theory of structural dynamics and the application of this theory regarding earthquake analysis, response, and design of structures. No prior knowledge of structural dynamics is assumed and the manner of presentation is sufficiently detailed and integrated, to make the book suitable for self-study by students and professional engineers.

Table of Contents

PART I SINGLE-DEGREE-OF-FREEDOM SYSTEMS
1 Equations of Motion, Problem Statement, and Solution Methods
2 Free Vibration
3 Response to Harmonic and Periodic Excitations
4 Response to Arbitrary, Step, and Pulse Excitations
5 Numerical Evaluation of Dynamic Response
6 Earthquake Response of Linear Systems
7 Earthquake Response of Inelastic Systems
8 Generalized Single-Degree-of-Freedom Systems

PART II MULTI-DEGREE-OF-FREEDOM SYSTEMS
9 Equations of Motion, Problem Statement, and Solution Methods
10 Free Vibration
11 Damping in Structures
12 Dynamic Analysis and Response of Linear Systems
13 Earthquake Analysis of Linear Systems
14 Analysis of Nonclassically Damped Linear Systems
15 Reduction of Degrees of Freedom
16 Numerical Evaluation of Dynamic Response
17 Systems with Distributed Mass and Elasticity
18 Introduction to the Finite Element Method
19 Earthquake Response of Linearly Elastic Buildings
20 Earthquake Analysis and Response of Inelastic Buildings
21 Earthquake Dynamics of Base-Isolated Buildings
22 Structural Dynamics in Building Codes
23 Structural Dynamics in Building Evaluation Guidelines

Construction Quality: Do it Right or Pay the Price, 1/e

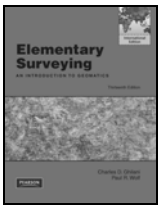
George C. Frank

ISBN-10: 0132171511
ISBN-13: 9780132171519
216pp ©2012 Paper

Basic Approach
For courses in Architecture, Engineering, Construction, Law, Business Management, Forensic Science, Chemistry.
Quality Construction: Do It Right OR Pay The Price addresses the lapse in professional ethics currently undermining segments of the construction industry. Starting with what is expected of any professional in the industry, the authors take readers through the various phases of the industry, reviewing concerns, what's expected, what's being done to discover the problems, and how many of these problems are being litigated. Drawing on the authors' real experience in the construction industry, this text prepares students to take a leadership role in improving the quality of craftsmanship in their chosen field–and not becoming a part of the problem.

Table of Contents

SECTION 1. PROFESSIONAL EXPECTATIONS (WE ARE WHAT WE PROJECT)
SECTION 2. CONTRACTUALLY SPEAKING (WHAT DID I AGREE TO DO)
SECTION 3. GOVERNMENTAL & PUBLIC ISSUES: (WORKING WITH RULES REGULATIONS & UNINFORMED PEOPLE)
SECTION 4. MYTHS AND FACTS (ISSUES THAT LEAD TO MISUNDERSTANDINGS & CONFRONTATION)
SECTION 5. ARCHITECTURAL ISSUES & CONSTRUCTION DEFECTS (IT'S A CONTRACTOR RESPONSIBILITY)
SECTION 6. ENGINEERING ISSUES & CONSTRUCTION DEFECTS (ENGINEERS DON'T MAKE MISTAKES)
SECTION 7. CONSTRUCTION ISSUES (DEFECTS & LITIGATION — WHY ME)
SECTION 8. CARE CUSTODY & CONTROL (WHOSE WATCHING THE STORE)
SECTION 9. SPECIALIZED & INVESTIGATIVE SERVICES (FINDING THE NEEDLE IN THE HAYSTACK)
SECTION 10. THE EXPERT WITNESS (WHAT TO LOOK FOR — WHAT TO EXPECT)



Elementary Surveying: An Introduction to Geomatics, 13/e

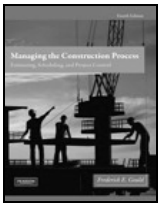
Charles D. Ghilani, *Pennsylvania State University*
Paul R. Wolf

ISBN-10: 0273751441
ISBN-13: 9780273751441
984pp ©2012 Paper

Basic Approach
For Surveying courses offered in Civil Engineering departments.
This highly readable, best-selling text presents basic concepts and practical material in each of the areas fundamental to modern surveying (geomatics) practice. Its depth and breadth are ideal for self-study. The 13th Edition is updated throughout to reflect the latest advances and technology.

Table of Contents

1 INTRODUCTION
2 UNITS, SIGNIFICANT FIGURES, AND FIELD NOTES
3 THEORY OF ERRORS IN OBSERVATIONS
4 LEVELING–THEORY, METHODS, AND EQUIPMENT
5 LEVELING–FIELD PROCEDURES AND COMPUTATIONS
6 DISTANCE MEASUREMENT
7 ANGLES, AZIMUTHS, AND BEARINGS
8 TOTAL STATION INSTRUMENTS; ANGLE OBSERVATIONS
9 TRAVERSING
10 TRAVERSE COMPUTATIONS
11 COORDINATE GEOMETRY IN SURVEYING CALCULATIONS
12 AREA
13 GLOBAL NAVIGATION SATELLITE SYSTEMS—INTRODUCTION AND PRINCIPLES OF OPERATION 14 GLOBAL NAVIGATION SATELLITE SYSTEMS—STATIC SURVEYS
15 GLOBAL NAVIGATION SATELLITE SYSTEMS—KINEMATIC SURVEYS
16 ADJUSTMENTS BY LEAST SQUARES
17 MAPPING SURVEYS
18 MAPPING
19 CONTROL SURVEYS AND GEODETIC REDUCTIONS
20 STATE PLANE COORDINATES AND OTHER MAP PROJECTIONS
21 BOUNDARY SURVEYS
22 SURVEYS OF THE PUBLIC LANDS
23 CONSTRUCTION SURVEYS
24 HORIZONTAL CURVES
25 VERTICAL CURVES
26 VOLUMES
27 PHOTOGRAMMETRY
28 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS



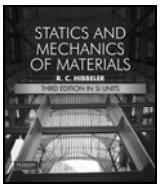
Managing the Construction Process, 4/e
Frederick Gould

ISBN-10: 0138135967
ISBN-13: 9780138135966
360pp ©2012 Cloth

Basic Approach
For a combined course in Estimating, Scheduling and/or Control; a course in Construction Process; or an Introduction to Construction Management.
Managing the Construction Process: Estimating, Scheduling, and Project Control, Fourth Edition, covers all areas of the Construction Management industry–with a balanced focus on both theory and practicality. Helping students gain a working knowledge of the whole Building Industry, this text provides the technical skills required to manage a construction project from conception through occupancy. Emphasizing current industry practices, it makes a useful reference for the construction professional.

Table of Contents

I. CONSTRUCTION PROJECT MANAGEMENT.
1. Industry and the Project.
2. The Project Management Process.
3. Construction Contracts and Delivery Methods.
II. ESTIMATING.
4. Estimating Fundamentals.
5. Conceptual and Square Foot Estimating.
6. Assemblies Estimating.
7. Detailed Estimating.
III. SCHEDULING.
8. Scheduling Fundamentals.
9. Network Construction.
10. Activity Duration and Network Calculations.
IV. PROJECT CONTROL.
11. Fundamentals of Project Control.
12. Cost, Schedule, and Resource Control.
13. Updating the Project: Control in Practice.
Appendix A.
Appendix B.
Index.



Statics & Mechanics of Materials SI, 3/E
Russell C. Hibbeler

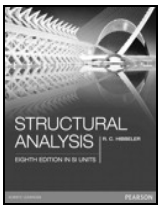
ISBN-10: 9810686323
ISBN-13: 9789810686321
896pp © 2011 Paper

Basic Approach
This is a concise and well-illustrated introduction to the theory and application of statics and mechanics of materials used in many engineering disciplines. It boasts unique pedagogical features such as visualisation tools that help accelerate understanding and develop problem-solving skills in students.
This four-coloured text in SI units is a combined abridged version of two of Hibbeler's best-selling titles, namely Engineering Mechanics Statics 12th edition in SI Units and Mechanics of Materials 8th edition in SI Units. The book's hallmark remains the same as the unabridged versions, that is having a strong emphasis on drawing a free-body diagram, as well as selecting an appropriate coordinate system and an associated sign convention when the equations of mechanics are applied. Many realistic analysis and design applications are presented, which involve mechanical elements and structural members often encountered in engineering practice.

Table of Contents

Statics
1 General Principles
2 Force Vectors
3 Force System Resultants
4 Equilibrium of a Rigid Body
5 Structural Analysis
6 Center of Gravity, Centroid and Moment of Inertia
Mechanics of Materials
7 Stress and Strain
8 Mechanical Properties of Materials
9 Axial Load
10 Torsion
11 Bending
12 Transverse Shear
13 Combined Loadings

14 Stress and Strain Transformation
15 Design of Beams and Shafts
16 Deflection of Beams and Shafts
17 Buckling of Columns



Structural Analysis Si, 8/e

Russell C. Hibbeler
Tan Kiang Hwee

ISBN-10: 9810687133
ISBN-13: 9789810687137
704pp © 2012 Paper

Basic Approach
For courses in Structural Analysis.
This book provides students with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphases are placed on teaching students to both model and analyze a structure. Procedures for Analysis, Hibbeler's problem solving methodologies provide student with a logical, orderly method to follow when applying theory.

Table of Contents

1 Types of Structures and Loads
2 Analysis of Statically Determinate Structures
3 Analysis of Statically Determinate Trusses
4 Internal Loadings Developed in Structural Members
5 Cables and Arches
6 Influence Lines for Statically Determinate Structures
7 Approximate Analysis of Statically Indeterminate Structures
8 Deflections
9 Deflections Using Energy Methods
10 Analysis of Statically Indeterminate Structures by the ForceMethod
11 Displacement Method of Analysis: Slope-Deflection Equations
12 Displacement Method of Analysis: Moment Distribution
13 Beams and Frames Having Nonprismatic Members
14 Truss Analysis Using the Stiffness Method
15 Beam Analysis Using the Stiffness Method
16 Plane Frame Analysis Using the Stiffness Method

Construction Planning and Scheduling, 4/e

Jimmie W. Hinze, *University of Florida*

ISBN-10: 013269963X
ISBN-13: 9780132699631
264pp ©2012 Paper

Basic Approach
For courses in Construction Planning and Scheduling and Construction Management.
Construction Planning and Scheduling, Fourth Edition offers broad coverage of all major scheduling subjects. This comprehensive resource is designed for construction management, planning and scheduling. It follows a logical progression, introducing precedence diagramming early and following with chapters on activity durations, resource allocations, network schedules, and more. It reflects current trends in scheduling (short-interval scheduling, computer scheduling, linear scheduling etc.) and includes chapters on arrow diagramming and PERT. With an eye on application, it includes a unique discussion of contract provisions related to scheduling and incorporates a sample project throughout.

Table of Contents

1. Introduction
2. Developing a Network Model
3. Precedence Diagrams
4. Determining Activity Durations
5. Time in Contract Provisions
6. Resource Allocation and Resource Leveling
7. Money and Network Schedules
8. Project Monitoring and Control
9. Computer Scheduling
10. Earned Value: A Means for Integrating Costs and Schedule
11. The Impact of Scheduling Decisions on Productivity
12. CPM In Dispute Resolution and Litigation
13. Short-Interval Schedules
14. Linear Scheduling

15. PERT: Program Evaluation and Review Technique
16. Arrow Diagrams

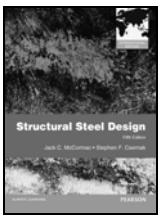
Welding, 1/e
David J. Hoffman
Kevin R. Dahle
David J. Fisher

ISBN-10: 0132349779
ISBN-13: 9780132349772
640pp ©2012 Cloth

Basic Approach
For all courses in welding, and related courses in topics such as welding safety, welding codes, destructive and non-destructive weld testing, welding symbols, welding metallurgy, and welding power sources.
Drawing on 50+ years of combined instructional experience, the authors of *Welding* fuse simplicity and technology to deliver exactly what today's students need. Built from the ground up -- beginning with an experienced author team's vision and an extensively reviewed table of contents -- *Welding* provides essential coverage of safety, theory, key skills, easy-to-read reference charts and tables, detailed step-by-step procedures, and much more. Clear and concise, this consistently-organized, reader-friendly text flows logically and includes just the right amount of information for today's student. It is supported by more than 70 minutes of instructional video presentations, as well as the latest in interactive online learning technology, MyWeldingLab.

Table of Contents

PART I. Introductory Materials
1. Welding Jobs and Employment Skills
2. Welding Safety
PART II. Commonly Used Welding Processes
3. Shielded Metal Arc Welding
4. Gas Metal Arc Welding
5. Flux Cored Arc Welding
6. Gas Tungsten Arc Welding
PART III. Other Welding and Related Processes
7. Other Welding Processes
8. Cutting Processes
PART IV. Metals and Alloys
9. Metals and Welding Metallurgy
10. Welding Alloys
PART V. Welding Related Concentrations
11. Welding Symbols
12. Welding Codes and Testing
13. Welding Design
14. Welding Costs
15. Power Sources
PART VI. Supplementary Information



Structural Steel Design, 5/e
Jack C. McCormac, *Clemson University*
Stephen F. Csernak

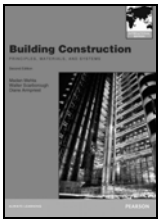
ISBN-10: 0273751352
ISBN-13: 9780273751359
736pp ©2012 Paper Bound with PIN

Basic Approach
For undergraduate courses in Steel Design.
This best selling text has been fully updated to conform to the latest American Manual of Steel Construction. The material is presented in an easy-to-read student-friendly style.

Table of Contents

1 Introduction to Structural Steel Design
2 Specifications, Loads, and Methods of Design
3 Analysis of Tension Members
4 Design of Tension Members
5 Introduction to Axially Loaded Compression Members
6 Design of Axially Loaded Compression Members
7 Design of Axially Loaded Compression Members (Continued) and Column Base Plates
8 Introduction to Beams
9 Design of Beams for Moments

10 Design of Beams–Miscellaneous Topics (Shear, Deflection, etc.)
11 Bending and Axial Force
12 Bolted Connections
13 Eccentrically Loaded Bolted Connections and Historical Notes on Rivets
14 Welded Connections
15 Building Connections
16 Composite Beams
17 Composite Columns
18 Cover-Plated Beams and Built-up Girders
19 Design of Steel Buildings



Building Construction: Principles, Materials, & Systems, 2/e

Medan Mehta, *University of Texas at Arlington*
Walter Scarborough, *HKS, Inc.*
Diane Armpriest, *University of Idaho*

ISBN: 9780132927291

ISBN-10: 0132927292
ISBN-13: 9780132927291
976pp ©2013 Paper

Basic Approach

For one or two semester courses in Construction Methods and Materials and Design courses in Architecture.
The science of building construction and design is evolving more quickly than ever before. The second edition of this outstanding text builds on the previous version. It incorporates the latest updates available, features hundreds of new pieces of artwork, and is now in FULL COLOR! Written by an author team with decades of experience in architecture, building construction, engineering, and teaching, *Building Construction: Principles, Materials & Systems 2nd Edition* is a comprehensive and fully illustrated introduction to construction methods and materials.
Continuing on with the books unique organization, Principles of Construction are covered in Part One and Materials and Systems of Construction are covered in Part Two. This organization fosters a definitive understanding of general concepts before moving on to more complex concepts. Emphasizing a visual approach to learning, it includes more than 1,400 original illustrations and an extra large trim size (9" x 12") that provides an open and inviting layout that students are sure to appreciate.
Plus! A completely revamped and expanded companion student website, "MyConstructionKit", is also available!

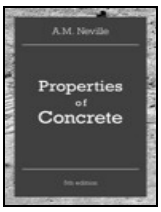
Table of Contents

Part 1: Principles

1 An Overview of the Building Delivery Process—How Buildings Come into Being
2 Construction Regulations and Standards
3 Loads on Buildings
4 Load Resistance—The Structural Properties of Materials
5 Properties of the Envelope–I: Thermal Properties
6 Properties of the Envelope–II: Air and Water Vapor Control
7 Fire-Related Properties
8 Acoustical Properties of Materials
9 Principles of Joints and Sealants (Expansion and Contraction Control)
10 Principles of Sustainable Construction

Part 2: Materials and Systems

11 Soils and Excavations
12 Below-Grade Construction: Foundation Systems and Basements
13 Materials for Wood Construction–I (Lumber)
14 Materials for Wood Construction–II (Engineered Wood, Fasteners, and Connectors)
15 Wood Light Frame Construction–I
16 Wood Light Frame Construction–II
17 Structural Insulated Panel System Construction
18 The Material Steel and Steel Components
19 Structural Steel Construction
20 Light-Gauge Steel Construction
21 Lime, Portland Cement, and Concrete
22 Concrete Construction–I (Formwork, Reinforcement and Slabs-on-Ground)
23 Concrete Construction–II (Site-Cast and Precast Concrete Systems)
24 Masonry Materials–I (Mortar and Brick)
25 Masonry Materials–II (Concrete Masonry Units, Natural Stone, and Glass Masonry Units)
26 Masonry and Concrete Bearing Wall Construction
27 Exterior Wall Cladding–I (Principles of Rainwater Infiltration Control)
28 Exterior Wall Cladding–II (Masonry, Precast Concrete, and GFRC)
29 Exterior Wall Cladding–III (Stucco, EIFS, Natural Stone, and Insulated Metal Panels)
30 Glass, Glazing and Light-Transmitting Plastics
31 Windows and Doors
32 Exterior Wall Cladding–IV (Glass-Aluminum Wall Systems)
33 Roofing–I (Low-Slope Roofs)
34 Roofing–II (Steep Roofs)
35 Stairs
36 Floor Coverings
37 Ceilings



Properties of Concrete, 5 / e

A. M. Neville

ISBN-10: 0273755803
ISBN-13: 9780273755807
872pp ©2012 Paper

Basic Approach

Properties of Concrete, first published in 1963, has been internationally acclaimed as the definitive work of reference on the subject for both the professional and the student engineer.
The fifth edition has been updated to reflect advances in concrete technology over the past decade, yet it still retains the original aim: to provide reliable, comprehensive and practical information on the properties and use of concrete, and the selection of mix proportions all based on scientific observations and the author's extensive engineering experience.
The emphasis is on understanding the behaviour of concrete and relating it to physical and chemical phenomena involved in its performance in service, so that the reader to achieve the best possible construction in concrete. Also, the scientific basis of the information provided is invaluable in planning research and in the interpretation of test results.

Table of Contents

1 Portland Cement
2 Cementitious materials of different types
3 Properties of aggregate
4 Fresh concrete
5 Admixtures
6 Strength of concrete
7 Further aspects of hardened concrete
8 Temperature effects in concrete
9 Elasticity, shrinkage, and creep
10 Durability of concrete
11 Effects of freezing and thawing and of chlorides
12 Testing of hardened concrete
13 Concretes with particular properties
14 Selection of concrete mix proportions (mix design)

Statics and Strength of Materials for Architecture and Building Construction, 4 / e

Barry S. Onouye, University of Washington - Seattle
Kevin Kane, University of Washington

ISBN-10: 013507925X
ISBN-13:9780135079256
624pp ©2012 Cloth

Basic Approach

For courses in Statics, Strength of Materials, and Structural Principles in Architecture, Construction, and Engineering Technology.
Statics and Strength of Materials for Architecture and Building Construction, Fourth Edition, offers students an accessible, visually oriented introduction to structural theory that doesn't rely on calculus. Instead, illustrations and examples of building frameworks and components enable students to better visualize the connection between theoretical concepts and the experiential nature of real buildings and materials. This new edition includes fully worked examples in each chapter, a companion website with extra practice problems, and expanded treatment of load tracing.

Table of Contents

1. Introduction
2. Statics
3. Analysis of Selected Determinate Structural Systems
4. Load Tracing
5. Strength of Materials
6. Cross-Sectional Properties of Structural Members
7. Bending and Shear in Simple Beams
8. Bending and Shear Stresses in Beams
9. Column Analysis and Design
10. Structural Connections
11. Structure, Construction, and Architecture

Construction Accounting & Financial Management, 3/e

Steven Peterson, *Weber State University*

ISBN-10: 0132675056
ISBN-13:9780132675055
360pp ©2013 Cloth

Basic Approach

For all courses in construction accounting and construction finance, and for courses in engineering economics taught in construction management programs.

This book helps construction professionals and construction management students master the principles of financial management, and adapt and apply them to the challenge of profitably managing construction companies. It integrates content that has traditionally been taught through separate accounting, finance, and engineering economics texts. Students learn how to account for a construction company's financial resources; how to manage its costs, profits, and cash flows; how to evaluate different sources of funding a company's cash needs; and how to quantitatively analyze financial decisions. Readers gain hands-on experience through 220 example problems and over 390 practice problems, many of them based on situations actually encountered by the author. This edition adds more than 100 new discussion questions, and presents financial equations and accounting transactions more visually to support more intuitive learning.

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Part I. Introduction to Construction Financial Management
1. Construction Financial Management
Part II. Accounting for Financial Resources
2. Construction Accounting Systems
3. Accounting Transactions
4. More Construction Accounting
5. Depreciation
6. Analysis of Financial Statements
Part III. Managing Costs and Profits
7. Managing Costs
8. Determining Labor Burden
9. Managing General Overhead Costs
10. Setting Profit Margins for Bidding
11. Profit Center Analysis
Part IV. Managing Cash Flows
12. Cash Flows for Construction Projects
13. Projecting Income Taxes
14. Cash Flows for Construction Companies
15. Time Value of Money
16. Financing a Company's Financial Needs
Part V. Making Financial Decisions
17. Tools for Making Financial Decisions
18. Income Taxes and Financial Decisions

Construction Estimating Using Excel, 2/e

Steven Peterson, Weber State University

ISBN-10: 0138007195
ISBN-13: 9780138007195
432pp ©2012 Paper

Basic Approach

For beginning to intermediate courses in construction estimating in two- and four-year construction management programs.

Construction Estimating with Excel, Second Edition, introduces readers to the fundamental principles of estimating. Using drawing sets, real-world exercises, and examples, the text offers students critical estimating experience. The book moves step-by-step through the estimating process, discussing the art of estimating, the quantity takeoff, how to put costs to the estimate, and how to finalize the bid. As students progress through the text they are shown how Microsoft Excel can be used to improve the estimating process. Because it introduces spreadsheets as a way of increasing estimating productivity and accuracy, the book can help both beginning and experienced estimators improve their skills.

Table of Contents

PART I INTRODUCTION TO ESTIMATING
1 The Art of Estimating
2 Overview of the Estimating and Bidding Process>
3 Introduction to Excel
PART II THE QUANTITY TAKEOFF
4 Fundamentals of the Quantity Takeoff
5 Concrete

6 Masonry
7 Metals
8 Woods, Plastics, and Composites
9 Thermal and Moisture Protection
10 Openings
11 Finishes
12 Fire Suppression
13 Plumbing
14 HVAC
15 Electrical
16 Earthwork
17 Exterior Improvements
18 Utilities
PART III PUTTING COSTS TO THE ESTIMATE
19 Material Pricing
20 Labor Productivity and Hours
21 Labor Rates
22 Equipment Costs
23 Crew Rates
24 Subcontract Pricing
25 Markups
26 Pricing Extensions
27 Avoiding Errors in Estimates
PART IV FINALIZING THE BID
28 Submitting the Bid
29 Project Buyout
30 The Estimate as the Basis of the Schedule
31 Ethics
PART V ADVANCED ESTIMATING WITH EXCEL
32 Converting Existing Forms
33 Creating New Forms
34 Proposals and Beyond

Pearson's Pocket Guide to Construction Management, 1/e

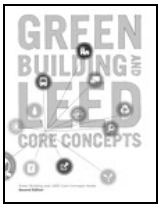
Steven Peterson, Weber State University

ISBN-10: 0132156105
ISBN-13: 9780132156103
240pp ©2012 Paper

Basic Approach
For use as a supplement to construction management courses and as a reference text for internship classes where the student is required to work in industry.
Covering many of the key concepts in a construction management, the *Pocket Guide to Construction Management* is designed to give students and construction professionals a portable reference to the key concepts and formulas needed to run a successful construction project and company. The *Pocket Guide* covers many areas of construction management, including construction math, contract documents, contracts, bonds, insurance, drawing symbols, construction communication, document tracking, building codes, estimating, wages, equipment costs, job roles, sustainable, building information modeling, critical path scheduling, safety, time value of money, life cycle analysis, earned value, ethics, and construction materials. The *Pocket Guide* offers many examples of how to apply these concepts, yet it is small enough to fit in a shirt pocket!

Table of Contents

1 Construction Math
2 The Project Manual
3 The Drawings
4 Construction Communications
5 Building Codes
6 Overview of Estimating
7 Introduction to Construction Management
8 Ethics
9 Construction Materials



Green Building and LEED Core Concepts, 2/e

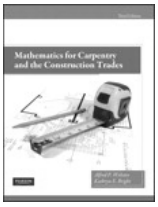
USGBC

ISBN-10: 013291509X
ISBN-13: 9780132915090
400pp ©2012 Paper

Basic Approach
For all courses on green buildings and LEED, including courses intended to help students earn the LEED Green Associate credential.
The second edition of this outstanding reference provides a solid foundation for the study of green building and LEED (Leadership in Energy and Environmental Design). It explains many of the important tenets of green building while providing strategies for implementation and specific case studies designed to broaden your knowledge of green building.
Green Building and LEED Core Concepts is an excellent resource in preparing for the Green Building Certification Institute's (GBCI) LEED Green Associate exam. When paired with the *USGBC LEED Green Associate Study Guide* it provides a powerful combination for exam preparation. A money-saving, value package of these two outstanding publications is also available!

Table of Contents

Imagine It
Section 1. Introduction to Green Buildings and Communities
Section 2. Sustainable Thinking
Section 3. Putting Sustainable Thinking to Work: New Processes for Building Green
Section 4. Green Building Core Concepts and Application Strategies
Section 5. U.S. Green Building Council and Its Programs
Conclusion
Glossary



Mathematics for Carpentry and the Construction Trades, 3/e
Alfred P. Webster, *Eastern Maine Technical College*
Kathryn E. Bright, *Eastern Maine Technical College*

ISBN-10: 0135114004
ISBN-13: 9780135114001
408pp ©2012 Paper

Basic Approach
For courses in Mathematics for Carpenters; Building Construction; Carpentry; Applied Math - Carpentry.

Mathematics for Carpentry and the Construction Trades, Third Edition, offers a unique approach based on the authors' experience in building construction and applied education. Loaded with photographs and detailed drawings, the text illustrates the underlying mathematics in each step of the building process. The text's problems, infused with the authors' real industry experience, provide students with relevant examples of problems they will face in the construction and carpentry trades. Problems include step-by-step summary explanations of their solutions with the necessary steps highlighted for easy identification. After giving students a solid foundation in math, the text then leads them through the steps of a construction project and applying the mathematical skills involved in completing the project.

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1. Whole Numbers
2. Fractions
3. Decimal Fractions
4. Weights, Measures, and Conversions
5. Ratio and Proportion
6. Percents
7. Angles and Triangles
8. Areas and Perimeters
9. Volume and Surface Area of Solids
10. The Metric System
11. Board Measure
12. Lumber Pricing
13. Footings, Foundations, and Slabs
14. Girders, Sill Plates, Bridging, Floor Joists, and Floor Covering
15. Wall Framing
16. Roofs I: Common Rafters
17. Introduction to the Framing Square
18. Overhangs
19. Roofs II: Hip Rafters–The Conventional Case
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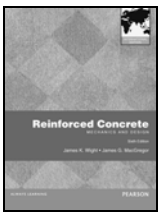
21. Roof IV: Jack Rafters.
22. Roofs V: Hip and Valley Rafters–The Unconventional Cases
23. Stairs
24. Framing and Covering Gable Ends; Exterior Trim
25. Wall and Roof Covering
26. Heat Loss, Return on Investment; Operating Costs
27. The Estimating Process



Reinforced Concrete: Mechanics and Design, 6/e
James K. Wight
James G. MacGregor

ISBN-10: 0273764543
ISBN-13: 9780273764540
1176pp ©2012 Paper

Basic Approach
Reinforced concrete design encompasses both the art and science of engineering. This book presents the theory of reinforced concrete as a direct application of the laws of statics and mechanics of materials. In addition, it emphasizes that a successful design not only satisfies design rules, but also is capable of being built in a timely fashion and for a reasonable cost. A multi-tiered approach makes *Reinforced Concrete: Mechanics and Design* an outstanding textbook for a variety of university courses on reinforced concrete design. Topics are normally introduced at a fundamental level, and then move to higher levels where prior educational experience and the development of *engineering judgment* will be required.

Table of Contents

1 INTRODUCTION
2 THE DESIGN PROCESS
3 MATERIALS
4 FLEXURE: BEHAVIOR AND NOMINAL STRENGTH OF BEAM SECTIONS
5 FLEXURAL DESIGN OF BEAM SECTIONS
6 SHEAR IN BEAMS
7 TORSION
8 DEVELOPMENT, ANCHORAGE, AND SPLICING OF REINFORCEMENT
9 SERVICEABILITY
10 CONTINUOUS BEAMS AND ONE-WAY SLABS
11 COLUMNS: COMBINED AXIAL LOAD AND BENDING
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13 TWO-WAY SLABS: BEHAVIOR, ANALYSIS, AND DESIGN
14 TWO-WAY SLABS: ELASTIC AND YIELD-LINE ANALYSES
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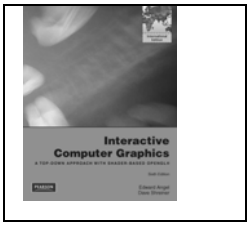
16 SHEAR FRICTION, HORIZONTAL SHEAR TRANSFER, AND COMPOSITE CONCRETE BEAMS
17 DISCONTINUITY REGIONS AND STRUT-AND-TIE MODELS
18 WALLS AND SHEAR WALLS
19 DESIGN FOR EARTHQUAKE RESISTANCE



Interactive Computer Graphics: A Top-Down Approach with Shader-Based OpenGL, 6/e

Edward Angel, *University of New Mexico*
Dave Shreiner, *ARM, Inc.*

ISBN-10: 027375226X
ISBN-13: 9780273752264
768pp ©2012 Paper

Basic Approach

This book is suitable for undergraduate students in computer science and engineering, for students in other disciplines who have good programming skills, and for professionals.

Computer animation and graphics–once rare, complicated, and comparatively expensive–are now prevalent in everyday life from the computer screen to the movie screen. ***Interactive Computer Graphics: A Top-Down Approach with Shader-Based OpenGL®, 6e,*** is the only introduction to computer graphics text for undergraduates that fully integrates OpenGL 3.1 and emphasizes application-based programming. Using C and C++, the top-down, programming-oriented approach allows for coverage of engaging 3D material early in the course so students immediately begin to create their own 3D graphics. Low-level algorithms (for topics such as line drawing and filling polygons) are presented after students learn to create graphics.

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1 GRAPHICS SYSTEMS AND MODELS
2 GRAPHICS PROGRAMMING
3 GEOMETRIC OBJECTS AND TRANSFORMATIONS
4 VIEWING
5 LIGHTING AND SHADING
6 FROM VERTICES TO FRAGMENTS
7 DISCRETE TECHNIQUES
8 MODELING AND HIERARCHY
9 PROCEDURAL METHODS
10 CURVES AND SURFACES
11 ADVANCED RENDERING

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A Gift of Fire: Social, Legal, and Ethical Issues for Computing and the Internet, 4/e

Sara Baase

ISBN-10: 027376859X
ISBN-13: 9780273768593
528pp ©2012 Paper

Basic Approach

A Gift of Fire: Social, Legal, and Ethical Issues for Computing and the Internet, 4e is ideal for courses in Computer Ethics and Computers and Society.

Sara Baase explores the social, legal, philosophical, ethical, political, constitutional, and economic implications of computing and the controversies they raise. With a computer scientist's perspective, and with historical context for many issues, she covers the issues students will face both as members of a technological society and as professionals in computer-related fields. A primary goal is to develop computer professionals who understand the implications of what they create and how it fits into society at large.

Objects First with Java: A Practical Introduction Using BlueJ, 5/e

David J. Barnes, *University of Kent*
Michael Kölling, *University of Kent*

ISBN-10: 0132835541
ISBN-13: 9780132835541
560pp ©2012 Paper

Basic Approach

For introductory courses in Java/Introduction to Programming and Object-Oriented Programming.

This is the only introductory programming textbook that uses the BlueJ integrated development environment

(IDE) to teach introductory and object-oriented programming principles using Java. Its close integration with the BlueJ development environment allows this book to focus on key aspects of object-oriented software development from day one. BlueJ's clear visualization of classes and objects means that students can immediately appreciate the differences between them, and gain a much better understanding of the nature of an object than they would from simply reading source code. Unlike traditional textbooks, the chapters are not ordered by language features but by software development concepts. Language features are introduced as a response to the problems to be solved. A large number of different, interesting projects are used to provide variety and avoid the monotony of a running problem. This book takes an "objects first" approach to teaching the traditionally difficult concepts of objects in a manipulatable visual form. Throughout, the emphasis is on developing a practical approach to programming, with students encouraged to add code to existing programs rather than working with an intimidating sheet of blank paper. This textbook is printed in four-color to aid pedagogy and student learning.

Table of Contents

Part 1 Foundations of object orientation
1 Objects and classes
2 Understanding class definitions
3 Object interaction
4 Grouping objects
5 More-sophisticated behavior
6 Designing classes
7 Well-behaved objects
Part 2 Application structures
8 Improving structure with inheritance
9 More about inheritance
10 Further abstraction techniques
11 Building graphical user interfaces
12 Handling errors
13 Designing applications
14 A case study

Prolog Programming for Artificial Intelligence, 4/e

Ivan Bratko

ISBN-10: 0321417461
ISBN-13: 9780321417466
696pp ©2012 Paper

Basic Approach

The fourth edition of this best-selling guide to Prolog and Artificial Intelligence has been updated to include key developments in the field while retaining its lucid approach to these topics. New and extended topics include Constraint Logic Programming, *abductive* reasoning and partial order planning.
Divided into two parts, the first part of the book introduces the programming language Prolog, while the second part teaches Artificial Intelligence using Prolog as a tool for the implementation of AI techniques.

This textbook is meant to teach Prolog as a practical programming tool and so it concentrates on the art of using the basic mechanisms of Prolog to solve interesting problems. The fourth edition has been fully revised and extended to provide an even greater range of applications, making it a self-contained guide to Prolog, AI or AI Programming for students and professional programmers.

Table of Contents

Part i The Prolog Language
1 Introduction to Prolog
2 Syntax and Meaning of Prolog Programs
3 Lists, Operators, Arithmetic
4 Programming Examples
5 Controlling Backtracking
6 Built-in Predicates
7 Constraint Logic Programming
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11 Problem-Solving as Search
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13 Best-First Search: Minimising Time and Space
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15 Knowledge Representation and Expert Systems
16 Probabilistic Reasoning with Bayesian Networks
17 Planning
18 Partial order planning and GRAPHPLAN

19 Scheduling, Simulation and Control with CLP
20 Machine Learning
21 Inductive Logic Programming
22 Qualitative Reasoning
23 Language Processing with Grammar Rules
24 Game Playing
25 Meta-Programming

Computer Science: An Overview, 11/e

J. Glenn Brookshear, *Marquette University*

ISBN-10: 0273751395
ISBN-13: 9780273751397
624pp ©2012 Paper

Basic Approach

Computer Science: An Overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field. Accessible to students from all backgrounds, Glenn Brookshear uses a language-independent context to encourage the development of a practical, realistic understanding of the field. An overview of each of the important areas of Computer Science (e.g. Networking, OS, Computer Architecture, Algorithms) provides students with a general level of proficiency for future courses.

The **Eleventh Edition** features two new contributing authors (David Smith — Indiana University of PA; Dennis Brylow — Marquette University), new, modern examples, and updated coverage based on current technology.

Table of Contents

0 Introduction
1 Data Storage
2 Data Manipulation
3 Operating Systems
4 Networking and the Internet
5 Algorithms
6 Programming Languages
7 Software Engineering
8 Data Abstractions
9 Database Systems
10 Computer Graphics
11 Artificial Intelligence
12 Theory of Computation
Appendixes

Data Abstraction & Problem Solving with C++: Walls and Mirrors, 6/e

Frank Carrano, *University of Rhode Island*
Timothy Henr

ISBN-10: 0273768417
ISBN-13: 9780273768418
928pp ©2013 Paper

Basic Approach

The classic, best-selling *Data Abstraction and Problem Solving with C++: Walls and Mirrors* book provides a firm foundation in data abstraction that emphasizes the distinction between specifications and implementation as the basis for an object-oriented approach. This new edition offers the latest C++ features and an introduction to using Doxygen––a documentation generator for C++, enhanced coverage of Software Engineering concepts and additional UML diagrams.

Frank's **Making it Real blog** http://frank-m-carrano.com/blog/ extends his textbooks and lectures to a lively discussion with instructors and students about teaching and learning computer science.

Follow Frank on Twitter: http://twitter.com/Frank_M_Carrano
Find him on Facebook: https://www.facebook.com/makingitreal

Data Structures and Abstractions with Java, 3/e

Frank Carrano, *University of Rhode Island*

ISBN-10: 0273764764
ISBN-13: 9780273764762
1008pp ©2012 Paper

Basic Approach
For one- or two-semester courses in data structures (CS-2) in the departments of Computer Science, Computer Engineering, Business, and Management Information Systems.

This is the most student-friendly data structures text available that introduces ADTs in individual, brief chapters — each with pedagogical tools to help students master each concept. Using the latest features of Java, this unique object-oriented presentation makes a clear distinction between specification and implementation to simplify learning, while providing maximum classroom flexibility.

Visit author Frank Carrano's Making it Real blog -- a discussion with instructors and students about teaching and learning computer science.
http://frank-m-carrano.com/blog/

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6 Stack Implementations
7 Recursion
8 An Introduction to Sorting
9 Faster Sorting Methods
10 Queues, Deques, and Priority Queues
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12 Lists
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14 A List Implementation That Links Data
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16 Sorted Lists
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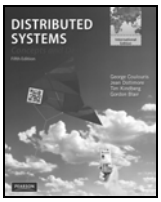
19 Dictionaries
20 Dictionary Implementations
21 Introducing Hashing
22 Hashing as a Dictionary Implementation
23 Trees
24 Tree Implementations
25 A Binary Search Tree Implementation
26 A Heap Implementation
27 Balanced Search Trees



Distributed Systems: Concepts and Design, 5/e

George Coulouris, *Cambridge University*
Jean Dollimore, *Formerly of Queen Mary, University of London*
Tim Kindberg, *matter 2 media*
Gordon Blair, *Lancaster University*

ISBN-10: 0273760599
ISBN-13: 9780273760597
1008pp ©2012 Paper

Basic Approach
Broad and up-to-date coverage of the principles and practice in the fast moving area of Distributed Systems.

Distributed Systems provides students of computer science and engineering with the skills they will need to design and maintain software for distributed applications. It will also be invaluable to software engineers and systems designers wishing to understand new and future developments in the field.

From mobile phones to the Internet, our lives depend increasingly on distributed systems linking computers and other devices together in a seamless and transparent way. The fifth edition of this best-selling text continues to provide a comprehensive source of material on the principles and practice of distributed computer systems and the exciting new developments based on them, using a wealth of modern case studies to illustrate their design and development**.** The depth of coverage will enable students to evaluate existing distributed systems and design new ones.

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2 System Models
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6 Indirect Communication
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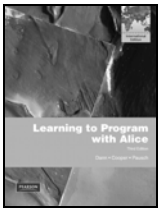
16 Transactions and Concurrency Control
17 Distributed Transactions
18 Replication
New challenges
19 Mobile and Ubiquitous Computing
20 Distributed Multimedia Systems

Substantial Case Study
21 Designing Distributed Systems: Google Case Study



Learning to Program with Alice (w/ CD ROM), 3/e

Wanda P. Dann, *Carnegie Mellon University*
Stephen Cooper, *St. Joseph's University*
Randy Pausch, *Carnegie Mellon University*

ISBN-10: 013255741X
ISBN-13: 9780132557412
384pp ©2012 Paper

Basic Approach
Appropriate for all one-semester pre-CS1 and computer literacy courses, and for integration into the first weeks of many introductory CS1 courses.

Alice was designed to make programming concepts easier to teach and learn. In the Third Edition of *Learning to Program with Alice*, Alice's creators offer a complete full-color introduction to the interactive Alice rogramming environment. The authors make extensive use of program visualization to establish an easy, intuitive relationship between program constructs and the 3D graphics animation action in Alice. Students discover how Alice blends traditional problem-solving techniques with Hollywood-style storyboarding. Fundamental object-oriented programming concepts and language syntax are taught independently. Programming concepts can be taught from either an objects-first or an objects-early approach, with an optional early introduction to events. The book's Java-like syntax allows students to view their program code, simplifying their transitions to Java, C++, C#, or other object-oriented languages. This new edition includes over 60% revised exercises and a "sneak peek" at Alice 3.0.

Table of Contents

Part I: Introduction to Alice

1 Getting Started with Alice
2 Program Design and Implementation
3 Programming: Putting Together the Pieces

Part II: Object-Oriented and Event-Driven Programming Concepts

4 Classes, Objects, Methods and Parameters
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Part III: Using Functions and Control Statements

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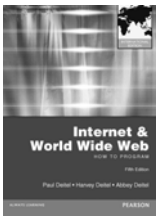
7 Repetition: Definite and Conditional Loops
8 Repetition: Recursion

Part IV: Advanced Topics

9 Lists and List Processing
10 Variables and Revisiting Inheritance
11 What's Next?

Appendix A: Using Alice
Appendix B: Managing the Alice Interface



Internet and World Wide Web How To Program, 5/e

(Harvey & Paul) Deitel & Associates
Harvey Deitel
Abbey Deitel

ISBN-10: 0273764020
ISBN-13: 9780273764021
992pp ©2012 Paper

Basic Approach

Internet & World Wide Web How to Program, 5e is appropriate for both introductory and intermediate-level client-side and server-side programming courses. The book is also suitable for professionals who want to update their skills with the latest Internet and web programming technologies.
Internet and World Wide Web How to Program, 5e introduces students with little or no programming experience to the exciting world of Web-Based applications.¿ This new edition focuses on HTML5 and the related technologies in its ecosystem, diving into the exciting new features of HTML5, CSS3, the latest edition of JavaScript (ECMAScript 5) and HTML5 canvas. At the heart of the book is the Deitel signature "live-code approach"–concepts are presented in the context of complete working HTML5 documents, CSS3 stylesheets, JavaScript scripts, XML documents, programs and database files, rather than in code snippets. Each complete code example is accompanied by live sample executions.The Deitels focus on popular key technologies that will help readers build Internet- and web-based applications that interact with other applications and with databases. These form the basis of the kinds of enterprise-level, networked applications that are popular in industry today. After mastering the material in this book, readers will be well prepared to build real-world, industrial strength, Web-based applications.

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2 Introduction to HTML5: Part 1
3 Introduction to HTML5: Part 2
4 Introduction to Cascading Style Sheets™ (CSS): Part 1
5 Introduction to Cascading Style Sheets™ (CSS): Part 2
6 JavaScript: Introduction to Scripting
7 JavaScript: Control Statements I
8 JavaScript: Control Statements II
9 JavaScript: Functions
10 JavaScript: Arrays
11 JavaScript: Objects
12 Document Object Model (DOM): Objects and Collections
13 JavaScript Event Handling: A Deeper Look
14 HTML5: Introduction to canvas
15 XML
16 Ajax-Enabled Rich Internet Applications with XML and JSON
17 Web Servers (Apache and IIS)
18 Database: SQL, MySQL, LINQ and Java DB
19 PHP
20 Web App Development with ASP.NET in C#
21 Web App Development with ASP.NET in C#: A Deeper Look
22 Web Services in C#
23 Web App Development with ASP.NET in Visual Basic

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Android: How to Program, 1/e

Paul Deitel
Harvey Deitel

ISBN-10: 0132990547
ISBN-13: 9780132990547
850pp ©2013 Cloth

Basic Approach

The Deitels' App-Driven, Live Code Approach is simply the best way to master Android programming! The Deitels teach Android programming through sixteen complete, working Android Apps. Each chapter presents new concepts through a single App. The authors first discuss what the App does, show screen shots, test drive the App, and present an overview of the technologies and architecture used to build it. Next, the authors walk through building the App, presenting complete code and providing a detailed "Live Code" walkthrough. As part of the code walkthrough, they discuss essential programming concepts, and demonstrate the functionality of

relevant Android 2.x APIs. Readers will gain hands-on experience with a wide spectrum of essential Android APIs. The book also has an extensive introduction to programming using the Java language, making this book appropriate for Java courses that want to add an app-programming flavor.

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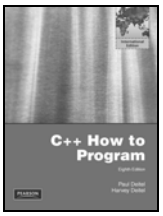
C How to Program, 7/e

Paul Deitel
Harvey Deitel

ISBN-10: 013299044X
ISBN-13: 9780132990448
900pp ©2013 Paper

Basic Approach
For introductory courses in C Programming. Also for courses in Programming for Engineers, Programming for Business, and Programming for Technology.
The Deitels' *How to Program* series offers unparalleled breadth and depth of object-oriented programming concepts and intermediate-level topics for further study. Using the Deitels' signature "Live-Code™ Approach," this complete, authoritative introduction to C programming introduces fundamentals of structured programming, and covers relevant features of C language's C-201X standard. It also includes an updated treatment of C++ for those who want to transition to object-oriented concepts. Finally, new material on security is added to this edition.
View the Deitel Buzz online to learn more about the newest publications from the Deitels.



C++ How to Program, 8/e

Paul Deitel
Harvey Deitel

ISBN-10: 0273752766
ISBN-13: 9780273752769
1104pp ©2012 Paperback

Basic Approach
For Introduction to Programming (CS1) and other more intermediate courses covering programming in C++. Also appropriate as a supplement for upper-level courses where the instructor uses a book as a reference for the C++ language.

This best-selling comprehensive text is aimed at readers with little or no programming experience. It teaches programming by presenting the concepts in the context of full working programs and takes an early-objects approach. The authors emphasize achieving program clarity through structured and object-oriented programming, software reuse and component-oriented software construction. The Eighth Edition encourages students to connect computers to the community, using the Internet to solve problems and make a difference in our world. All content has been carefully fine-tuned in response to a team of distinguished academic and industry reviewers.

View the Deitel Buzz online to learn more about the newest publications from the Deitels.

Table of Contents

1 Introduction to Computers and C++
2 Introduction to C++ Programming
3 Introduction to Classes, Objects and Strings
4 Control Statements: Part1
5 Control Statements: Part2
6 Functions and an Introduction to Recursion
7 Arrays and Vectors
8 Pointers
9 Classes: A Deeper Look, Part1
10 Classes: A Deeper Look, Part2
11 Operator Overloading; Class string
12 Object-Oriented Programming: Inheritance
13 Object-Oriented Programming: Polymorphism
14 Templates
15 Stream Input/Output
16 Exception Handling: A Deeper Look
17 File Processing
18 Class string and String Stream Processing
19 Searching and Sorting
20 Custom Templatized Data Structures
21 Bits, Characters, C Strings and structs
22 Standard Template Library (STL)
23 Boost Libraries, Technical Report 1 and C++0x
24 Other Topics
Chapters on the Web

Chapters 25—26 and Appendices F—I are PDF documents posted online at the book's Companion Website, which is accessible from www.pearsonhighered.com/deitel.
25 ATM Case Study, Part 1: Object-Oriented Design with the UML
26 ATM Case Study, Part 2: Implementing an Object-Oriented Design

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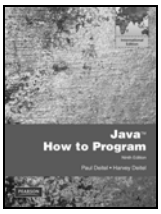

Java How to Program (early objects), 9/e

Paul Deitel
Harvey Deitel

ISBN-10: 0273759760
ISBN-13: 9780273759768
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Basic Approach
The Deitels' groundbreaking *How to Program* series offers unparalleled breadth and depth of object-oriented programming concepts and intermediate-level topics for further study. This survey of Java programming contains an optional extensive OOD/UML 2 case study on developing and implementing the software for an automated teller machine.

Table of Contents

1 Introduction to Computers and Java
2 Introduction to Java Applications
3 Introduction to Classes, Objects, Methods and Strings
4 Control Statements: Part 1
5 Control Statements: Part 2
6 Methods: A Deeper Look
7 Arrays and ArrayLists
8 Classes and Objects: A Deeper Look
9 Object-Oriented Programming: Inheritance
10 Object-Oriented Programming: Polymorphism
11 Exception Handling: A Deeper Look
12 ATM Case Study, Part 1: Object-Oriented Design with the UML
13 ATM Case Study Part 2: Implementing an Object-Oriented Design
14 GUI Components: Part 1
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27 Networking
28 Accessing Databases with JDBC
29 JavaServer™ Faces Web Apps: Part 1
30 JavaServer™ Faces Web Apps: Part 2
31 Web Services

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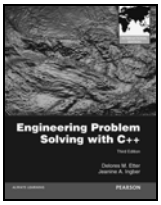
Simply Visual Basic 2010, 4/e

Paul Deitel
Harvey Deitel

ISBN-10: 0132990601
ISBN-13: 9780132990608
896pp ©2013 Paper

Basic Approach
For introductory courses in Visual Basic Programming, offered in departments of Information Technology, Computer Science or Business.
Merging the concept of a lab manual with that of a conventional textbook, the Deitels have crafted an innovative approach that enables students to learn programming while having a mentor-like book by their side. This best-seller blends the Deitel™ signature Live-Code™ Approach with their Application-Driven™ methodology. Students learn programming and Visual Basic by working through a set of applications.¿ Each tutorial builds upon previously learned concepts while learning new ones. An abundance of self assessment exercises are available at the end of most chapters to reinforce key ideas.
This approach makes it possible to cover a wealth of programming constructs within the Visual Basic 2010 environment.



Engineering Problem Solving with C++, 3/e

Delores M. Etter
Jeanine A. Ingber, *University of New Mexico*

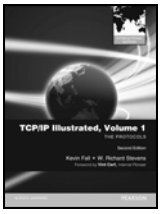
ISBN-10: 0273764055
ISBN-13: 9780273764052
624pp ©2012 Paper

Basic Approach
For one/two semester courses in Engineering and Computer Science at the freshman/sophomore level.

This text is a clear, concise introduction to problem solving and the C++ programming language. The authors' proven five-step problem solving methodology is presented and then incorporated in every chapter of the text. Outstanding engineering and scientific applications are used throughout; all applications are centered around the theme of engineering challenges in the 21st century.

Table of Contents

1 Introduction to Computing and Engineering Problem Solving
2 Simple C++ Programs
3 Control Structures: Selection
4 Control Structures: Repetition
5 Working with Data Files
6 Modular Programming with Functions
7 One-Dimensional Arrays
8 Two-Dimensional Arrays
9 An Introduction to Pointers
10 Advanced Topics



TCP/IP Illustrated, Volume 1: The Protocols, 2/e

Kevin R. Fall
W. Richard Stevens

ISBN-10: 0321817176
ISBN-13: 9780321817174
1056pp ©2012 Paper

Basic Approach
More than 162,000 networking professionals have relied on W. Richard Stevens' classic **TCP/IP Illustrated, Volume 1** to gain the detailed understanding of TCP/IP they need to be effective. Now, the world's leading TCP/IP best-seller has been thoroughly updated to reflect a new generation of TCP/IP-based networking technologies. **TCP/IP Illustrated, Volume 1, Second Edition** doesn't just describe protocols: it enables readers to observe how these protocols operate under different conditions, using publicly available tools, and explains why key design decisions were made. The result: readers gain a deep understanding of how TCP/IP protocols function, and why they function that way. Now thoroughly updated by long-time networking expert Kevin Fall, this brand-new second edition's extensive new coverage includes: " Remote procedure call " Identity management (access control / authentication) " Network and transport layer security (authentication / privacy) " File access protocols, including NFS and SMB/CIFS " Host initialization and DHCP " NAT and firewalls " E-mail " Web and web services " Wireless and wireless security " New tools, including Ethereal, nmap and netcat

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1 Introduction
2 The Internet Address Architecture
3 Link Layer
4 ARP Address Resolution Protocol
5 The Internet Protocol (IP)
6 System Configuration DHCP and Autoconfiguration
7 Firewalls and Network Address Translation (NAT)
8 ICMPv4 and ICMPv6 Internet Control Message Protocol
9 Broadcasting and Local Multicasting (IGMP and MLD)
10 User Datagram Protocol (UDP) and IP Fragmentation
11 Name Resolution and the Domain Name System (DNS)
12 TCP The Transmission Control Protocol (Preliminaries)
13 TCP Connection Management
14 TCP Timeout and Retransmission
15 TCP Data Flow and Window Management
16 TCP Congestion Control
17 TCP Keepalive
18 Security EAP, IPsec, TLS, DNSSEC, and DKIM

Basics of Web Design: HTML5 & CSS3, 1/e

Terry Felke-Morris, *Harper College*

ISBN-10: 0137003382
ISBN-13: 9780137003389
368pp ©2012 Paper

Basic Approach

Basics of Web Design: HTML5 and CSS3 is intended for use in a beginning web design or web development course. The text covers the basic concepts that web designers need to develop their skills:

- Introductory Internet and Web concepts
- Creating web pages with HTML5
- Configuring text, color, and page layout with Cascading Style Sheets
- Configuring images and multimedia on web pages
- Web design best practices
- Accessibility, usability, and search engine optimization considerations
- Obtaining a domain name and web host
- Publishing to the Web

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1 Internet and Web Basics
2 Web Page Structural Basics
3 Hyperlink Basics
4 Web Design Basics
5 Cascading Style Sheets Basics
6 Web Graphics and Multimedia Basics
7 More CSS Basics
8 CSS Page Layout Basics
9 Table Basics
10 Form Basics
11 Multimedia Basics
12 Web Publishing Basics

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Web Development and Design Foundations with HTML5, 6/e

Terry Felke-Morris, *Harper College*

ISBN-10: 0273774506
ISBN-13: 9780273774501
696pp ©2013 Paper

Basic Approach

Using Hands-On Practice exercises and Web Site Case Studies to motivate readers, **Web Development and Design Foundations with HTML5** includes all the necessary lessons to guide students in developing highly effective Web sites. A well-rounded balance of hard skills (HTML5, XHTML, CSS, JavaScript) and soft skills (Web Design, e-commerce, Web site promotion strategies) presents everything beginning Web developers need to know to build and promote successful Web sites.

Table of Contents

1. Introduction to the Internet and World Wide Web
2. HTML Basics
3. Configuring Color and Text with CSS
4. Visual Elements and Graphics
5. Web Design
6. Page Layout
7. More on Links and Layout
8. Tables
9. Forms
10. Web Development
11. Web Multimedia and Interactivity
12. E-Commerce Overview
13. Web Promotion
14. A Brief Look at JavaScript

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Computer Vision: A Modern Approach, 2/e

David A. Forsyth, *University of Illinois at Urbana-Champaign*
Jean Ponce, *Ecole Normale Superieure, Paris*

ISBN-10: 0135051266
ISBN-13: 9780135051269
792pp ©2012 Paper

Basic Approach
Appropriate for upper-division undergraduate- and graduate-level courses in computer vision found in departments of Computer Science, Computer Engineering and Electrical Engineering.

This textbook provides the most complete treatment of modern computer vision methods by two of the leading authorities in the field. This accessible presentation gives both a general view of the entire computer vision enterprise and also offers sufficient detail for students to be able to build useful applications. Students will learn techniques that have proven to be useful by first-hand experience and a wide range of mathematical methods.

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I IMAGE FORMATION
1 Geometric Camera Models
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20 Looking at People
21 Image Search and Retrieval
VII BACKGROUND MATERIAL
22 Optimization Techniques

Starting Out with C++: From Control Structures through Objects, 7/e

Tony Gaddis, *Haywood Community College*

ISBN-10: 0273759833
ISBN-13: 9780273759836
1248pp ©2012 Paper

Basic Approach
Tony Gaddis's accessible, step-by-step presentation helps beginning students understand the important details necessary to become skilled programmers at an introductory level. Gaddis motivates the study of both programming skills and the C++ programming language by presenting all the details needed to understand the "how" and the "why"–but never losing sight of the fact that most beginners struggle with this material. His approach is both gradual and highly accessible, ensuring that students understand the logic behind developing high-quality programs.

In ***Starting Out with C++: From Control Structures through Objects,*** Gaddis covers control structures, functions, arrays, and pointers before objects and classes. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, and an abundance of exercises appear in every chapter. This text is intended for either a one-semester accelerated introductory course or a traditional two-semester sequence covering C++ programming.

MyProgrammingLab, Pearson's new online homework and assessment tool, is available with this edition.

Table of Contents

1 Introduction to Computers and Programming
2 Introduction to C++
3 Expressions and Interactivity
4 Making Decisions
5 Loops and Files
6 Functions
7 Arrays
8 Searching and Sorting Arrays
9 Pointers
10 Characters, C-Strings, and More About the string Class
11 Structured Data
12 Advanced File Operations
13 Introduction to Classes
14 More About Classes
15 Inheritance, Polymorphism, and Virtual Functions
16 Exceptions, Templates, and the Standard Template Library (STL)
17 Linked Lists
18 Stacks and Queues
19 Recursion
20 Binary Trees

Starting Out with C++: From Control Structures through Objects, Brief Edition, 7/e

Tony Gaddis, *Haywood Community College*

ISBN-10: 0132772892
ISBN-13: 9780132772891
1032pp ©2012 Paper

Basic Approach

In ***Starting Out with C++: From Control Structures through Objects, Brief Edition, 7e,*** Gaddis takes a problem-solving approach, inspiring students to understand the logic behind developing quality programs while introducing the C++ programming language. This style of teaching builds programming confidence and enhances each student's development of programming skills. This edition in the **Starting Out** Series covers the core programming concepts that are introduced in the first semester introductory programming course. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, and an abundance of exercises appear in every chapter.

This book includes the first 15 chapters from the best–selling ***Starting Out with C++: From Control Structures through Objects,*** and covers the core programming concepts that are introduced in the first semester introductory programming course.

MyProgrammingLab, Pearson's new online homework and assessment tool, is available with this edition.

Table of Contents

1 Introduction to Computers and Programming
2 Introduction to C++
3 Expressions and Interactivity
4 Making Decisions
5 Loops and Files
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9 Pointers
10 Characters, C-Strings, and More About the string Class
11 Structured Data
12 Advanced File Operations
13 Introduction to Classes
14 More About Classes
15 Inheritance, Polymorphism, and Virtual Functions

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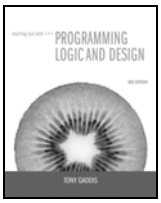
Starting Out with Java: From Control Structures through Objects, 5/e

Tony Gaddis, Haywood Community College

ISBN-10: 0273774425
ISBN-13: 9780273774426
1104pp ©2013 Paper

Basic Approach
In Starting Out with Java: From Control Structures through Objects, Gaddis covers procedural programming–control structures and methods–before introducing object-oriented programming. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, and an abundance of exercises appear in every chapter.
MyProgrammingLab, Pearson's new online homework and assessment tool, is available with this edition.



Starting Out with Programming Logic and Design, 3/e
Tony Gaddis, *Haywood Community College*

ISBN-10: 0132805456
ISBN-13: 9780132805452
624pp ©2013 Paper

ISBN: 9780132805452

Basic Approach
Starting Out with Programming Logic and Design, Third Edition, is a language-independent introductory programming book that orients students to programming concepts and logic without assuming any previous programming experience. In the successful, accessible style of Tony Gaddis' best-selling texts, useful examples and detail-oriented explanations allow students to become comfortable with fundamental concepts and logical thought processes used in programming without the complication of language syntax. Students gain confidence in their program design skills to transition into more comprehensive programming courses.
The book is ideal for a programming logic course taught as a precursor to a language-specific introductory programming course, or for the first part of an introductory programming course.

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Starting Out with Python, 2/e
Tony Gaddis, *Haywood Community College*

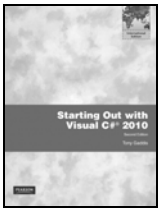
ISBN-10: 0132741385
ISBN-13: 9780132741385
648pp ©2012 Paper

Basic Approach
In *Starting Out with Python®, Second Edition* Tony Gaddis' evenly-paced, accessible coverage introduces students to the basics of programming and prepares them to transition into more complicated languages. Python, an easy-to-learn and increasingly popular object-oriented language, allows readers to become comfortable with the fundamentals of programming without the troublesome syntax that can be challenging for novices. With the knowledge acquired using Python, students gain confidence in their skills and learn to recognize the logic behind developing high-quality programs.

Starting Out with Python discusses control structures, functions, arrays, and pointers before objects and classes. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, detail-oriented explanations, and an abundance of exercises appear in every chapter. This text is intended for a one-semester introductory programming course for students with limited programming experience.

Table of Contents

1 Introduction to Computers and Programming
2 Input, Processing, and Output
3 Simple Functions
4 Decision Structures and Boolean Logic
5 Repetition Structures
6 Value-Returning Functions and Modules
7 Files and Exceptions
8 Lists and Tuples
9 More About Strings
10 Dictionaries and Sets
11 Classes and Object-Oriented Programming
12 Inheritance
13 Recursion
14 GUI Programming



Starting out with Visual C# 2010, 2/e

Tony Gaddis, *Haywood Community College*

ISBN-10: 0132612143
ISBN-13: 9780132612142
792pp ©2012 Paper

Basic Approach
Tony Gaddis's accessible, step-by-step presentation helps beginning students understand the important details necessary to become skilled programmers at an introductory level. Gaddis motivates the study of both programming skills and the Visual C# programming language by presenting all the details needed to understand the "how" and the "why"—but never losing sight of the fact that most beginners struggle with this material. His approach is both gradual and highly accessible, ensuring that students understand the logic behind developing high-quality programs.

In *Starting Out With Visual C# 2010*, Gaddis makes a very detailed and evenly-paced presentation of both programming and C# syntax concepts so all readers will be able to follow along. His GUI-based approach to teaching C# will resonate with students in CS, IT, and CIS courses.

Table of Contents

1 Introduction to Computers and Programming
2 Introduction to Visual C#
3 Processing Data
4 Making Decisions
5 Loops, Files, and Random Numbers
6 Modularizing Your Code with Methods
7 Arrays and Lists
8 More About Processing Data
9 Classes and Multiform Projects
10 Inheritance and Polymorphism
11 Databases

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Starting Out with Java: From Control Structures through Data Structures, 2/e

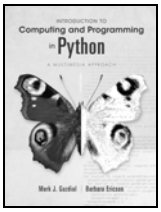
Tony Gaddis, *Haywood Community College*
Godfrey Muganda, *North Central College*

ISBN-10: 0321772229
ISBN-13: 9780321772220
1392pp ©2012 Paper

Basic Approach
Starting Out with Java: From Control Structures through Data Structures is designed to be used in a 2 or 3 semester/quarter sequence for beginning programmers. Tony Gaddis emphasizes problem-solving and program design by teaching the Java programming language through a step-by-step detailed presentation. He introduces procedural programming early and covers control structures and methods before objects. Students are engaged and have plenty of opportunity to practice using programming concepts through practical tools that include end-of-section and chapter exercises, case studies and programming projects.

Table of Contents

1 Introduction to Computers and Java
2 Java Fundamentals
3 Decision Structures
4 Loops and Files
5 Methods
6 A First Look at Classes
7 A First Look at GUI Applications
8 Arrays and the ArrayList Class
9 A Second Look at Classes and Objects
10 Text Processing and More about Wrapper Classes
11 Inheritance
12 Exceptions and Advanced File I/O
13 Advanced GUI Applications
14 Applets and More
15 Recursion
16 Sorting, Searching, and Algorithm Analysis
17 Generics
18 Collections
19 Array-Based Lists
20 Linked Lists
21 Stacks and Queues
22 Binary Trees, AVL Trees, and Priority Queues



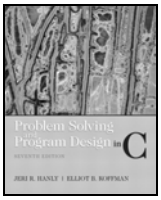
Introduction to Computing and Programming in Python, 3/e

Mark J. Guzdial, *Georgia Institute of Technology*
Barbara Ericson

ISBN-10: 0132923513
ISBN-13: 9780132923514
432pp ©2013 Paper

ISBN: 9780132923514

Basic Approach
This unique book uses multimedia applications to motivate introductory computer science majors or non-majors. The book's hands-on approach shows how programs can be used to build multimedia computer science applications that include sound, graphics, music, pictures, and movies. The students learn a key set of computer science tools and topics, as well as programming skills; such as how to design and use algorithms, and practical software engineering methods. The book also includes optional coverage of HCI, as well as rudimentary data structures and databases using the user-friendly Python language for implementation. Authors Guzdial and Ericson also demonstrate how to communicate compatibly through networks and do concurrent programming.



Problem Solving and Program Design in C, 7/e

Jeri R. Hanly, *University of Wyoming*
Elliot B. Koffman, *Temple University*

ISBN-10: 0132936496
ISBN-13: 9780132936491
936pp ©2013 Paper

ISBN: 9780132936491

Basic Approach
Problem Solving and Program Design in C is one of the best-selling introductory programming textbooks using the C programming language. It embraces a balanced approach to program development and an introduction to ANSI C. The book provides a gradual introduction to pointers and covers programming with functions early in the text. In later chapters, students learn to implement fundamental data structures such as lists, stacks, queues, and trees in a language that fosters their understanding of stack- and heap-dynamic memory allocation and programmer-controlled pointers. To enhance students' learning experience it offers the right amount of pedagogical features that include end-of-section and chapter exercises, examples and case studies, syntax and program style display boxes, error discussions and end-of-chapter projects.

Advanced Visual Basic 2010, 5/e

Kip R. Irvine, *Florida International University*
Tony Gaddis, *Haywood Community College*

ISBN-10: 0132316749
ISBN-13: 9780132316743
696pp ©2012 Paper

Basic Approach
In the **Fifth Edition, *Advanced Visual Basic 2010*** helps those who are familiar with the fundamentals of Visual Basic 2010 programming harness its power for more advanced uses. Coverage of sophisticated tools and techniques used in the industry today include various database, ASP.NET, LINQ, WPF and Web Services topics. After studying the book and completing the programming exercises, students should be able to create small- to medium-sized Windows and Web applications that use databases. They will also gain essential concepts in object-oriented programming, event-driven programming, and test-driven development. Each subject is presented in an understandable style that makes this book a leader in the field.

Table of Contents

1. Classes
2. Input Validation and User Interfaces
3. Collections
4. Using SQL Server Databases
5. ADO.NET Database Objects
6. Advanced Classes
7. LINQ to SQL
8. Creating Web Applications
9. Programming Web Forms
10. Web Applications with Databases
11. Web Services and Windows Presentation Foundation
12. Reports, MDI, Interfaces, and Polymorphism

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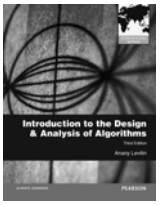
Computer Networking 6/e

James F. Kurose
Keith W. Ross

ISBN-10: 0273768964
ISBN-13: 9780273768968
864pp ©2013 Paper

Basic Approach
Building on the successful top-down approach of previous editions, the Sixth Edition of Computer Networking continues with an early emphasis on application-layer paradigms and application programming interfaces (the top layer), encouraging a hands-on experience with protocols and networking concepts, before working down the protocol stack to more abstract layers.

This book has become the dominant book for this course because of the authors' reputations, the precision of explanation, the quality of the art program, and the value of their own supplements.



Introduction to the Design and Analysis of Algorithms, 3/e

Anany Levitin, *Villanova University*

ISBN-10: 027376411X
ISBN-13: 9780273764113
592pp ©2012 Paper

Basic Approach
Based on a new classification of algorithm design techniques and a clear delineation of analysis methods, ***Introduction to the Design and Analysis of Algorithms*** presents the subject in a coherent and innovative manner. Written in a student-friendly style, the book emphasizes the understanding of ideas over excessively formal treatment while thoroughly covering the material required in an introductory algorithms course. Popular puzzles are used to motivate students' interest and strengthen their skills in algorithmic problem solving. Other learning-enhancement features include chapter summaries, hints to the exercises, and a detailed solution manual.

Table of Contents

1 Introduction
2 Fundamentals of the Analysis of Algorithm Efficiency
3 Brute Force and Exhaustive Search
4 Decrease-and-Conquer
5 Divide-and-Conquer
6 Transform-and-Conquer
7 Space and Time Trade-Offs
8 Dynamic Programming
9 Greedy Technique
10 Iterative Improvement
11 Limitations of Algorithm Power
12 Coping with the Limitations of Algorithm Power

Java Software Solutions: Foundations of Program Design, 7/e

John Lewis, *Virginia Tech*
William Loftus

ISBN-10: 0273751476
ISBN-13: 9780273751472
832pp ©2012 Paper

Basic Approach
Java Software Solutions teaches a foundation of programming techniques to foster well-designed object-oriented software. Heralded for its integration of small and large realistic examples, this worldwide best-selling text emphasizes building solid problem-solving and design skills to write high-quality programs.

MyProgrammingLab, Pearson's new online homework and assessment tool, is available with this edition.

Table of Contents

1 Introduction
2 Data and Expressions
3 Using Classes and Objects
4 Writing Classes

5 Conditionals and Loops
6 More Conditionals and Loops
7 Object-Oriented Design
8 Arrays
9 Inheritance
10 Polymorphism
11 Exceptions
12 Recursion
13 Collections

Introduction to Java Programming, Comprehensive Version, 9/e

Y. Daniel Liang

ISBN-10: 0273771388
ISBN-13: 9780273771388
1328pp ©2013 Paper

Basic Approach

Daniel Liang teaches concepts of problem-solving and object-oriented programming using a fundamentals-first approach. Beginning programmers learn critical problem-solving techniques then move on to grasp the key concepts of object-oriented, GUI programming, advanced GUI and Web programming using Java. For a 1-, 2-, or 3-semester CS1 course sequence.

Table of Contents

1 Introduction to Computers, Programs, and Python
2 Elementary Programming
3 Introduction to Functions, Strings, and Objects
4 Selections
5 Loops
6 Functions
7 Object-Oriented Programming
8 Thinking in Objects
9 GUI Programming Using Tkinter
10 Lists
11 Multi-dimensional Lists
12 Inheritance and Polymorphism
13 Files and Exception Handling
14 Tuples, Sets, and Dictionaries
15 Recursion
Chapters 16-23 are bonus Web s on DS
16 Developing Efficient Algorithms
17 Sorting
18 Linked Lists, Stacks, Queues, and Priority Queues
19 Binary Search Trees
20 AVL Trees
21 Hashing
22 Graphs and Applications
23 Weighted Graphs and Applications

Introduction to Programming Using Python, 1/e

Y. Daniel Liang, *Armstrong Atlantic State University*

ISBN-10: 0132747189
ISBN-13: 9780132747189
576pp ©2013 Paper

Basic Approach

Introduction to Programming with Python 3 is intended for use in the introduction to programming course. Daniel Liang is known for his “fundamentals-first” approach to teaching programming concepts and techniques. “Fundamentals-first” means that students learn fundamental programming concepts like selection statements, loops, and functions, before moving into defining classes. Students learn basic logic and programming concepts before moving into object-oriented programming, and GUI programming.

Another aspect of ***Introduction to Programming with Python 3*** is that in addition to the typical programming examples that feature games and some math, Liang gives an example or two early in the chapter that uses a simple graphic to engage the students. Rather than asking them to average 10 numbers together, they learn the concepts in the context of a fun example that generates something visually interesting.

Using the graphics examples is optional in this textbook. Turtle graphics can be used in Chapters 1-5 to introduce the fundamentals of programming and Tkinter can be used for developing comprehensive graphical user interfaces and for learning object-oriented programming.

Table of Contents

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Chapters 16-23 are bonus Web s on DS
16 Developing Efficient Algorithms
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20 AVL Trees
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22 Graphs and Applications
23 Weighted Graphs and Applications

Data Structures and Other Objects Using Java, 4/e

Michael Main

ISBN-10: 0132911507
ISBN-13: 9780132911504
848pp ©2012 Paper

Basic Approach

Data Structures and Other Objects Using Java is a gradual, "just-in-time" introduction to Data Structures for a CS2 course.

Each chapter provides a review of the key aspects of object-oriented programming and a syntax review, giving students the foundation for understanding significant programming concepts. With this framework they are able to accomplish writing functional data structures by using a five-step method for working with data types; understanding the data type abstractly, writing a specification, using the data type, designing and implementing the data type, and analyzing the implementation. Students learn to think analytically about the efficiency and efficacy of design while gaining exposure to useful Java classes libraries.

The flexibility of *Data Structures and Other Objects Using Java* allows instructors to structure their course around a certain emphasis, such as early coverage of recursion and sorting, or to accelerate the pace of the course.

Table of Contents

1 THE PHASES OF SOFTWARE DEVELOPMENT
2 JAVA CLASSES AND INFORMATION HIDING
3 COLLECTION CLASSES
4 LINKED LISTS
5 GENERIC PROGRAMMING
6 STACKS
7 QUEUES
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12 SORTING
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14 GRAPHS

Web Services Cross Enterprise Computing, 2/e

Michael Papazoglou

ISBN-10: 0273732161
ISBN-13: 9780273732167
856pp @2013 Paper

Basic Approach

Web services allow new and improved ways for enterprise applications to communicate and integrate with each other over the Web and, as such, are having a profound effect on both the worlds of business and of software development.

The new edition of this bestselling book offers a comprehensive and up to date treatment of web services and Service Oriented Architecture (SOA), giving you all you need to know to gain a solid foundation in this area. Building upon the clear, accessible approach of the first edition, it provides a complete introduction to the concepts, principles, technology and standards of web services. The book also provides an in depth examination of good design and development practises for SOA applications in organisations

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Comprehensive case study

PART I Basics
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PART II Enabling Infrastructure
2 Distributed Computing Infrastructure
3 Brief Overview of XML

PART III Core functionality and standards
4 SOAP Simple Object Access Protocol
5 Describing Web services
6 Registering and Discovering Services

PART IV Event notification and Service Oriented Architectures
7 Service Addressing and Notification
8 Service-Oriented Architectures

PART V Service composition and transactions
9 Service Composition And Business Processes
10 Service Transactions

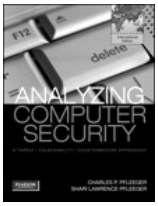
PART VI SOA security and policies
11 Securing SOA and Web Services
12 Service policies

PART VII Service semantics and business protocols
13 Semantics and Web Services
14 Business Protocols and Standards

PART VIII SOA modeling, design and development
15 SOA-Based Application Modeling
16 SOA Development Lifecycle

PART IX Service Management
17 SOA and Web Service Management

PART X Emerging trends
18 Cloud Computing



Analyzing Computer Security: A Threat / Vulnerability / Countermeasure Approach, 1/e

Charles P. Pfleeger
Shari Lawrence Pfleeger

ISBN-10: 0132839407
ISBN-13: 9780132839402
848pp ©2012 Paper

Basic Approach

In this book, the authors of the 20-year best-selling classic **Security in Computing** take a fresh, contemporary, and powerfully relevant new approach to introducing computer security. Organized around attacks and mitigations, the Pfleegers' new **Analyzing Computer Security** will attract readers' attention by building on the high-profile security failures they may have already encountered in the popular media. Each section starts with an attack description. Next, the authors explain the vulnerabilities that have allowed this attack to occur. With this foundation in place, they systematically present today's most effective countermeasures for blocking or weakening the attack. One step at a time, readers progress from attack/problem/harm to solution/protection/mitigation, building the powerful real-world problem solving skills they need to succeed as information security professionals. **Analyzing Computer Security** addresses crucial contemporary computer security themes throughout, including effective security management and risk analysis; economics and quantitative study; privacy, ethics, and laws; and the use of overlapping controls. The authors also present significant new material on computer forensics, insiders, human factors, and trust.

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3 2 + 2 = 5
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5 The Keys to the Kingdom
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6 My Cup Runneth Over
7 He Who Steals My Purse
8 The Root of All Evil
9 Scanning the Horizon
10 Do You Hear What I Hear?
11 I Hear You Loud and Clear
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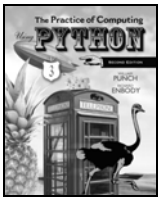
12 Disregard That Man Behind the Curtain
13 Not All Is as It Seems
14 Play It [Again] Sam, or, Let's Look at the Instant Replay
15 I Can't Get No Satisfaction
Interlude C Cyber Warfare
16 'Twas Brillig, and the Slithy Toves
17 Peering Through the Window
18 My 100,000 Nearest and Dearest Friends
Afterword



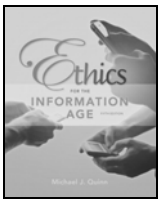
Practice of Computing Using Python, The, 2/e

William F. Punch, Michigan State University
Richard Enbody, Michigan State University

ISBN-10: 013280557X
ISBN-13: 9780132805575
744pp ©2013 Paper

ISBN: 9780132805575

Basic Approach
For CS1 courses in Python Programming (including majors and non-majors).
A problem-solving approach to programming with Python.
The Practice of Computing Using Python introduces CS1 students (majors and non-majors) to computational thinking using Python. With data-manipulation as a theme, students quickly see the value in what they're learning and leave the course with a set of immediately useful computational skills that can be applied to problems they encounter in future pursuits. The book takes an "object-use-first" approach—writing classes is covered only after students have mastered using objects.



Ethics for the Information Age, 5/e

Mike Quinn

ISBN-10: 0132855534
ISBN-13: 9780132855532
544pp ©2013 Paper

ISBN: 9780132855532

Basic Approach
This book is appropriate for any standalone "computers and society" or "computer ethics" course offered by a computer science, business, or philosophy department, as well as special "modules" in any advanced CS course. In an era where information technology changes constantly, a thoughtful response to these rapid changes requires a basic understanding of IT history, an awareness of current issues, and a familiarity with ethics. **Ethics for the Information Age** is unique in its balanced coverage of ethical theories used to analyze problems encountered by computer professionals in today's environment. By presenting provocative issues such as social networking, government surveillance, and intellectual property from all points of view, this market-leading text challenges students to think critically and draw their own conclusions, which ultimately prepares them to become responsible, ethical users of future technologies.

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1 Catalysts for Change
2 Introduction to Ethics
3 Networked Communications
4 Intellectual Property
5 Information Privacy
6 Privacy and the Government
7 Computer and Network Security
8 Computer Reliability
9 Professional Ethics

Java: An Introduction to Problem Solving and Programming, 6/e

Walter Savitch, *University of California, San Diego*

ISBN-10: 0273751425
ISBN-13: 9780273751427
984pp ©2012 Paper

Basic Approach

Java: An Introduction to Problem Solving and Programming, 6e, is ideal for introductory Computer Science courses using Java, and other introductory programming courses in departments of Computer Science, Computer Engineering, CIS, MIS, IT, and Business. Students are introduced to object-oriented programming and important concepts such as design, testing and debugging, programming style, interfaces inheritance, and exception handling. The Java coverage is a concise, accessible introduction that covers key language features. Objects are covered thoroughly and early in the text, with an emphasis on application programs over applets.
Updated for Java 7, the Sixth Edition contains additional programming projects, case studies, and VideoNotes.

MyProgrammingLab, Pearson's new online homework and assessment tool, is available with this edition.

Table of Contents

1 Introduction to Computers and Java
2 Basic Computation
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6 More About Objects and Methods
7 Arrays
8 Inheritance, Polymorphism and Interfaces
9 Exception Handling
10 Streams and File I/O
11 Recursion
12 Dynamic Data Structures and Generics
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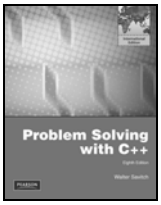

Problem Solving with C++, 8/e

Walter Savitch, *University of California, San Diego*

ISBN-10: 0273752189
ISBN-13: 9780273752189
1056pp ©2012 Paper

Basic Approach

Problem Solving with C++ continues to be the most widely used textbook by students and instructors in the introduction to programming and C++ language course. Through each edition, hundreds and thousands of students have valued Walt Savitch's approach to programming, which emphasizes active reading through the use of well-placed examples and self-test examples. Created for the beginner, this book focuses on cultivating strong problem-solving and programming techniques while introducing students to the C++ programming language.

MyProgrammingLab, Pearson's new online homework and assessment tool, is available with this edition.

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1 Introduction to Computers and C++ Programming
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12 Separate Compilation and Namespaces
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16 Exception Handling
17 Templates
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Appendices

Absolute C++, 5/e

Walter Savitch, *University of California, San Diego*
Kenrick Mock

ISBN-10: 0273769324
ISBN-13: 9780273769323
984pp ©2013 Paper

Basic Approach
For undergraduate students in Computer Science and Computer Programming courses.
Praised for providing an engaging balance of thoughtful examples and explanatory discussion, best-selling author Walt Savitch and contributor Kenrick Mock explain concepts and techniques in a straightforward style using understandable language and code enhanced by a suite of pedagogical tools.***Absolute C++*** is appropriate for both introductory and intermediate programming courses introducing C++.
MyProgrammingLab, Pearson's online homework and assessment tool, is available with this edition.

Absolute Java, 5/e

Walter Savitch, University of California, San Diego
Kenrick Mock

ISBN-10: 0273764799
ISBN-13: 9780273764793
1272pp ©2013 Paper

Basic Approach
For undergraduate students in Computer Science and Computer Programming courses.
Praised for providing an engaging balance of thoughtful examples and explanatory discussion, best-selling author Walt Savitchs explain concepts and techniques in a straightforward style using understandable language and code enhanced by a suite of pedagogical tools. ***Absolute Java*** is appropriate for both introductory and intermediate programming courses introducing Java.

Complete A+ Guide to PC Repair Fifth Edition Update, The, 5/e

Cheryl Schmidt

ISBN-10: 0132727595
ISBN-13: 9780132727594
816pp ©2012 Paper

Basic Approach
Cheryl Schmidt's ***The Complete A+ Guide to PC Repair, Fifth Edition Update*** presents the fundamentals of computer desktop and laptop installation, configuration, maintenance, and networking through simple, step-by-step instruction based on CompTIA A+® 2011 Edition objectives. With a focused emphasis on security and customer service skills, this comprehensive book on computer repair introduces the most important tools students need to become professional, customer-friendly technicians using today's technology.

The A+ Certification Exam criteria are being updated, effective January 2011, to include Windows 7. The Fifth Edition Update now includes Windows 7 material.

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1 • Introduction to Computer Repair
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5 • Logical Troubleshooting
6 • Memory
7 • Storage Devices
8 • Multimedia Devices
9 • Other Peripherals
10 • Internet Connectivity
11 • Basic Windows and Windows Commands

12 • Windows XP, Vista, and 7
13 • Introduction to Networking
14 • Computer and Network Security
Online Chapter • Floppy Drives
Online Chapter • Windows 98
Online Chapter • Windows NT
Online Chapter • Windows 2000 Professional

Concepts of Programming Languages, 10/e

Robert W. Sebesta

ISBN-10: 0273769103
ISBN-13: 9780273769101
784pp ©2012 Paper

Basic Approach

For undergraduate students in Computer Science and Computer Programming courses.

Now in its Tenth Edition, Concepts of Programming Languages introduces students to the main constructs of contemporary programming languages and provides the tools needed to critically evaluate existing and future programming languages. Readers gain a solid foundation for understanding the fundamental concepts of programming languages through the author's presentation of design issues for various language constructs, the examination of the design choices for these constructs in some of the most common languages, and critical comparison of the design alternatives. In addition, Sebesta strives to prepare the reader for the study of compiler design by providing an in-depth discussion of programming language structures, presenting a formal method of describing syntax, and introducing approaches to lexical and syntactic analysis.

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1 Preliminaries
2 Evolution of the Major Programming Languages
3 Describing Syntax and Semantics
4 Lexical and Syntax Analysis
5 Names, Bindings, and Scopes
6 Data Types
7 Expressions and Assignment Statements
8 Statement-Level Control Structures
9 Subprograms
10 Implementing Subprograms
11 Abstract Data Types and Encapsulation Constructs
12 Support for Object-Oriented Programming
13 Concurrency
14 Exception Handling and Event Handling
15 Functional Programming Languages
16 Logic Programming Languages

Programming the World Wide Web, 7/e

Robert W. Sebesta, Univesity of Colorado, Colorado Springs

ISBN-10: 0132665816
ISBN-13: 9780132665810
800pp ©2013 Paper

Basic Approach

For undergraduate students who have completed a course in object-oriented programming

Programming the World Wide Web provides a comprehensive introduction to the tools and skills required for both client- and server-side programming, teaching students how to develop platform-independent sites using the most current Web development technology. Essential programming exercises are presented using a manageable progression: students begin with a foundational XHTML Web site and employ new languages and technologies to add features as they are discussed in the course. Readers with previous experience programming with an object-oriented language are guided through concepts relating to client-side and server-side programming.

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9 Introduction to PHP
10 Introduction to Ajax
11 Java Web Software
12 Introduction to ASP.NET
13 Database Access through the Web
14 Introduction to Ruby
15 Introduction to Rails

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Fluency with Information Technology: Skills, Concepts, and Capabilities, 5/e
Lawrence Snyder, University of Washington

ISBN-10: 0273774387
ISBN-13: 9780273774389
816pp ©2013 Paper

Basic Approach
Fluency with Information Technology: Skills, Concepts, and Capabilities equips readers who are already familiar with computers, the Internet, and the World Wide Web with a deeper understanding of the broad capabilities of technology. Through a project-oriented learning approach that uses examples and realistic problem-solving scenarios, Larry Snyder teaches readers to navigate information technology independently and become effective users of today's resources, forming a foundation of skills they can adapt to their personal and career goals as future technologies emerge.

Problem Solving and Programming Concepts, 9/e
Maureen Sprankle
Jim Hubbard

ISBN-10: 0273752219
ISBN-13: 9780273752219
512pp ©2012 Paper

Basic Approach
A core or supplementary text for one-semester, freshman/sophomore-level introductory courses taken by programming majors in Problem Solving for Programmers, Problem Solving for Applications, any Computer Language Course, or Introduction to Programming.

Revised to reflect the most current issues in the programming industry, this widely adopted text emphasizes that problem solving is the same in *all* computer languages, regardless of syntax. Sprankle and Hubbard use a generic, non-language-specific approach to present the tools and concepts required when using any programming language to develop computer applications. Designed for students with little or no computer experience — but useful to programmers at any level — the text provides step-by-step progression and consistent in-depth coverage of topics, with detailed explanations and many illustrations.

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17 Introduction to Concepts of Game Development Using Object-Oriented Programming
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Business Data Communications, 7/e

William Stallings

ISBN-10: 0273769162
ISBN-13: 9780273769163
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Basic Approach
For Business Data Communications, Data Communications, and introductory Networking for Business courses.

Covers the fundamentals of data communications, networking, distributed applications, and network management and security, Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff, structuring his text around requirements, ingredients, and applications. While making liberal use of real-world case studies and charts and graphs to provide a business perspective, the book also provides the student with a solid grasp of the technical foundation of business data communications. Throughout the text, references to the interactive, online animations supply a powerful tool in understanding complex protocol mechanisms.

No image available

Computer Organization and Architecture, 9/e

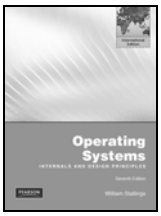
William Stallings

ISBN-10: 0273769197
ISBN-13: 9780273769194
768pp ©2013 Paper

Basic Approach
For undergraduates and professionals in computer science, computer engineering, and electrical engineering courses.

Learn the fundamentals of processor and computer design from the newest edition of this award-winning text.

Four-time winner of the best Computer Science and Engineering textbook of the year award from the Textbook and Academic Authors Association, Computer Organization and Architecture: Designing for Performance provides a thorough discussion of the fundamentals of computer organization and architecture, covering not just processor design, but memory, I/O, and parallel systems.Coverage is supported by a wealth of concrete examples emphasizing modern systems.



Operating Systems: Internals and Design Principles, 7/e

William Stallings

ISBN-10: 0273751506
ISBN-13: 9780273751502
816pp ©2012 Paper

Basic Approach
For introductory courses on operating systems.
Operating Systems: Internals and Design Principles provides a comprehensive and unified introduction to operating systems topics. Stallings emphasizes both design issues and fundamental principles in contemporary systems and gives readers a solid understanding of the key structures and mechanisms of operating systems. He

discusses design trade-offs and the practical decisions affecting design, performance and security. The book illustrates and reinforces design concepts and ties them to real-world design choices through the use of case studies in UNIX and Windows.
Operating Systems: Internals and Design Principles, 6e received the 2009 Textbook Excellence Award from the Text and Academic Authors Association (TAA)!

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20 Queuing Analysis

Computer Security: Principles and Practice, 2/e
William Stallings
Lawrence Brown

ISBN-10: 0273764497
ISBN-13: 9780273764496
816pp ©2012 Paper

Basic Approach
Computer Security: Principles and Practice, 2e, *is ideal for courses in Computer/Network Security.*

In recent years, the need for education in computer security and related topics has grown dramatically – and is essential for anyone studying Computer Science or Computer Engineering. This is the only text available to provide integrated, comprehensive, up-to-date coverage of the broad range of topics in this subject. In addition to an extensive pedagogical program, the book provides unparalleled support for both research and modeling projects, giving students a broader perspective.

It covers all security topics considered Core in the IEEE/ACM Computer Science Curriculum 2008: An Interim

Revision to CS 2001. This textbook can be used to prep for CISSP Certification, and includes in-depth coverage of Computer Security, Technology and Principles, Software Security, Management Issues, Cryptographic Algorithms, Internet Security and more.

The Text and Academic Authors Association named *Computer Security: Principles and Practice, 1e,* the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008.

Visit Stallings' Companion Website at http://williamstallings.com/ComputerSecurity/ for student and instructor resources and his Computer Science Student Resource site http://www.computersciencestudent.com/

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PART THREE: MANAGEMENT ISSUES
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PART FIVE NETWORK SECURITY
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24 Wireless Network Security

ONLINE CHAPTERS AND APPENDICES
25 Linux Security
26 Windows and Windows Vista Security

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Structured Computer Organization 6 / e
Andrew S Tanenbaum
Todd Austin

ISBN-10: 0273769243
ISBN-13: 9780273769248
800pp ©2013 Paper

Basic Approach
Structured Computer Organization, specifically written for undergraduate students, is a best-selling guide that provides an accessible introduction to computer hardware and architecture. This text will also serve as a useful resource for all computer professionals and engineers who need an overview or introduction to computer architecture.

This book takes a modern structured, layered approach to understanding computer systems. It's highly accessible - and it's been thoroughly updated to reflect today's most critical new technologies and the latest developments in computer organization and architecture. Tanenbaum's renowned writing style and painstaking research make this one of the most accessible and accurate books available, maintaining the author's popular method of presenting a computer as a series of layers, each one built upon the ones below it, and understandable as a separate entity.

Haskell: The Craft of Functional Programming, 3/e

Simon Thompson

ISBN-10: 0201882957
ISBN-13: 9780201882957
608pp ©2012 Paper

Basic Approach

Introducing functional programming in the Haskell language, this book is written for students and programmers with little or no experience. It emphasises the process of crafting programmes, problem solving and avoiding common programming pitfalls.
Covering basic functional programming, through abstraction to larger scale programming, students are lead step by step through the basics, before being introduced to more advanced topics.
This edition includes new material on testing and domain-specific languages and a variety of new examples and case studies, including simple games. Existing material has been expanded and re-ordered, so that some concepts – such as simple data types and input/output – are presented at an earlier stage.

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3 Basic types and definitions
4 Designing and writing programs
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6 Programming with lists
7 Defining functions over lists
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14 Algebraic types
15 Case study: Huffman codes
16 Abstract data types
17 Lazy programming
18 Programming with monads
19 Domain-Specific Languages
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21 Conclusion

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Data Structures and Algorithm Analysis in C++, 4/e

Mark A. Weiss

ISBN-10: 0273769383
ISBN-13: 9780273769385
608pp ©2013 Paper

Basic Approach

Data Structures and Algorithm Analysis in C++ is an advanced algorithms book that bridges the gap between traditional CS2 and Algorithms Analysis courses.

As the speed and power of computers increases, so does the need for effective programming and algorithm analysis. By approaching these skills in tandem, Mark Allen Weiss teaches readers to develop well-constructed, maximally efficient programs using the C++ programming language.

This book explains topics from binary heaps to sorting to NP-completeness, and dedicates a full chapter to amortized analysis and advanced data structures and their implementation. Figures and examples illustrating successive stages of algorithms contribute to Weiss' careful, rigorous and in-depth analysis of each type of algorithm.

Data Structures and Algorithm Analysis in Java, 3/e
Mark A. Weiss

ISBN-10: 0273752111
ISBN-13: 9780273752110
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Basic Approach
Data Structures and Algorithm Analysis in Java is an advanced algorithms book that fits between traditional CS2 and Algorithms Analysis courses. In the old ACM Curriculum Guidelines, this course was known as CS7. It is also suitable for a first-year graduate course in algorithm analysis

As the speed and power of computers increases, so does the need for effective programming and algorithm analysis. By approaching these skills in tandem, Mark Allen Weiss teaches readers to develop well-constructed, maximally efficient programs in Java.

Weiss clearly explains topics from binary heaps to sorting to *NP*-completeness, and dedicates a full chapter to amortized analysis and advanced data structures and their implementation. Figures and examples illustrating successive stages of algorithms contribute to Weiss' careful, rigorous and in-depth analysis of each type of algorithm. A logical organization of topics and full access to source code complement the text's coverage.

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1 Introduction
2 Algorithm Analysis
3 Lists, Stacks, and Queues
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6 Priority Queues (Heaps)
7 Sorting
8 The Disjoint Set Class
9 Graph Algorithms
10 Algorithm Design Techniques
11 Amortized Analysis
12 Advanced Data Structures and Implementation

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Data Structures and Problem Solving Using Java, 5/e
Mark A. Weiss

ISBN-10: 0273769367
ISBN-13: 9780273769361
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Basic Approach
For the second or third programming course.

A practical and unique approach to data structures that separates interface from implementation.

This book provides a practical introduction to data structures with an emphasis on abstract thinking and problem solving, as well as the use of Java. It does this through what remains a unique approach that clearly separates each data structure's interface (how to use a data structure) from its implementation (how to actually program that structure). Parts I (Tour of Java), II (Algorithms and Building Blocks), and III (Applications) lay the groundwork by discussing basic concepts and tools and providing some practical examples, while Part IV (Implementations) focuses on implementation of data structures. This forces the reader to think about the functionality of the data structures before the hash table is implemented.

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Digital Media Primer, 2/e
Yue-Ling Wong

ISBN-10: 0132893509
ISBN-13: 9780273774341
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Basic Approach
Digital Media encompasses a wide variety of topics including: the study of image, sound, and video processing,

compression, interactive multimedia development, and advanced web programming. ***Digital Media Primer*** is designed for students from all disciplines interested in learning the foundational concepts and basic techniques in digital media production. This edition has been expanded so that while students learn the concepts and techniques of digital media production, they will also learn basic computer programming skills.
The Primer is not tied to a specific application program like Flash or Photoshop; instead, the author introduces tools and techniques using a task-based approach and provides the rationale for the techniques. This way, the skills students learn are transferable to whatever tool they end up using or have access to. For students that do not know how to navigate certain tools, Wong provides brief Application tutorials as supplemental material.
Instructor/Student resources include: web-based interactive material, worksheets, programming assignments, demos, solutions to exercises, lecture notes and exam questions.

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11 Interactive Multimedia Authoring with Flash: ActionScript–Part 3
12 OOP Basics with Flash ActionScript 3.0 (NEW)
13 OOP Inheritance and Polymorphism (NEW)
14 Introduction to HTML (NEW)
15 HTML5 Video and Audio (NEW)

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Computer Networks 1/e
Chwan-Hwa Wu
J. David Irwin

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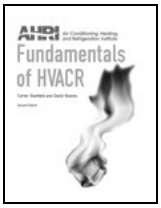

Fundamentals of HVACR, 2/e

Carter AHRI
Carter Stanfield, Athens Technical College
David Skaves

ISBN-10: 0132859610
ISBN-13: 9780132859615
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ISBN: 9780132859615

Basic Approach

Created with a clear-cut vision of what students need, this groundbreaking text provides comprehensive coverage of heating, ventilating, air conditioning, and refrigeration. Lauded as a reader-friendly text that delivers fundamental concepts, the most current trends, and practical applications with simple language and skillfully presented concepts, Fundamentals of HVACR, 2nd edition boasts carefully selected artwork and the right amount of detail for today's student.

It is supported by a complete suite of student and instructor supplements including the latest in interactive online learning technology, MyHVACLab!

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90 Planned Maintenance
91 System Cleanup **(NEW!)**
92 Troubleshooting

Green Engineering: Environmentally Conscious Design of Chemical Processes, 2/e

David T. Allen
David R. Shonnard, Michigan Technological University

ISBN-10: 0132657074
ISBN-13: 9780132657075
704pp ©2013 Paper

Basic Approach

For upper level undergraduate and graduate level Chemical Engineering courses in Pollution Prevention and Chemical Process Design that are offered to Chemical Engineering or Environmental Engineering students, as well as Practicing Chemical or Civil Engineers interested in finding ways to prevent pollution.

This book is the result of the USEPA (Environmental Protection Agency) green engineering curriculum development effort for chemical engineering departments. The book was developed to fulfill ABET/AICHE requirements on environment, health and safety.

The book provides a comprehensive overview and introduction to environmentally preferable, or “green” approaches in the design and development of chemical processes and products for both engineering students and practitioners. It covers basic pollution prevention and waste minimization techniques, while emphasizing the environmental risks that must be considered in the design of chemical process and products. *Green Engineering: Environmentally Conscious Design of Chemical Processes* is also the complete professional's guide to cost-effective design, commercialization, and use of chemical processes that minimize pollution at the source, thus reducing the impact on health and the environment.

Sustainable Engineering: Concepts, Design and Case Studies, 1/e

David T. Allen
David R. Shonnard, Michigan Technological University

ISBN-10: 0132756544
ISBN-13: 9780132756549
240pp ©2012 Paper

Basic Approach

Sustainable Engineering: Design and Analysis is the first textbook to offer a unified approach and comprehensive tools for evaluating the environmental, economic, and societal impacts of engineering designs. It builds on the authors' comprehensive benchmarking study of the incorporation of sustainability concepts in engineering curricula, and integrates well-accepted principles and methods from their highly successful textbook, **Green Engineering**. David Allen and David Shonnard cover everything students and professionals need to improve sustainability in any engineering discipline. They integrate coverage of sustainability concepts and lifecycle principles, quantitative engineering design principles and methods, evaluation tools, case studies, industry perspectives, and more. Readers will learn how to utilize green materials, design green processes and products, and assess the economic value and societal impacts of green designs. Using this book, engineering faculty can bring greater coherence to their instruction on sustainability issues, easily integrating sustainability topics into existing courses. Note: This text condenses the new Second Edition of **Green Engineering: Environmentally Conscious Design of Chemical Processes**, also scheduled for publication in 2011.

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1 An Introduction to Sustainability
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Electronic Devices and Circuit Theory, 11/e

Robert L. Boylestad
Louis Nashelsky, Queensborough Community College

ISBN-10: 0132622262
ISBN-13: 9780132622264
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Basic Approach

For upper-level courses in Devices and Circuits at 2-year or 4-year Engineering and Technology institutes. Electronic Devices and Circuit Theory, Eleventh Edition, offers students a complete, comprehensive survey, focusing on all the essentials they will need to succeed on the job. Setting the standard for nearly 30 years, this highly accurate text is supported by strong pedagogy and content that is ideal for new students of this rapidly changing field. The colorful layout with ample photographs and examples enhances students' understanding of important topics. This text is an excellent reference work for anyone involved with electronic devices and other circuitry applications, such as electrical and technical engineers.

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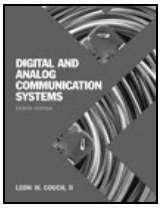
9. BJT and JFET Frequency Response.
10. Operational Amplifiers.
11. Op-Amp Applications.
12. Power Amplifiers.
13. Linear-Digital ICs.
14. Feedback and Oscillator Circuits.
15. Power Supplies (Voltage Regulators).
16. Other Two-Terminal Devices.
17. pnpn and Other Devices.



Digital & Analog Communication Systems, 8/e

Leon W. Couch, University of Florida-Gainesville

ISBN-10: 0132915383
ISBN-13: 9780132915380
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Basic Approach

For junior- to senior-level introductory communication systems courses for undergraduates, or an introductory graduate course.
This revision of Couch's authoritative text provides the latest treatment of digital communication systems. The author balances coverage of both digital and analog communication systems, with an emphasis on design. Students will gain a working knowledge of both classical mathematical and personal computer methods to analyze, design, and simulate modern communication systems. MATLAB is integrated throughout.

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60 GHz Wireless Communication Systems, 1/e

Robert C. Daniels
Robert W. Heath
James N. Murdock
Theodore S. Rappaport, University of Texas, Austin

ISBN-10: 0132172283
ISBN-13: 9780132172288
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Basic Approach

The first fully comprehensive guide to cutting-edge 60 GHz wireless design: will be the definitive reference for years to come

- Prepares engineers to work with tomorrow's most important emerging wireless standards, including IEEE 802.15.3c, Wireless HD, and ECMA/WiMedia
- Covers all facets of 60 GHz wireless design, from channel to antenna to receiver
- By four pioneers in 60 GHz research and implementation, including Ted Rappaport, leader of UT Austin's renowned Wireless Networking and Communications Group

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Integrated Microelectronic Devices: Physics and Modeling, 1/e

Jesus A. del Alamo

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Digital Fundamentals: A Systems Approach, 1/e
Thomas L. Floyd

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Electronic Devices (Conventional Current Version), 9/e
Thomas L. Floyd

ISBN-10: 0132668882
ISBN-13: 9780132668880
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Basic Approach
For courses in Basic Electronics and Electronic Devices and Circuits.

Electronic Devices (CONVENTIONAL CURRENT VERSION), Ninth Edition, provides a solid foundation in basic analog electronics and a thorough introduction to analog integrated circuits and programmable devices. The text identifies the circuits and components within a system, helping students see how the circuit relates to the overall system function. Full-color photos and illustrations and easy-to-follow worked examples support the text's strong emphasis on real-world application and troubleshooting. Updated throughout, the ninth edition features new *GreenTech Applications* and a new chapter, "Basic Programming Concepts for Automated Testing."

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10 AMPLIFIER FREQUENCY RESPONSE
11 THYRISTORS
12 THE OPERATIONAL AMPLIFIER
13 BASIC OP-AMP CIRCUITS
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15 ACTIVE FILTERS
16 OSCILLATORS
17 VOLTAGE REGULATORS
18 BASIC PROGRAMMING CONCEPTS FOR AUTOMATED TESTING
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Electronic Devices (Electron Flow Version), 9/e
Thomas L. Floyd

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Basic Approach
For courses in Basic Electronics and Electronic Devices and Circuits.

Electronic Devices (ELECTRON FLOW VERSION), Ninth Edition, provides a solid foundation in basic analog electronics and a thorough introduction to analog integrated circuits and programmable devices. The text identifies the circuits and components within a system, helping students see how the circuit relates to the overall system function. Full-color photos and illustrations and easy-to-follow worked examples support the text's strong emphasis on real-world application and troubleshooting. Updated throughout, the ninth edition features new *GreenTech Applications* and a new chapter, "Basic Programming Concepts for Automated Testing."

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Analog Fundamentals: A Systems Approach, 1/e
Thomas L. Floyd
Toby Boydell

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DC/AC Fundamentals: A Systems Approach, 1/e
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Engineering Methods for Robust Product Design: Using Taguchi Methods in Technology and Product Development (paperback), 1/e
William Y. Fowlkes
Clyde M. Creveling, *Rochester Institute of Technology*

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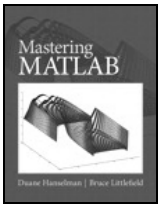

Mastering MATLAB, 1/e
Duane C. Hanselman
Bruce L. Littlefield

ISBN-10: 0136013309
ISBN-13: 9780136013303
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Basic Approach
For undergraduate and graduate courses in MATLAB or as a reference in courses where MATLAB is used.
This text covers all essential aspects of MATLAB presented within an easy- to-follow "learn while doing" tutorial format.

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1 Getting Started
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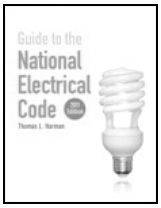

Guide to the National Electrical Code 2011 Edition, 1/e

Thomas L. Harman, *University of Houston*

ISBN-10: 013212162X
ISBN-13: 9780132121620
432pp ©2012 Paper

Basic Approach

For all electrical code courses taught by junior colleges, trade associations, or electrical union schools to students who are preparing for journeyman or master electrician licensing examinations.

This is the ideal comprehensive self-study or course guide for the entire 2011 NEC (National Electrical Code). Dr. Thomas Harman explains the code in detail, with references to the specific NEC articles that apply to each discussion, example, or problem. All NEC rules are summarized in tables for easy reference, and Harman provides dozens of worked example calculations. For ease of use, the Guide divides the NEC rules into those for wiring design and for practical installations; the book also reviews general electrical theory. Each chapter contains quizzes and an examination with answers. Three realistic sample final examinations are also provided.

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5. Electrical Circuit Design for Commercial and Industrial Occupancies

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PART IV. FINAL EXAMINATIONS
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15. Final Examination No. 2
16. Final Examination No. 3

Adaptive Filter Theory, 5/e

Simon Haykin, *McMaster University, Ontario Canada*

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ISBN-13: 9780273764083
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Basic Approach
For courses in Adaptive Filters.
Haykin examines both the mathematical theory behind various linear adaptive filters and the elements of supervised multilayer perceptrons. In its fifth edition, this highly successful book has been updated and refined to stay current with the field and develop concepts in as unified and accessible a manner as possible.

Bluetooth Low Energy: The Developer's Handbook, 1/e

Robin Heydon

ISBN-10: 013288836X
ISBN-13: 9780132888363
300pp ©2012 Paper

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2. Basic Concepts
3. Architecture
4. New Usage Models
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7. Link Layer
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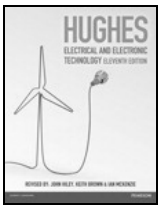

Electrical And Electronic Technology, 11/e

Edward Hughes

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ISBN-13: 9780273755104
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Basic Approach
This best-selling textbook, now in its eleventh edition, provides the clear and accessible introduction to electrical and electronic technology that all engineering students need. With a balanced coverage of electrical, electronic, and power engineering,Hughes Electrical and Electronic Technology is a must-have text for all university and college engineering students, including those not studying for an electrical or electronic degree. It is also appropriate as a reference for practitioners and technicians working in this, or any other engineering discipline.

This edition has been significantly updated to include more on green topics like renewable energy and smart grid systems, and on technological advances such as particle accelerators.

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43. Power Electronics
Section 4 – Measurements, Sensing and Actuation
44. Control Systems, Sensors and Actuators
45. Electronic Measuring Instruments and Devices
46. Analogue Measuring Instruments

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Introduction to Electrical and Computer Engineering, 2/e
J. David Irwin, Auburn University
David V. Kerns, Franklin W. Olin College of Engineering (Olin College)

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Basic Approach
For an introductory course or course sequence in electrical engineering or electrical and computer engineering. May also be useful for the reader who wishes to use a self-study approach to learn the fundamentals of electrical and computer engineering.
With its clear presentation of fundamentals in the context of various applications from all engineering fields, this text by proven authors represents the best balanced general introduction to the field available. It introduces the latest technologies such as MEMS (Microelectromechanical Systems) to illustrate how modern technologies are interdisciplinary. Presenting modularized coverage of a wide range of topics to afford instructors great flexibility, Essentials of Electrical and Computer Engineering, is an exceptionally strong teaching tool—gently yet thoroughly introducing students to the full spectrum of fundamental topics; offering strong pedagogical support and clear explanations, and never relying on superficial, cursory explanations.

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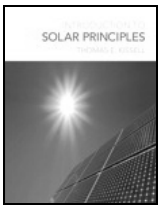
Optoelectronics & Photonics: Principles & Practices, 2/e
Safa O. Kasap, University of Saskatchewan

ISBN-10: 0132151499
ISBN-13: 9780132151498
450pp ©2013 Cloth

ISBN: 9780132151498

Basic Approach
For one-semester, undergraduate-level courses in Optoelectronics and Photonics, in the departments of electrical engineering, engineering physics, and materials science and engineering.
This text takes a fresh look at the enormous developments in electo-optic devices and associated materials—such as Pockels (Lithium Niobate) modulators.



Introduction to Solar Principles, 1/e
Thomas E. Kissell

ISBN-10: 0135103851
ISBN-13: 9780135103852
312pp ©2012 Paper

Basic Approach
This book explains the basic principles of solar energy used to create electricity through photovoltaic (PV) cells or solar heating for hot water and residential and commercial heating systems. The book will help prepare students for green energy jobs such as selling, installing, troubleshooting and repair of solar energy systems.

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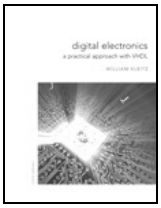
9 Storing Electrical Energy and Batteries
10 The Grid and Integration of Solar Generated Electricity Into the Grid
11 Installing, Troubleshooting, and Maintaining Solar Energy Systems
12 Electricity and Electronics for Solar Energy Systems



Digital Electronics: A Practical Approach with VHDL, 9/e
William Kleitz, *State University of New York, Tompkins Cortland*

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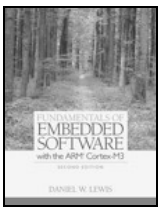
Basic Approach
For courses in Digital Electronics, Digital Systems, and Digital Design.

Digital Electronics: A Practical Approach with VHDL, Ninth Edition, offers students an easy-to-learn-from resource that emphasizes practical application of circuit design, operation, and troubleshooting. Over 1,000 annotated color figures help explain circuit operation or emphasize critical components and input/output criteria. Throughout the text, the author employs a step-by-step approach that takes students from theory to example to application of the concepts. Over all nine editions, Kleitz has consistently sought out student feedback, along with his own experience of teaching the course in-class and on-line, to improve each new edition.

Table of Contents

1. NUMBER SYSTEMS AND CODES
2. DIGITAL ELECTRONIC SIGNALS AND SWITCHES
3. BASIC LOGIC GATES
4. PROGRAMMABLE LOGIC DEVICES: CPLDS AND FPGAS WITH VHDL DESIGN
5. BOOLEAN ALGEBRA AND REDUCTION TECHNIQUES
6. EXCLUSIVE-OR AND EXCLUSIVE-NOR GATES
7. ARITHMETIC OPERATIONS AND CIRCUITS
8. CODE CONVERTERS, MULTIPLEXERS, AND DEMULTIPLEXERS
9. LOGIC FAMILIES AND THEIR CHARACTERISTICS
10. FLIP-FLOPS AND REGISTERS
11. PRACTICAL CONSIDERATIONS FOR DIGITAL DESIGN
12. COUNTER CIRCUITS AND VHDL STATE MACHINES
13. SHIFT REGISTERS
14. MULTIVIBRATORS AND THE 555 TIMER
15. INTERFACING TO THE ANALOG WORLD
16. SEMICONDUCTOR, MAGNETIC AND OPTICAL MEMORY
17. MICROPROCESSOR FUNDAMENTALS
18. THE 8051 MICROCONTROLLER

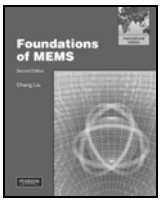


Fundamentals of Embedded Software: Where C & Assembly Meet, 2/e

Daniel W. Lewis, Santa Clara University

ISBN-10: 0132916541
ISBN-13: 9780132916547
272pp ©2013 Cloth

Basic Approach
For sophomore-level courses in Assembly Language Programming in Computer Science, Embedded Systems Design, Real-Time Analysis, Computer Engineering, or Electrical Engineering curricula. Requires prior knowledge of C, C++, or Java.
This book is intended to provide a highly motivating context in which to learn procedural programming language. Using a non-product specific approach and a programming (versus hardware) perspective, this text lays a foundation that supports the multi-threaded style of programming and high-reliability requirements of embedded software. Reflecting *current* industrial applications and programming practice, it focuses on the more modern 32-bit protected mode processors and on C as the dominant programming language—with coverage of assembly and how it can be used in conjunction with, and support of, C.



Foundations of MEMS, 2/e

Chang Liu, University of Illinois at Urbana-Champaign

ISBN-10: 0273752243
ISBN-13: 9780273752240
560pp ©2012 Cloth

Basic Approach
For courses in Micro-Electro-Mechanical Systems (MEMS) taken by advanced undergraduate students, beginning graduate students, and professionals.
Foundations of MEMS is an entry-level text designed to systematically teach the specifics of MEMS to an interdisciplinary audience. Liu discusses designs, materials, and fabrication issues related to the MEMS field by employing concepts from both the electrical and mechanical engineering domains and by incorporating evolving microfabrication technology — all in a time-efficient and methodical manner. A wealth of examples and problems solidify students' understanding of abstract concepts and provide ample opportunities for practicing critical thinking.

Table of Contents

1 Introduction
2 First-Pass Introduction to Microfabrication
3 Review of Essential Electrical and Mechanical Concepts
4 Electrostatic Sensing and Actuation
5 Thermal Sensing and Actuation
6 Piezoresistive Sensors
7 Piezoelectric Sensing and Actuation
8 Magnetic Actuation
9 Summary of Sensing and Actuation Methods
10 Bulk Micromachining and Silicon Anisotropic Etching
11 Surface Micromachining
12 Process Synthesis Putting It all Together
13 Polymer MEMS
14 Micro Fluidics Applications
15 Case Studies of Selected MEMS Products

DIGITAL DESIGN, 5/e

M. Morris Mano
Michael D. Cilett

ISBN-10: 0273764527
ISBN-13: 9780273764526
576pp ©2013

Basic Approach
For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department.
Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for

the design of digital circuits and provides procedures suitable for a variety of digital applications.

No image available

Microprocessors: A Systems Approach, 1/e

Muhammad Ali Mazidi, *DeVry University*
Rolin McKinlay
Janice Mazidi

ISBN-10: 0135080444
ISBN-13: 9780135080443
704pp ©2013 Cloth

Basic Approach

For courses in Embedded System Design, Microcontroller's Software & Hardware, Microprocessor Interfacing, Microprocessor Assembly Language Programming, Peripheral Interfacing, Senior Project Design, Embedded System Programming with C.

PIC Microcontrollers and Embedded Systems: Using Assembly and C for PIC18, Second Edition, offers a systematic approach to PIC programming and interfacing using Assembly and C languages. Offering numerous examples and a step-by-step approach, it covers both the Assembly and C programming languages and devotes separate s to interfacing with peripherals such as Timers, LCD, Serial Ports, Interrupts, Motors, and more. A unique on hardware design of the PIC system and the PIC trainer round out coverage, while text appendices and online support make it easy to use in the lab and classroom.

Table of Contents

0 Introduction to Computing
1 The PIC Microcontrollers History and Features
2 The PIC Architecture and Assembly Language Programming
3 Branch, Call, and Time Delay Loop
4 The PIC I/O Port Programming
5 Arithmetic, Logic Instructions and Programs
6 Bank Switching, Table Processing, Macro and Modules
7 The PIC18 programming in C Language
8 The PIC18 Hardware Connection
9 The PIC18 Timer Programming in Assembly and C
10 The PIC18 Serial Port programming in Assembly and C
11 The PIC18 Interrupts Programming in Assembly and C
12 LCD and Keypad Interfacing
13 ADC and Sensors Interfacing
14 Programming EEPROM and Flash Memory in PIC18
15 Relay, Optoisolator, and Stepper Motor Interfacing with PIC18
16 SPI Protocol and DS1306 RTC Interfacing with PIC18
17 PWM and DC Motor Control with PIC18
18 I2C and DAC Interfacing with PIC18

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Signal Processing First, 2/e

James H. McClellan
Ronald Schafer
Mark Yoder

ISBN-10: 0273768999
ISBN-13: 9780273768999
552pp ©2012 Paper

Basic Approach

For introductory courses in Digital Signal Processing and Signals and Systems. Text may be used before the student has taken a course in circuits.

This text is derived from *DSP First: A Multimedia Approach*, published in 1997, which filled an emerging need for a new entry-level course not centered on analog circuits in the ECE curriculum. It was also successfully used in 80 universities as a core text for linear systems and beginning signal processing courses. **This derivative product,** *Signal Processing First* [SPF] contains similar content and presentation style, but focuses on analog signal processing. **Note**: *DSP First: A Multimedia Approach* remains in print for those who choose a digital emphasis for their introductory course.

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Electromagnetics Using MATLAB, 1/e

Branislav M. Notaros

ISBN-10: 0132857944
ISBN-13: 9780132857949
450pp ©2013 Cloth

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Discrete-Time Signal Processing, 1/e

John Parr
Dick Blandford

ISBN-10: 0131394061
ISBN-13: 9780131394063
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Basic Approach
Designed for the undergraduate discrete-time signal processing course

Discrete-Time Signal Processing covers the information that the undergraduate electrical computing and engineering student needs to know about DSP. Core material, with necessary theory and applications, is presented in Chapters 1-7. Four unique chapters that focus on advanced applications follow the core material. MATLAB® is heavily emphasized throughout the book. Most applications have an accompanying lab or sequence of homework problems that have a lab component.

Table of Contents
1 Introduction and Overview
2 Discrete-Time Signals
3 Frequency Domain Concepts
4 Sampling and Reconstruction
5 FIR Filter Design and Analysis
6 Analysis and Design of IIR Filters
7 Sample Rate Conversion
8 Realization and Implementation of Digital Filters
9 Digital Audio Signals
10 Introduction to Two-Dimensional Digital Signal Processing
11 Introduction to Wavelets

RF Microelectronics, 2/e

Behzad Razavi, *UCLA, Los Angeles, California*

ISBN-10: 0132839415
ISBN-13: 9780132839419
960pp ©2012 Paper

Basic Approach
RF Microelectronics, Second Edition teaches RF analysis and design systematically, one step at a time, taking readers all the way from specification through practical solution. Behzad Razavi has thoroughly revised his classic text to incorporate the latest developments in RF architecture, circuits, and devices, and to cover all key topics in greater detail. This edition's stronger tutorial focus will make it even more valuable to students, and its more systematic coverage of the latest technologies will make it indispensable to practicing engineers.

Table of Contents

1 Introduction to RF and Wireless Technology
2 Basic Concepts in RF Design
3 Communication Concepts
4 Transceiver Architectures
5 Low-Noise Amplifiers
6 Mixers
7 Passive Devices
8 Oscillators
9 Phase-Locked Loops
10 Integer-N Frequency Synthesizers
11 Fractional-N Synthesizers
12 Power Amplifiers
13 Transceiver Design Example

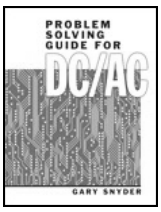
No image available

Introduction to Wireless Technology, 2/e

Gary S. Rogers, *Macon State College*
John S. Edwards, *Macon State College*

ISBN-10: 0132839660
ISBN-13: 9780132839662
608pp ©2013 Paper

Basic Approach
For introductory courses in wireless communications found in Information Technology/Computer Information Systems programs.
This text provides a comprehensive introduction to all aspects of wireless technology and networking. Written in a clear, easy to understand manner, it presents all the major wireless communications technologies in a thorough and non-mathematical manner, providing the student with the knowledge to understand and apply these technologies to organizations of all types. The text emphasizes a practical application of technology as well as a comprehensive understanding of theory. It covers the history of wireless communications, Wireless Application Protocol, Bluetooth, cellular telephony, public services, wireless LANS, satellite communications, and the Global Positioning System, and also covers recent advances in technology.



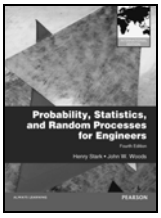
Problem Solving Guide for DC/AC, 1/e
Gary Snyder

ISBN-10: 013510386X
ISBN-13: 9780135103869
696pp ©2012 Paper

Basic Approach
For courses in Introductory DC and AC electronics.

The *Problem Solving Guide for Basic DC and AC Electronics, 1e* is designed to supplement established electronic textbooks, such as Floyd's *Principles of Electronic Circuits*. It helps students better develop the conceptual understanding and mathematical problem solving techniques required for dc and ac circuit analysis. This guide provides consistent, step-by-step calculations for all problems so that students can readily understand the procedure for analyzing circuits and develop good problem-solving habits for working through lengthy or complex calculations. By including problems that cover a wide range of generally applicable circuit examples, it serves both as an instructional aid in the basic dc/ac electronic course and as a reference for future courses.

Table of Contents
Preface
1. Quanities and Units
2. Voltage, Current and Resistance
3. Ohm's Law



Probability, Statistics, and Random Processes for Engineers, 4/e
Henry Stark
John Woods

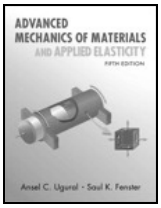
ISBN-10: 0273752286
ISBN-13: 9780273752288
704pp ©2012 Cloth

Basic Approach
For courses in Probability and Random Processes.

Probability, Statistics, and Random Processes for Engineers, 4e is a comprehensive treatment of probability and random processes that, more than any other available source, combines *rigor* with *accessibility*. Beginning with the fundamentals of probability theory and requiring only college-level calculus, the book develops all the tools needed to understand more advanced topics such as random sequences, continuous-time random processes, and statistical signal processing. The book progresses at a leisurely pace, never assuming more knowledge than contained in the material already covered. Rigor is established by developing all results from the basic axioms and carefully defining and discussing such advanced notions as stochastic convergence, stochastic integrals and resolution of stochastic processes.

Table of Contents

1 Introduction to Probability
2 Random Variables
3 Functions of Random Variables
4 Expectation and Moments
5 Random Vectors
6 Statistics: Part 1 Parameter Estimation
7 Statistics: Part 2 Hypothesis Testing
8 Random Sequences
9 Random Processes
s 10 and 11 are available as Web s on the companion Web site at http://www.pearsonhighered.com/stark.
10 Advanced Topics in Random Processes
11 Applications to Statistical Signal Processing



Advanced Mechanics of Materials and Applied Elasticity, 5/e

Ansel C. Ugural
Saul K. Fenster

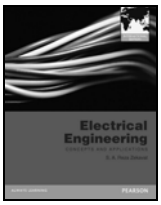
ISBN-10: 0137079206
ISBN-13: 9780137079209
704pp ©2012 Cloth

Basic Approach

Long the leading text for students and practitioners in advanced materials mechanics, this new edition has been thoroughly revised to reflect the newest techniques, supporting more advanced study and professional design and analysis for the coming decade. More complete and current than ever, this edition systematically explores real-world stress analysis, and introduces state-of-the-art methods and applications used throughout aeronautical, civil, and mechanical engineering and engineering mechanics. Distinguished by exceptional visual interpretations of the solutions, it carefully balances thorough treatments of solid mechanics, elasticity, and computer-oriented numerical methods.

Table of Contents

1 Analysis of Stress
2 Strain and Material Properties
3 Problems in Elasticity
4 Failure Criteria
5 Bending of Beams
6 Torsion of Prismatic Bars
7 Numerical Methods
8 Axisymmetrically Loaded Members
9 Beams on Elastic Foundations
10 Applications of Energy Methods
11 Stability of Columns
12 Plastic Behavior of Materials
13 Plates and Shells



Introduction to Electrical Engineering, 1/e

S.A. Reza Zekavat

ISBN-10: 0273752073
ISBN-13: 9780273752073
896pp ©2013 Paper

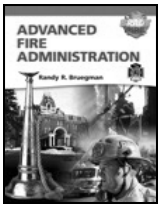
Basic Approach

For non-electrical engineering majors taking the introduction to electrical engineering course.

Electrical Engineering: Concepts and Applications is the result of a multi-disciplinary effort at Michigan Technological University to create a new curriculum that is attractive, motivational, and relevant to students by creating many application-based problems; and provide the optimal level of both range and depth of coverage of EE topics in a curriculum package.

Table of Contents

1 Why Electrical Engineering?
2 Fundamentals of Electric Circuits
3 Resistive Circuits
4 Capacitance and Inductance
5 Transient Analysis
6 Steady-State AC Analysis
7 Frequency Analysis
8 Electronic Circuits
9 Power Systems and Transmission Lines
10 Fundamentals of Logic Circuits
11 Computer-Based Instrumentation Systems
12 Principles of Electromechanics
13 Electric Machines
14 Electrical Measurement Instruments
15 Electrical Safety



Advanced Fire Administration, 1 / e

Randy R. Bruegman, *Fresno Fire Department*

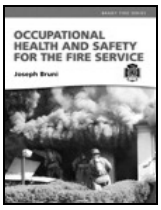
ISBN-10: 0132824396
ISBN-13: 9780135028308
432pp ©2012 Paper

Basic Approach

This text is written to the FESHE baccalaureate curriculum for the Advanced Fire Administration course and is a first edition for advanced level fire courses and current administrators in the field wanting further training. With twelve s and FESHE and NFPA references and guidelines throughout, the text focuses on chief officer and upper management positions and responsibilities in leading the fire service of today and preparing for the future.

Table of Contents

1 Our Past is a Window to Our Future
2 A Community Approach to Fire Protection and Emergency Services
3 The Leadership of Change
4 Planning for Organizational Achievement
5 An Integrated Approach to Community Risk Management
6 Managing in a Changing Environment Measuring System Performance
7 Fiscal Management in Difficult Times
8 Effective Personnel Management
9 Firefighter Health and Safety Making a Difference
10 National and International Trends in the Fire Service
11 The Future The Legacy of Leadership



Occupational Health and Safety for the Fire Service, 1 / e

Joseph Bruni

ISBN-10: 0135138086
ISBN-13: 9780135138083
320pp ©2012 Paper

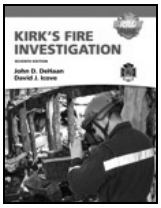
Basic Approach

For courses in Occupational Health and Safety for Fire Service.

Occupational Health and Safety for the Fire Service with MyFireKit is intended to aid emergency service managers and leaders with the reducing the injury and death of emergency workers by implementing the latest occupational health and safety standards and regulations. In the continually changing world of emergency services, this text's up-to-date coverage of standards and regulations helps managers and leaders stay focused on current trends such as terrorism, technology, and of course, health and safety. The text also covers technology as a tool to enhance and support the health and safety of emergency responders.

Table of Contents

1. History of Occupational Safety and Health in Emergency Service Organizations
2. Safety-Related Regulations and Standards Applied to Emergency Services
3. Risk Management and Administration
4. The Development and Managemetn of the Safety Program
5. Risk Assessment and Safety Planning
6. Fire Emergency Safety
7. Safety at EMS Emergencies
8. Safety at Specific Types of Incidents
9. Safety After the Incident
10. Individual Responsibility with Safety - If Not You, Then Who?
11. Safety Program Appraisal—Making It Happen—If Not Now, Then When?
12. Data Collection and Information Management
13. Specific Issues Concerning Occupational Safety Services
14. Lessons Learned from Incidents



Kirk's Fire Investigation, 7/e

John D. De Haan
David J. Icove, *University of Tennessee*

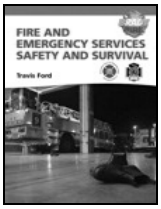
ISBN-10: 0135082633
ISBN-13: 9780135082638
800pp ©2012 Paper

Basic Approach

Organized into 17 s with completely updated color photographs and accompanied by supporting appendices, this seventh edition, written to the FESHE curriculum, instructs the reader on the skills needed in fire investigation, delving into topics such as fire-related deaths and injuries, fire behavior and sources of ignition. Remaining true to Professor Paul L. Kirk's intent, this best-selling text presents a broad-based look at the entire fire investigation process, from evaluating a fire scene to writing reports and providing testimony. An international database as offered by fire and explosion investigators, scientists, and engineers from all over the world is also reflected in the seventh edition, including revised material on ignition, fire dynamics, and case examples while showcasing a multitude of latest research, color photographs and artwork.

Table of Contents

1. Introduction
2. The Elementary Chemistry of Combustion
3. Fundamentals of Fire Behavior and Building Construction
4. Combustion Properties of Liquid and Gaseous Fuels
5. Combustion Properties of Solid Fuels
6. Sources of Ignition
7. Structure Fires and their Investigation
8. Grass and Wildland Fires and their Investigation
9. Automobile, Other Motor Vehicle, and Ship Fires
10. Electrical Causes of Fires
11. Clothing and Fabric Fires
12. Explosions and Explosive Combustion
13. Chemical Fires and and Hazardous Materials
14. Laboratory Services
15. Fire-Related Deaths and Injuries
16. Arson as a Crime
17. Other Investigative Topics



Fire and Emergency Services Safety & Survival, 1/e

Travis M. Ford, *Northwestern University Medical School*
Natl Fallen Firefighters, *Kansas State University*

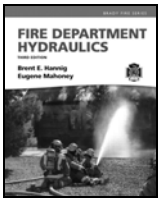
ISBN-10: 0137015488
ISBN-13: 9780137015481
800pp ©2012 Paper

Basic Approach

Written to the FESHE guidelines and outcomes for the Principles of Fire and Emergency Services Safety and Survival course, this first edition text offers safety solutions, attainable goals and real-life examples to develop and initiate a collective plan of action and commitment to reducing the amount of line of duty injuries, fatalities, and near- misses. Incorporating the 16 Life Safety Initiatives developed by the National Fallen Firefighters Foundation, this material offers fourteen s with related FESHE and NFPA references and guidelines throughout and offers foundational knowledge on understanding how to execute safety procedures and recommendations for putting safety first. A team of experienced fire service professionals developed material that engages both students and career fire service professionals and offers modern-day solutions that challenge the reader to pledge to make a change.

Table of Contents

1. Fire and Emergency Services Culture
2. Personal and Organizational Accountability
3. Risk Management
4. Unsafe Practices
5. Professional Development
6. Medical, Fitness, Rehab and Performance Standards
7. Data Collection and Research
8. Emerging Technologies
9. Fatality and Injury Investigations
10. Grant Programs
11. Emergency Response
12. Occupational and Behavioral Health in the Emergency Services
13. Public Education, Code Enforcement, and Residential Sprinklers
14. Emergency Response Vehicles and Equipment



Fire Department Hydraulics, 3/e

Brent E. Hannig
Eugene Mahoney

ISBN-10: 0132577151
ISBN-13: 9780132577151
416pp ©2013 Paper

Basic Approach

For courses in fire protection hydraulics, water supply, and fire technology; and for working fire department professionals studying to become drivers, operators, or engineers.
Now in full color throughout, this extensively updated text provides a complete foundation in fire department hydraulics, explaining how and why water is discharged from nozzles at the correct pressures to effectively fight fires. One step at a time, it clearly explains key concepts including the weight of water, friction loss within hoselines, characteristics of municipal water supplies, delivery of water to handlines and master streams, and much more. This edition's many improvements include: new full color diagrams, tables and photos; new safety alerts based on NFFF's life-safety initiatives; coverage of new tank shapes, containers, hoses, testing, and deck gun calculations; more effective organization; and extensive new web-based study resources.

Table of Contents

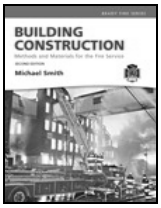
1. Principles of Fire Department Hydraulics
2. Water Tanks and Hose Capacity
3. Water Supply and Testing Procedures
4. Fire Streams
5. Discharge
6. Friction Loss Principles and Application
7. Required Pump Discharge Pressure
8. Unusual and Complex Problems
9. Pumps, Pump Accessories, and Drafting Operations
10. Relay Operations
11. Fire Ground Hydraulics

No image available

Forensic Fire Scene Reconstruction, 3/e

David J. Icove, University of Tennessee
John D. De Haan
Gerald A Haynes

ISBN-10: 0132605775
ISBN-13: 9780132605779
448pp ©2013 Paper



Building Construction: Methods and Materials for the Fire Science, 2/e

Michael Smith

ISBN-10: 0137083785
ISBN-13: 9780137083787
256pp ©2012 Paper

Basic Approach

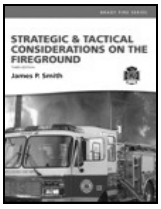
For courses in Building Construction.

Building Construction: Methods and Materials for the Fire Service, Second Edition, emphasizes the impact that an understanding of the principles of building construction has on firefighting strategy. Written by an author with extensive knowledge and experience in both the fire service and construction industries, it explains building materials and processes that are involved in the construction of structures and provides students with the knowledge required to operate safely and effectively within residential or commercial buildings. Discussions of actual incidents experienced by the author and case studies containing critical thinking questions give students a better understanding of what to expect in the field.

Table of Contents

1. Load and Other Forces
2. Plans and Codes
3. Building Materials: Stone, Masonry, Steel, Concrete and Wood
4. Building Components
5. Building Systems
6. Building Construction Types
7. Trusses

8. Size-up
9. Collapse
10. Command of Collapse Incidents



Strategic & Tactical Considerations on the Fireground, 3/e
Jim P Smith

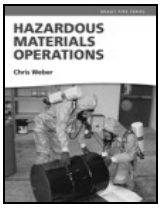
ISBN-10: 0132158817
ISBN-13: 9780132158817
608pp ©2012 Paper

Basic Approach
For fire science Strategy & Tactics courses, for professional development of firefighters and fire officers, and use in preparing for promotional examinations by company officers and chief officers.

Blending theory with personal experience, Strategic and Tactical Considerations on the Fireground, Third Edition, features over 40 years of author experience. Using a systems approach, the text covers strategic decisions as well as tactical operations, guiding students through the process of problem identification and solution response. From planning to incident scene control, this text provides knowledge that can be applied to a variety of complex fire situations.

Table of Contents

1 Preparation
2 Management Tools
3 Decision Making
4 Company Operations
5 Building Construction
6 Building Collapse and Scene Safety
7 Special Situations and Occupancies
8 Health Care and High-Risk Populations
9 Commercial and Industrial
10 Technical Operations
11 After the Incident



Hazardous Materials Operations, 1/e
Chris H Weber

ISBN-10: 0132190273
ISBN-13: 9780132190275
400pp ©2012 Paper

Basic Approach
For courses in Hazardous Materials.

Hazardous Materials Operations is designed for firefighters, law enforcement personnel, emergency medical services (EMS) providers, and industry employees that may be faced with hazardous materials emergencies. This text follows the 2008 NFPA 472 competencies and is organized to follow the logical progression of a hazardous materials response. Providing technical information that can be used for initial training and periodic recurrent training, this book must be complemented with hands-on activities designed to reinforce key response concepts. Resource Central, an online student and instructor supplements portal, is available to instructors online and has suggested hands-on activities and exercises for each , review questions, case studies and much more!

Table of Contents

1. Introduction
2. Awareness Level Personnel
3. Operations Level Responders Core Competencies: Recognizing Hazardous Materials
4. Operations Level Responders Core Competencies: Understanding Hazardous Materials
5. Operations Level Responders Core Competencies: Responding to Hazardous Materials Incidents
6. Operations Level Responders Mission Specific Competencies: Personal Protective Equipment
7. Operations Level Responders Mission Specific Competencies: Mass Decontamination
8. Operations Level Responders Mission Specific Competencies: Technical Decontamination
9. Operations Level Responders Mission Specific Competencies: Evidence Preservation and Sampling
10. Operations Level Responders Mission Specific Competencies: Product Control
11. Operations Level Responders Mission Specific Competencies: Air Monitoring and Sampling
12. Operations Level Responders Mission Specific Competencies: Victim Rescue and Recovery
13. Operations Level Responders Mission Specific Competencies: Illicit Laboratory Incidents

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Engineering Design Graphics with Autodesk® Inventor®2011, 1/e

James Bethune, *Boston University*

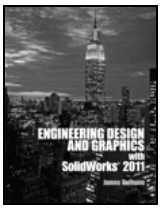
ISBN-10: 0132735946
ISBN-13: 9780132735940
792pp ©2012 Paper

Basic Approach
For courses in Engineering Design.

Using a step-by-step format, *Engineering Design Graphics with Autodesk Inventor 2011* shows students how to use Autodesk Inventor to create and document designs. test questions help students assess their understanding of key concepts. Sample problems, end-of- projects, and a variety of additional exercises reinforce the material and allow students to practice the techniques described. The content of the book goes beyond the material normally presented in an engineering graphics text associated with CAD software to include exercises requiring students to design simple mechanisms.

Table of Contents

1. Getting Started
2. Two-Dimensional Sketching
3. Three-Dimensional Models
4. Orthographic Views
5. Assembly Drawings
6. Threads and Fasteners
7. Dimensioning
8. Tolerancing
9. Springs
10. Shafts
11. Bearings
12. Gears
13. Sheet Metal Drawings
14. Weldment Drawings
15. Cams



Engineering Design Graphics with Solidworks 2011, 1/e

James Bethune, *Boston University*

ISBN-10: 0132740508
ISBN-13: 9780132740500
648pp ©2012 Paper

Basic Approach
For college or high school introductory courses in Computer-Aided Design.

Engineering Design and Graphics with SolidWorks 2011 shows students how to use SolidWorks to create engineering drawings and designs. The book focuses on the creation of engineering drawings, including dimensions and tolerances and the use of standard parts and tools. Each contains step-by-step sample problems that show students how to apply the concepts presented in the .

Table of Contents

1 Getting Started
2 Sketch Entities and Tools
3 Features
4 Orthographic Views
5 Assemblies
6 Threads and Fasteners
7 Dimensions
8 Tolerances
9 Gears
10 Bearings and Fit Tolerances
11 Cams and Springs

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Engineerng Graphics with AutoCAD 2013, 1/e

James Bethune

ISBN-10: 0132975114
ISBN-13: 9780132975117
700pp ©2013 Cloth

Residential Landscape Architecture: Design Process for the Private Residence, 6/e

Norman K. Booth, *The Ohio State University*
James E. Hiss, *Ohio State University*

ISBN-10: 0132727722
ISBN-13: 9780132727723
576pp ©2012 Paper

Basic Approach
For courses in Landscape Design.

Residential Landscape Architecture: Design Process for the Private Residence, Sixth Edition, covers the fundamentals of residential design. The text provides a thorough, how-to explanation of each of the steps of the design process–from initial contact with the client to a completed master plan. The text's numerous illustrations and useful case study examples offer a rich learning experience for students. Whether you are just starting your design career or are a current practitioner, this valuable resource is sure to enhance your skills and knowledge.

Table of Contents

SECTION 1 PHILOSOPHICAL FRAMEWORK
1 The Typical Residential Site
2 Outdoor Rooms
3 Sustainable Design

SECTION 2 DESIGN PROCESS
4 Design Process Overview
5 Meeting the Clients
6 Site Measuring and Base Map Preparation
7 Site and Design Program
8 Functional Diagrams
9 Preliminary Design and Design Principles
10 Form Composition
11 Spatial Composition
12 Material Composition and Master Plan

SECTION 3 APPLICATIONS
13 Special Projects
14 Case Studies in Alternative Design Solutions
15 Rendering Landscape Design Drawings in Color

Discovering AutoCAD 2012, 1/e

Mark Dix
Paul Riley

ISBN-10: 0132658240
ISBN-13: 9780132658249
696pp ©2012 Paper

Basic Approach
For introductory courses in AutoCAD

Discovering AutoCAD 2012 presents a hands-on, activity-based approach to the use of AutoCAD as a drafting tool–complete with techniques, tips, shortcuts, and insights that improve efficiency. Topics and tasks are carefully grouped to lead students logically through the AutoCAD command set, with the level of difficulty increasing steadily as skills are acquired through experience and practice. Straightforward explanations focus on what is relevant to actual drawing procedures, and illustrations show exactly what to expect on the computer screen. This edition features Web-based exercises, projects, and new test questions for each .

Table of Contents

Part One Basic Two-Dimensional Entities
1 Lines and Essential Tools
2 Circles and Drawing Aids
3 Layers, Colors, and Linetypes

4 Templates, Copies, and Arrays
5 Arcs and Polar Arrays
6 Object Snap

Part Two Text, Dimensions, and Other Complex Entities
7 Text
8 Dimensions
9 Polylines
10 Blocks, Attributes, and External References

Part Three Isometric Drawing and Three-Dimensional Modeling
11 Isometric Drawing
12 3D Modeling
13 More Modeling Techniques and Commands

Discovering AutoCAD 2013, 1/e

Mark Dix
Paul Riley

ISBN-10: 0132958562
ISBN-13: 9780132958561
780pp ©2013 Paper

Engineering Ethics, 4/e

Charles B. Fleddermann, *University of New Mexico*

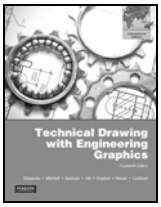
ISBN-10: 027375212X
ISBN-13: 9780273752127
192pp ©2012 Paper

Basic Approach
For use in undergraduate engineering programs incorporating ethics topics.

Engineering Ethics serves as both a textbook and a resource for the study of engineering ethics. It is written to help future engineers be prepared for confronting and resolving ethical dilemmas that they might encounter during their professional careers.

Table of Contents

1 Introduction
2 Professionalism and Codes of Ethics
3 Understanding Ethical Problems
4 Ethical Problem-Solving Techniques
5 Risk, Safety, and Accidents
6 The Rights and Responsibilities of Engineers
7 Ethical Issues in Engineering Practice
8 Doing the Right Thing



Technical Drawing with Engineering Graphics, 14/e

Frederick E. Giesecke, *Texas A&M University*
Ivan L. Hill
Henry C. Spencer, *Purdue University*
Alva E. Mitchell, *Texas A&M University*
John Thomas Dygdon, *Illinois Institute of Technology*
James E. Novak, *Illinois Institute of Technology*
Shawna Lockhart, *Montana State University*
Marla Goodman

ISBN-10: 0132729717
ISBN-13: 9780132729710
936pp ©2012 Paper

Basic Approach
For courses in Technical Drawing, Engineering Graphics, Engineering Design Communication, Drafting, Visualization, at level beginner through advanced.

Technical Drawing and Engineering Graphics, Fourteenth Edition, provides a clear, comprehensive introduction and detailed, easy-to-use reference to creating 2D documentation drawings and engineering graphics by hand or

using CAD. It offers excellent technical detail, up-to-date standards, motivating real-world examples, and clearly explained theory and technique in a colorful, highly visual, concisely written format. Designed as an efficient tool for busy, visually oriented learners, this edition expands on well-tested material, bringing its content up-to-date with the latest standards, materials, industries and production processes. Colored models and animations bring the material to life for the student on the book's companion website. Updated exercises that feature sheet metal and plastic parts are a part of the excellent Giesecke problem set.

Table of Contents

1 THE WORLDWIDE GRAPHIC LANGUAGE FOR DESIGN
2 LAYOUTS AND LETTERING
3 TECHNICAL SKETCHING
4 GEOMETRIC CONSTRUCTIONS
5 ORTHOGRAPHICS PROJECTION
6 DRAWING REPRESENTATION
7 SECTION VIEWS
8 AUXILIARY VIEWS
9 MANUFACTURING PROCESSES
10 DIMENSIONING
11 TOLERANCING
12 THREADS, FASTENERS, AND SPRINGS
13 WORKING DRAWINGS
14 DRAWING MANAGEMENT
15 AXONOMETRIC PROJECTION
16 PERSEPCTIVE DRAWINGS
17 GEARS AND CAMS
18 ELECTRONIC DIAGRAMS
19 STRUCTURAL DRAWING
20 LANDFORM DRAWINGS
21 PIPING DRAWINGS
22 WELDING REPRESENTATION

Revit 2012, 1/e
H. Edward Goldberg

ISBN-10: 0132955105
ISBN-13: 9780132955102
648pp ©2013 Paper

Sheet Metal Drafting Using Solidworks, 1/e
James M. Kirkpatrick, *Eastfield College*

ISBN-10: 0132675838
ISBN-13: 9780132675833
360pp ©2012 Paper

Basic Approach
For courses in Basic SolidWorks, Basic Computer-Aided Design, Sheet Metal Design Using SolidWorks.

Sheet Metal Drafting Using SolidWorks® teaches basic drafting techniques and sheet metal drafting using SolidWorks. The text begins with simple solid models and proceeds to complex sheet metal assemblies with drawings, exploded views, parts lists, revisions, and other items related to the field. The material is presented so that users can learn SolidWorks Sheet Metal and basic drafting techniques by actually using the program in real-world situations. Written specifically for the student version of SolidWorks, this text is ideal for online and lecture courses.

Table of Contents

1. Setting up the First Models, Drawing and Modifying Them Using Drawing Constructions
2. Making a Drawing with Dimensions from the First Model
3. Making More Complex Models and Drawings with Dimensions from those Models
4. Making Extruded and Revolved Features with Extrude Cuts and Assigning Materials to the Models
5. Using Extrude Cut, Hole Simple and Hole Wizard to Make Complex Models and Drawings with Dimensions including Tolerances
6. Sheet Metal Design

7. Sheet Metal Design II and Drawing
8. Making a Front Panel, a Rear Panel, a Chassis and a Cover for a Sheet Metal Assembly and Make Detail Drawings of All Four Parts One of which Will Have a Hole Table
9. Assembly Nut Plates on the Chassis and Front Panel for the Assembly
10. Assemble All of the Components for the Sheet Metal Assembly and Make an Exploded View.
11. Make an Assembly Drawing and a Parts List
12. On Your Own Projects with Detailed Instructions for Making Assemblies, Exploded Views, Assembly Drawings and Parts Lists

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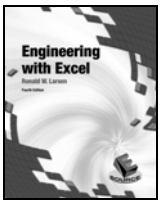
AutoCAD 2013 for Interior Design and Space Planning, 1/e
Beverly M. Kirkpatrick
James M. Kirkpatrick

ISBN-10: 0132987686
ISBN-13: 9780132987684
640pp ©2013 Paper



Engineering with Excel, 4/e
Ronald W. Larsen, Montana State University

ISBN-10: 0132788659
ISBN-13: 9780132788656
720pp ©2013 Paper

Basic Approach
For introductory courses in Engineering and Computing
Based on Excel 2007, Engineering with Excel, 4e takes a comprehensive look at using Excel in engineering. This book focuses on applications and is intended to serve as both a textbook and a reference for students.

Table of Contents
ABOUT THIS BOOK
1 • INTRODUCTION TO EXCEL
2 • USING EXCEL'S RIBBON
3 • GRAPHING WITH EXCEL
4 • EXCEL FUNCTIONS
5 • MATRIX OPERATIONS IN EXCEL
6 • LINEAR REGRESSION IN EXCEL
7 • EXCEL'S STATISTICS FUNCTIONS
8 • EXCEL'S FINANCIAL FUNCTIONS
9 • ITERATIVE SOLUTIONS USING EXCEL
10 • SHARING EXCEL INFORMATION WITH OTHER PROGRAMS
11 • EXCEL PIVOT TABLES
12 • MACROS AND USER-WRITTEN FUNCTIONS FOR EXCEL
13 • USER-WRITTEN FUNCTIONS FOR EXCEL
14 • PROGRAMMING IN EXCEL WITH VBA
15 • NUMERICAL DIFFERENTIATION USING EXCEL
16 • NUMERICAL INTEGRATION USING EXCEL
17 • NUMERICAL INTEGRATION TECHNIQUES FOR DIFFERENTIAL EQUATIONS USING EXCEL

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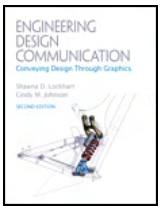
Projects for Engineering Computation, 1/e
Ronald W. Larsen

ISBN-10: 0132494922
ISBN-13: 9780132494922
500pp ©2013 Cloth



Engineering Design Communications: Conveying Design Through Graphics, 2/e
Shawna Lockhart, *Montana State University*
Cindy Johnson

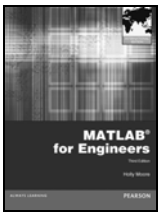
ISBN-10: 0137057148
ISBN-13: 9780137057146
576pp ©2012 Paper

Basic Approach
For courses in engineering graphics with an emphasis on 3D modeling; beginning engineering design courses that include graphics topics; 3D Modeling courses in Mechanical Engineering.

Engineering Design Communication: Conveying Design Through Graphics, Second Edition, offers a new approach to the traditional engineering graphics course. This text is designed for students who are learning to use graphics, especially 3D modeling, as a tool for engineering design. The text takes a streamlined approach, emphasizing the how and why of 2D sketching, reading and visualizing objects from 2D views, and creating 3D models that will function as the design database. Case studies and industry examples illustrate ways that these skills support practicing engineers in their work. Students will learn to develop models that capture the design intent for a product or system, update properly when changes are made, and serve the many purposes associated with their role as the design database. Practical tips and step-by-step instruction support the hands-on nature of the course. The text is designed to be used with any modeling package, but it can be bundled with the SolidWorks Student Design Kit (and the authors point out specific SolidWorks tutorials that coordinate well with the s).. A reverse engineering project is continued through the text.

Table of Contents

1 Graphics and the Design Process
2 Ideation and Visualization
3 Multiview Sketching
4 Using Geometry for Modeling and Design
5 Modeling and Refinement
6 Constraint-Based Modeling
7 Modeling for Manufacture and Assembly
8 Using the Model for Analysis and Prototyping
9 DocumentAtionDrawings
10 Tolerance
[Web only]
11 Implementation
12 Drawing Control And Data Management
13 Animation And Presentation Graphics



MATLAB for Engineers, 3/e
Holly Moore

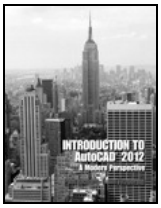
ISBN-10: 0273764160
ISBN-13: 9780273764168
672pp ©2012 Paper

Basic Approach
For Freshman or Introductory courses in Engineering and Computer Science.

With a hands-on approach and focus on problem solving, this introduction to the powerful MATLAB computing language is designed for students with only a basic college algebra background. Numerous examples are drawn from a range of engineering disciplines, demonstrating MATLAB's applications to a broad variety of problems.

Table of Contents

1 ABOUT MATLAB®
2 MATLAB® ENVIRONMENT
3 BUILT-IN MATLAB® FUNCTIONS
4 MANIPULATING MATLAB® MATRICES
5 PLOTTING
6 USER-DEFINED FUNCTIONS
7 USER-CONTROLLED INPUT AND OUTPUT
8 LOGICAL FUNCTIONS AND SELECTION STRUCTURES
9 REPETITION STRUCTURES
10 MATRIX ALGEBRA
11 OTHER KINDS OF ARRAYS
12 SYMBOLIC MATHEMATICS
13 NUMERICAL TECHNIQUES
14 ADVANCED GRAPHICS
15 CREATING GRAPHICAL USER INTERFACES
16 SIMULINK®–A BRIEF INTRODUCTION



Introduction to AutoCAD 2012: A Modern Perspective, 1/e

Paul Richard, *College of Staten Island*
Jim Fitzgerald

ISBN-10: 0132725177
ISBN-13: 9780132725170
960pp ©2012 Paper

Basic Approach

This text is appropriate for Introductory and Intermediate AutoCAD courses.

This modern text addresses advances in technology and introduces students to 2- dimensional drawing skills and commands using the current release of AutoCAD. It continuously builds on concepts covered in previous s, contains exercises combined with in-text notes, and offers examples that provide the "how and why" of AutoCAD fundamentals. Projects are included at the end of each and provide hands-on experience creating various types of mechanical, architectural, civil and electrical drawings.

Table of Contents

Part One An Introduction to AutoCAD
1 Introduction to AutoCAD 2 Quick Start Tutorial

Part Two Drafting Skills:Drawing with AutoCAD
3 Controlling the Drawing Display 4 Basic Drawing Commands
5 Drawing Tools and Drafting Settings
6 Managing Object Properties

Part Three Understanding Editing Techniques: Basics Through Advanced
7 Basic Editing Techniques
8 Advanced Editing Techniques

Part Four Working with Complex Objects
9 Drawing and Editing Complex Objects
10 Pattern Fills and Hatching

Part Five Annotating Drawings
11 Adding Text 12 Working with Tables
13 Dimensioning Drawings Part Six Outputting Your Work

Part Six Outputting Your Work
14 Managing Paper Space Layouts
15 Plotting and Publishing

Part Seven Advanced Drawing and Construction Methods
16 Blocks and Block Attributes
17 Working with External References
18 Drawing Management Tools and Utilities

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Introduction to AutoCAD 2013: A Modern Perspective, 1/e

Paul Richard, *College of Staten Island*
Jim Fitzgerald

ISBN-10: 0132954753
ISBN-13: 9780132954754
950pp ©2013 Paper

ISBN: 9780132954754

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Engineering Computation with MATLAB, 3/e

David M. Smith

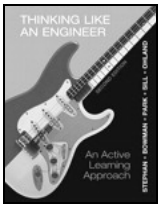
ISBN-10: 0273769138
ISBN-13: 9780273769132
512pp ©2012 Paper Bound with PIN

Basic Approach

This textbook is ideal for MATLAB/Introduction to Programming courses in both Engineering and Computer Science departments.

Engineering Computation with MATLAB introduces the power of computing to engineering students who have no programming experience. The book places the fundamental tenets of computer programming into the context of MATLAB, employing hands-on exercises, examples from the engineering industry, and a variety of core tools to increase programming proficiency and capability. With this knowledge, students are prepared to adapt learned

concepts to other programming languages.



Thinking Like an Engineer: An Active Learning Approach, 2/e

Elizabeth A. Stephan, Clemson University
William J. Park, Clemson University
Benjamin L. Sill, Clemson University
David R. Bowman, Clemson University
Matthew W. Ohland, Purdue University

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ISBN-13: 9780132766715
768pp ©2013 Spiral Bound

Basic Approach

THINKING LIKE AN ENGINEER: AN ACTIVE LEARNING APPROACH is specifically designed to utilize an active learning environment for first year engineering courses.

• In-class activities include collaborative problem-solving, computer-based activities, and hands-on experiments, encouraging guided inquiry.
• Homework assignments and review sections reinforce and expand on the activities.
• Content can be customized to match the topic organization in your course syllabi.

Business of Massage Therapy, The: Building a Successful Career, 1/e

Jessica Abegg, *Pennslyvania State University*

ISBN-10: 0135053617
ISBN-13: 9780135053614
352pp ©2012 Paper

Basic Approach

For all courses in massage/holistic business and development, for both students and current practitioners in wellness and holistic medicine.

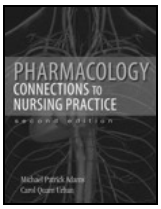
This is the premiere guide to managing a successful massage career and running a successful holistic business. Written by veteran massage therapist and holistic business coach Jessica Abegg (LMT, MBA, MSIB), this visual, hands-on book contains all the tools readers need. It focuses on both practical concerns (such as finance and legal organization), and intangible elements of success (reflection, balance, and self-care). It also includes vital information on marketing and the Internet: knowledge often absent in the high-touch, low-tech world of massage. Throughout, it reflects the growing recognition that it is urgently important to help practitioners manage businesses and careers more successfully, as reflected in the inclusion of Business Practices in the new Massage Therapy Body of Knowledge.

Table of Contents

PART I. THRIVING PROFESSIONAL DEVELOPMENT FOR THE MASSAGE THERAPIST
1. Is a Massage Therapy Career Right for You?
2. Career Strategies and Professional Development
3. Time Management 101
4. Professional Issues
5. Self-Care
6. Networking
7. Internal Abundance: Personal Financial Planning Basics

PART II. A THRIVING MASSAGE BUSINESS TO CALL YOUR OWN
8. Your Own Practice: Getting Started
9. Location, Location, Location
10. Organizing and Legal Structuring
11. Marketing Fundamentals
12. More Marketing for Massage
13. External Abundance: Financial Management for Your Business
14. Managing Yourself and Others
15. Leveraging the Internet

APPENDICES
Appendix A Answer Key
Appendix B Documents, Samples and Activities
Appendix C Endnotes
Glossary



Pharmacology: Connections to Nursing Practice, 2/e

Michael Adams, Pasco-Hernando Community College
Carol Urban

ISBN-10: 0132814420
ISBN-13: 9780132814423
1536pp ©2013 Cloth

ISBN: 9780132814423

Basic Approach

For courses in Pharmacology.

PHARMACOLOGY: CONNECTIONS TO NURSING PRACTICE, 2/e tightly links pharmacology to nursing practice and patient care, recognizing that for nurses, pharmacology is not an abstract academic discipline but rather a critical tool to prevent disease and promote healing and wellness. It offers unsurpassed features designed to illuminate connections between pharmacology and practice, from patient scenarios and practice applications to coverage of lifespan considerations, patient education, alternative therapies, and gender/cultural influences. Nine additional units illuminate the actions of individual drugs on each body system and disease. Learning is simplified through the use of prototype drugs, as well as outstanding full-color illustrations, complemented by 45 web-based animations. This edition covers 30+ new drugs, and offers updated information about dosages, indications, and adverse effects throughout, including Black Box Warnings.

Table of Contents

Unit 1. Fundamental Principles of Pharmacology
1. Introduction to Pharmacology: Concepts and Connections
2. Drug Regulations
3. Principles of Drug Administration
4. Pharmacokinetics
5. Pharmacodynamics
6. Adverse Drug Effects and Drug Interactions
7. Medication Errors and Risk Reduction
8. Pharmacology of Substance Abuse

Unit 2. Pharmacology and the Nurse-Patient Relationship
9. Pharmacology and the Nursing Process
10. Pharmacotherapy During Pregnancy and Lactation
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12. Pharmacotherapy of the Geriatric Patient
13. Psychosocial, Gender, and Cultural Influences on Pharmacotherapy
14. Pharmacotherapy and Population-Based Care
15. The Role of Complementary and Alternative Therapies in Pharmacotherapy

Unit 3. Pharmacology of the Autonomic Nervous System
16. Review of Neurotransmitters and the Autonomic Nervous System
17. Cholinergic Agonists
18. Cholinergic Antagonists
19. Adrenergic Agonists
20. Adrenergic Antagonists

Unit 4. Pharmacology of the Central Nervous System
21. Review of the Central Nervous System
22. Pharmacotherapy of Anxiety and Insomnia
23. Pharmacotherapy of Mood Disorders
24. Pharmacotherapy of Psychoses
25. Pharmacotherapy of Degenerative Diseases of the Central Nervous System
26. Pharmacotherapy of Seizures
27. Pharmacotherapy of Muscle Spasms and Spasticity
28. Central Nervous System Stimulants and Drugs for Attention/Deficit Hyperactivity Disorder
29. Pharmacotherapy of Severe Pain and Migraines
30. Anesthetics and Anesthesia Adjuncts

Unit 5. Pharmacology of the Cardiovascular System
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32. Pharmacotherapy of Hyperlipidemia
33. Calcium Channel Blockers
34. Drugs Affecting the Renin-Angiotensin-Aldosterone System
35. Diuretic Therapy and the Pharmacotherapy of Renal Failure
36. Pharmacotherapy of Fluid, Electrolyte, and Acid-Base Disorders
37. Pharmacotherapy of Hypertension
38. Pharmacotherapy of Angina Pectoris and Myocardial Infarction
39. Pharmacotherapy of Heart Failure
40. Pharmacotherapy of Dysrhythmias
41. Pharmacotherapy of Coagulation Disorders
42. Pharmacotherapy of Hematopoietic Disorders

Unit 6. Pharmacology of Body Defenses
43. Review of Body Defenses and the Immune System
44. Pharmacotherapy of Inflammation and Fever
45. Immunostimulants and Immunosuppressants
46. Immunizing Agents

Unit 7. Pharmacology of the Respiratory System and Allergy
47. Pharmacotherapy of Asthma and Other Pulmonary Disorders
48. Pharmacotherapy of Allergic Rhinitis and the Common Cold

Unit 8. Pharmacology of Infectious and Neoplastic Disease
49. Basic Principles of Anti-Infective Pharmacotherapy
50. Antibiotics Affecting the Bacterial Cell Wall
51. Antibiotics Affecting Bacterial Protein Synthesis
52. Fluoroquinolones and Miscellaneous Antibacterials
53. Sulfonamides and the Pharmacotherapy of Urinary Tract Infections
54. Pharmacotherapy of Mycobacterial Infections
55. Pharmacotherapy of Fungal Infections
56. Pharmacotherapy of Protozoan and Helminthic Infections
57. Pharmacotherapy of Non-HIV Viral Infections
58. Pharmacotherapy of HIV-AIDS
59. Basic Principles of Antineoplastic Therapy
60. Pharmacotherapy of Neoplasia

Unit 9. Pharmacology of the Gastrointestinal System
61. Review of the Gastrointestinal System
62. Pharmacotherapy of Peptic Ulcer Disease
63. Pharmacotherapy of Bowel Disorders and Other Gastrointestinal Conditions
64. Vitamins and Minerals
65. Enteral and Parenteral Nutrition
66. Weight Reduction Strategies and the Pharmacotherapy of Obesity

Unit 10. Pharmacology of the Endocrine System
67. Review of the Endocrine System
68. Hypothalamic and Pituitary Drugs
69. Pharmacotherapy of Diabetes Mellitus
70. Pharmacotherapy of Thyroid Disorders

71. Corticosteroids and Drugs Affecting the Adrenal Cortex
72. Estrogens, Progestins, and Drugs Modifying Uterine Function
73. Drugs for Modifying Conception
74. Drugs for Disorders and Conditions of the Male Reproductive System
Unit 11. Additional Drug Classes
75. Pharmacotherapy of Bone and Joint Disorders
76. Pharmacotherapy of Dermatologic Disorders
77. Pharmacotherapy of Eye and Ear Disorders
78. Emergency Preparedness: Bioterrorism and Management of Poisoning
Glossary
Appendices
A. Answers to Critical Thinking Questions, Case Study, and NCLEX-RN® Review
B. Top 200 Drugs Ranked by Number of Prescriptions
C. Canadian Drugs and Their U.S. Equivalents.
D. Oral Dosage Forms That Should Not be Crushed
E. High Alert Medications
F. Confused Drug Names

Health Law and Medical Ethics, 1/e

James Allen, Lansing Community College

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ISBN-13: 9780135027998
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ISBN: 9780135027998

Basic Approach

For courses in health law and medical ethics in *any* healthcare professional program, including dental, physician, nursing, nursing or physician's assistant, occupational or physical therapy, radiology technologist, respiratory or surgical technologist, and other fields.

Conversational, relevant, and engaging, this is today's most effective introduction to health law and medical ethics. The only book of its kind, it combines a visual, engaging, and modern design with scrupulous accuracy about the law, reflecting the author's experience as a legal professional. It addresses the most recent trends in law and ethics, treating both areas with equal depth and insight, and demonstrating their deep interconnections. Coverage includes: how the law works; responsibilities of healthcare professionals; medical records, insurance, torts, and negligence; ethical decision-making; the beginning and end of life; bioethics; the future of healthcare, issues associated with diversity, and much more. Pedagogical features include many case studies and case analyses, Legal Alert and "Concept Application" boxes, discussion questions, and a glossary.

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Leadership for Quality and Safety in Nursing: Core Competencies for Quality, 1/e

Kim Amer

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ISBN-13: 9780132724128
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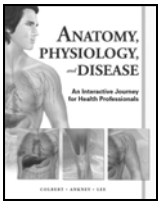
ISBN: 9780132724128



Anatomy, Physiology, & Disease: An Interactive Journey for Health Professions, 2/e

Jeff J. Ankney, University of Pittsburgh, Johnstown
Karen Lee, University of Pittsburgh, Johnstown
Bruce J. Colbert

ISBN: 9780132865661

ISBN-10: 0132865661
ISBN-13: 9780132865661
864pp ©2013 Paper Bound w/CD-ROM

Basic Approach
For all combined courses covering anatomy, physiology, and pathology in allied health programs, four year degree programs, military healthcare training centers, and other programs; for standard A&P I and II courses; and as an advanced high school courses.
This engaging, conversational book introduces all the anatomy, physiology, and pathology concepts that students must master to succeed in the health professions. It's designed to promote true understanding, not mere memorization, and to help students make the lasting connections they need to thrive as practitioners. Throughout, well-placed "Pathology Connections" sections tightly link A&P concepts to pathologic processes. Analogies help students compare the human body to objects and processes they already understand, and illustrations and visual features support the visual learning style many of them prefer. This edition adds new web-based animations, videos, and interactive exercises to its fully integrated website. It also offers an easier-to-navigate text design; enriched illustrations and new photographs; and a new on biochemistry.

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Appendix G: Standard and Transmission Based Precautions

Sport Psychology: From Theory to Practice, 5/e

Mark H. Anshel, *Middle Tennessee State University*

ISBN-10: 0321732499
ISBN-13: 9780321732491
400pp ©2012 Paper

Basic Approach
Sport Psychology, Fifth Edition provides a comprehensive overview of sport and exercise psychology. This text outlines the theoretical framework and provides the necessary psychological foundation of sport psychology while offering students a real-life handbook approach to using psychological strategies as a sport participant and coach. This unique book stresses an applied approach to the field and presents scientific research and empirical data without the use of technical jargon. The **Fifth Edition** features substantial content updates, a new organization that better lends itself to classroom use, and case studies for additional real world application.

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3. Youth Sports: Special Considerations and Needs of Child Athletes
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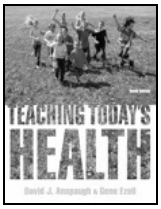
10. Applying Sport Psychology: Athletes Speak for Themselves
III. COACHING PSYCHOLOGY
11. Effective Communication: The Foundation of Effective Leadership
12. Leadership and Coaching in Sport
13. Team Cohesion and Group Dynamics
IV. Psychology of Physical Activity
14. Applied Exercise Psychology
15. Conclusions and Future Directions



Teaching Today's Health, 10/e

David Anspaugh, Professor Emeritus, University of Memphis
Gene Ezell, University of Tennessee at Chattanooga

ISBN-10: 0321793919
ISBN-13: 9780321793911
522pp ©2013 Paper

Basic Approach

Teaching Today's Health, Tenth Edition, balances comprehensive theory with a wealth of effective classroom activities to give students the tools they need to become successful health educators.
This book's strong background and depth in teaching methods prepares the student for the challenges of today's teaching environment.

- **Meaningful content enhancements** include expanded coverage of bullying and obesity, body systems, and substance abuse and a new Creativity in the Classroom feature and an Index of Strategies).
- **Important currency updates** include a significantly updated nutrition with new MyPlate and 2010 Dietary Guidelines and more technology coverage.
- **Helpful Companion Website** include all Worksheets available in PDF form, for easy copying to hand out to students in class, and a new easy-to-reference Glossary.

Priced significantly less than other books in the market, this attractive two-color book provides a great value to students.

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24. Strategies for Teaching About Aging, Dying, and Death
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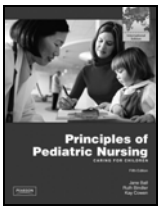
26. Strategies for Teaching Environmental Health



Principles of Pediatric Nursing: Caring for Children, 5/e

Jane W. Ball, *EMSC National Resource Center*
Ruth C. Bindler, *Washington State University*
Kay J. Cowen, *University of North Carolina, Greensboro*

ISBN-10: 013257313X
ISBN-13: 9780132573139
1200pp ©2012 Cloth

Basic Approach

For Pediatric Nursing courses in associate and baccalaureate degree programs.

Written for today's nurse, this book explores the conditions and nursing interventions for health conditions affecting children, adolescents and their families. Emphasizing research and evidence-based practice, it organizes material by body system instead of developmental stage, allowing faculty to teach pediatrics in integrated courses/short courses without redundancy. This edition includes a new on genetic and genomic influences, more emphasis on culturally competent care, and new features that emphasize clinical reasoning and health promotion. Designed to help students bridge the gap between classroom and clinical situations, the book emphasizes health promotion and maintenance, growth and development, and family-centered care.

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F. Temperature and Weight Conversion

Care Planning: A guide for nurses, 2/e

David Barrett
Benita Wilson
Andrea Woollands

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ISBN-13: 9780273746119
224pp ©2012 Paper

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12 - Rechecking and evaluation
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Appendix C - Shoaib Hameed

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Business of Sport Management, 2/e
John Beech
Simon Chadwick

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ISBN-13: 9780273721338
600pp ©2013 Paper

ISBN: 9780273721338

Basic Approach
The scale and importance of the lucrative sport industry demands quality business professionals. This ground-breaking new book equips the manager and future manager of sport organisations with the tools they need to deliver. **The Business of Sport Management** is ideal for students of sports management on programmes of leisure studies, sports studies and business studies. Written and contributed to by leading academics and practitioners in UK, Europe and Australia it is also of great interest to practitioners working in sport businesses. Blending both theory and practice **The Business of Sports Management** looks at the distinctive context of sport organisations. It then looks at management theories and practice within the functional areas such as finance, human resource management and marketing. Finally it considers contemporary issues of importance such as sponsorship and endorsement, risk management and the media. Set in an international environment the authors have been careful to choose stimulating examples from a wide variety of sports.

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1 Introduction - Introduction – The Commercialisation of Sport
John Beech & Simon Chadwick, Coventry
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Chris Parker, Nottingham Trent & Alan Barnard
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Jon Guest, Coventry
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19 Risk Management in Sport
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Simon Chadwick, Coventry

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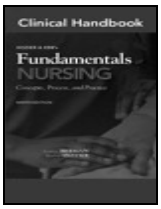
Simon Chadwick & John Beech, Coventry

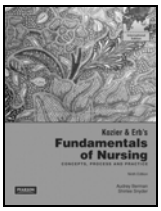


Clinical Handbook for Kozier & Erb's Fundamentals of Nursing, 9/e

Audrey J. Berman
Shirlee Snyder

ISBN-10: 0138024642
ISBN-13: 9780138024642
288pp ©2012 Paper

Basic Approach
KOZIER & ERB'S FUNDAMENTALS OF NURSING, 9/E presents the fundamentals of nursing care within the framework of the nursing process. This corresponding Clinical Handbook is the perfect companion resource to Kozier, *KOZIER & ERB'S FUNDAMENTALS OF NURSING, 9/E.* It is ideal for quick reference or for use during clinical. An accessible writing style presents all the material essential for mastery.



Kozier & Erb's Fundamentals of Nursing, 9/e

Audrey J. Berman
Shirlee Snyder

ISBN-10: 0132611376
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1632pp ©2012 Paper

Basic Approach
For fundamentals of nursing courses in the nursing curriculum.

KOZIER & ERB'S FUNDAMENTALS OF NURSING, 9/e thoroughly addresses the key concepts of contemporary professional nursing, helping nurses grow and evolve to meet the demands of a dramatically changing health care system. The Ninth Edition's content has been systematically revised to reflect new evidence, and a stronger emphasis on aging, wellness, safety, and home- and community-based care. Its objectives have been updated and mapped to support QSEN Competencies, AACN Essentials, the NCLEX-RN® 2010 test plan, and the 2010 ANA Scope and Standards of Practice. Coverage includes: health promotion, disease prevention, holistic care, multiculturalism, nursing theories, informatics, research, ethics, advocacy, and many other topics. Designed for use with any nursing theory or conceptual framework, this edition contains several new pedagogical features, including new Safety and Self-Care alerts.

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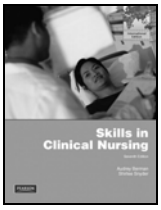

Skills in Clinical Nursing, 7/e
Audrey J. Berman
Shirlee Snyder

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ISBN-13: 9780132659024
912pp @2012 Paper

Basic Approach
For use as a primary textbook in clinical nursing education programs, and as a reference for practicing nurses.

Skills in Clinical Nursing, Seventh Edition provides detailed procedures on the most relevant skills performed by nurses as they enter practice. It includes all common variations and is organized from the simplest to the most complex. This edition has been revised, restructured, and updated to reflect current practice, responding to extensive feedback from clinical nurses, market surveys, and the authors' own teaching and practice experience. Each contains concise introductory material, placing skills in the context of anatomy, physiology, and pathophysiology, and clearly explaining their purpose and rationale. Each skill is then presented in exceptional step-by-step detail, with 800+ illustrations. Skills coverage is complemented by critical-thinking insights on using assessment data, and essential guidance on appropriate delegation to unlicensed assistive personnel (UAP).

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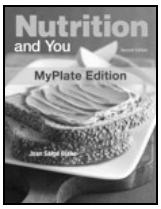

Nutrition and You, MyPlate Edition, 2/e
Joan Salge Blake, *Boston University*

ISBN-10: 0321813715
ISBN-13: 9780321813718
720pp ©2012 Paper

Basic Approach
With a new Consumerism , enhanced art and photo program, and timely updates, this **Second Edition** of **Nutrition and You** continues to personalize nutrition for students–helping them make healthy nutrition choices and encouraging them to become informed consumers of nutrition information.

This readable, engaging, and motivating presentation introduces each vitamin and mineral in self-contained spreads called Visual Summary Tables that appeal to today's visual learners. Students learn to identify the key aspects of each nutrient at a glance and in a consistent, easy-to-study format. Blake encourages students to relate the science of nutrition to their own dietary habits, enabling them to separate fact from fiction and to distinguish high-quality nutrient sources from those of lesser quality. Blake's approach teaches students to think critically about information sources and the claims made in the popular press and online.

The **MyPlate Edition** features a write-to-fit update so that students and instructors have the latest nutrition information right within their book (and instructors don't have to change their syllabus). New information includes the new MyPlate graphic (which replaces the former MyPyramid), the 2010 Guidelines, and the new Dietary Reference Intakes.

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1. What is Nutrition?
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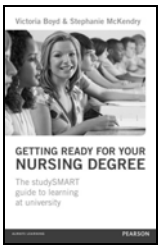

Getting Ready for your Nursing Degree: the studySMART guide to learning at university, 1/e

Victoria Boyd
Stephanie McKendry

ISBN-10: 0273750895
ISBN-13: 9780273750895
192pp ©2012 Paper

Basic Approach

More and more people are considering a career in nursing or healthcare, but the thought of undertaking an academic degree at university can be intimidating. Whether students are moving straight from school or college or have been away from education for some time, *Getting Ready for your Nursing Degree* is essential preparation for anyone considering becoming or about to become a nursing student.

It looks at all aspects of university work in a straightforward way and provides advice, examples and activities designed to help students get the most out of classes, research and assessments, from the first lecture right through to sitting exams and learning on placement.
Designed with nursing students in mind, this small but perfectly formed guide is tailored to help develop the skills students will need not only for their course but for their career and lifelong learning as a registered healthcare practitioner.

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3 Getting ready for classes
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6 getting ready for the essay writing process
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8 getting ready for other assessments

Older Adult Nursing Care, 1/e

Nancy J. Brown, San Juan Basin Technical School
Linda Eby, Portland Community College

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352pp ©2013 Paper

Basic Approach

For courses in geriatric or gerontological nursing; as an adjunct to Medical-Surgical, Assessment, and Clinical Skills courses in LPN/LVN programs; and as a resource book for long-term care facilities, clinics that serve older adults, assisted living and day care facilities, and acute care facilities.
This text equips students LPN/VNs with the knowledge and skills needed to provide competent, compassionate care for the nation's older adults. It first provides an overview of issues related to the older adult, from financial concerns and age discrimination to sleep, safety, pharmacology, pain management, and end-of-life issues. Next, it delves more specifically into the unique physiological and psychological changes and challenges many older adults face. Each body system is covered separately, and related mental health issues (including cognitive changes and developmental disabilities) are addressed in depth. Throughout, the text emphasizes health promotion and education: positive steps that nurses can take to help older adults live a healthier and more productive life. The author also provides tools and resources readers can use when they assume leadership and management roles, and stresses the importance of continued professional development.

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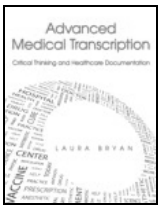

Advanced Medical Transcription: Critical Thinking and Healthcare Documentation, 1/e

Laura Bryan

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ISBN-13: 9780138014131
504pp ©2013 Paper

ISBN: 9780138014131

Basic Approach
For courses in Medical Transcription Level 2 or 3.
Advanced Medical Transcription bridges the gap between textbook medical terminology and "doctor speak." Fostering critical thinking and listening skills, this text demonstrates how foundational knowledge of physiology and disease processes combined with contextual clues can help decipher difficult dictation, discriminate sound-alike words and phrases, guide research efforts, and efficiently produce accurate documentation. The text's unique approach to terminology places an emphasis on medical phrases and medical lingo as opposed to individual terms. Exercises and activities throughout each use authentic dictation from acute-care and ambulatory settings and cover a variety of medical specialties and accents.

Table of Contents

1 USING CRITICAL THINKING TO INCREASE ACCURACY
2 INTERNAL MEDICINE
3 GASTROENTEROLOGY THE ALIMENTARY TRACT
4 GASTROENTEROLOGY THE ORGANS
5 ORTHOPEDICS THE APPENDICULAR SKELETON
6 ORTHOPEDICS THE SPINE
7 UROLOGY AND NEPHROLOGY
8 PULMONOLOGY
9 CARDIOLOGY
10 IMMUNOLOGY
11 OBSTETRICS AND GYNECOLOGY
12 HEMATOLOGY AND ONCOLOGY

No image available

Information Technology for the Health Professions, 4/e

Lillian Burke, Middlesex (NJ) Community College
Barbara Weill, Middlesex (NJ) Community College

ISBN-10: 0132897644
ISBN-13: 9780132897648
368pp ©2013 Paper

ISBN: 9780132897648

Basic Approach
For courses covering health information technology in any allied health program or nursing program in college, university, community college, high school, or vocational school.
Now significantly expanded and fully updated, this is the ideal information technology primer for readers working in any healthcare field, including allied health, nursing, medical/dental/pharmaceutical assisting, or medical administration. It fully addresses each key issue in contemporary healthcare IT, including the accelerating migration towards electronic health records. New coverage includes: smartphones, tablets, and their healthcare applications; the role of healthcare reform in promoting health IT; EHR meaningful use criteria; new practice

management scheduling software; the growth of telemedicine; new problems in public health; interventional radiology; surgery-related nanotechnology; information-related biotech and pharmaceutical trends; expanded applications in psychiatry and rehabilitation; genetic privacy; and much more.

Table of Contents

1. Introduction to Information Technology—Hardware, Software, and Telecommunications
2. Medical Informatics: The American Recovery and Reinvestment Act, HITECH, and The Health Information Technology Decade
3. An Introduction to the Administrative Applications of Computers: Practice Management: Scheduling and Accounting
4. Telemedicine
5. Information Technology in Public Health
6. Information Technology in Radiology
7. Information Technology in Surgery—the Cutting Edge
8. Information Technology in Pharmacy
9. Information Technology in Dentistry
10. Informational Resources: Computer-Assisted Instruction, Expert Systems, Health Information Online
11. Information Technology in Rehabilitative Therapies: Computerized Medical Devices, Assistive Technology, and Prosthetic Devices
12. Security and Privacy in an Electronic Age

No image available

Nursing & Health Survival Guide: Palliative Care, 1/e

Heather Campbell

ISBN-10: 0273760629
ISBN-13: 9780273760627
80pp ©2012 Paper

Table of Contents

Introduction.
Section 1. What is palliative care?
Section2. The patient journey
Section 3. Role of the nurse
Section 4. Communication in palliative care
Section 5 Holistic assessment
Section 6 Symptom management in palliative and end of life care
Section 7 Pain management
Section 8 Nausea and vomiting
Section 9 Breathlessness
Section 10 constipation
Section 11. Fatigue
Section 12 Care at end of life
Section 13 Symptoms at end of life
Section 14. A good death
Section 15. Care in the last few weeks and days
Section.16. Supporting family and carers
Section 17. Looking after self

No image available

Caring for Children and Young People, 1/e

Carol Chamley

ISBN-10: 0273724959
ISBN-13:9780273724957
304pp ©2013 Paper

Basic Approach

Caring for Children and Young People introduces students to the fundamental perspectives which underpin care delivery to children, young people and families. This includes subjects such as developmental A&P, normal child development, child and family-centred care, caring for the acutely ill child, and children and young people with complex needs. There is also a focus on healthy children and issues relating to child and adolescent mental health, and safeguarding children and young people.

The text is a user friendly and interactive guide for children and young people's nursing students. It can be used throughout the degree and will introduce your students to the fundamentals of nursing children and young people.

After reading this book they will be feel informed about the issues which concern the care of children and young people and will be able to start their placements with confidence, and be ready to deliver safe and effective care to children, young people and families.

Table of Contents

1 An Introduction to Caring for Children and Young People
2 Promoting Health and Well- being
3 Developmental Anatomy and Physiology of Infants, Children and Young People.
4 Child Development
5 Safeguarding and Protecting Children and Young People
6 Communicating With Children and Young People.
7 Child and Family Centred-Care
8 Caring for Acutely Ill and Injured Children and Young People.
9 Complex Care in the Community
10 Adolescence: The Inbetweeners
11 A Painful Experience: Pain Management .
12 Child and Adolescent Mental Health (CAMH)
13 Evidence-based Practice :The building Block for the Everyday Care of Children and Young People
14 Reflective Practice :The Value of Reflective Practice when Caring for Children and Young People

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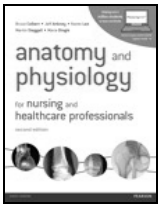

Anatomy and Physiology for Nursing and Healthcare, 2/e
Bruce Colbert
Jeff Ankney
Karen Lee
Martin Steggall
Maria Dingle

ISBN-10: 0273758144
ISBN-13: 9780273758143
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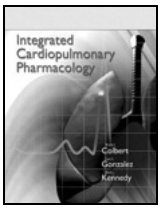
Basic Approach

Anatomy and Physiology for Nursing and Healthcare Professionals second edition, now including MasteringA&P, is the most comprehensive, yet accessible, introductory text on anatomy and physiology available today. Designed specifically for students of nursing and allied healthcare (including Paramedics, Physios, Occupational Therapists, complimentary medicine and many more), this textbook is the perfect companion while studying at college, university and beyond.

With an applied, full colour visual approach, this best selling book covers the structure and functions of the human body in detail. Crucially, Clinical applications features throughout the text show the relevance of that knowledge in clinical practice and help to close the theory/practice gap.

Table of Contents

1 Anatomy and physiology: learning the language
2 The human body: reading the map
3 Biochemistry
4 The cells: the raw materials and building blocks
5 Tissues and systems: the inside story
6 The skeletal system: the framework
7 The muscular system: movement for the journey
8 The integumentary system: the protective covering
9 The nervous system: the body's control centre, part I
10 The nervous system: the body's control centre, part II
11 The special senses: the sights and sounds
12 The endocrine system: the body's other control system
13 The cardiovascular system: transport and supply
14 The lymphatic and immune systems: your defence systems
15 The respiratory system: it's a gas
16 The gastrointestinal system: fuel for the trip
17 The urinary system: filtration and fluid balance
18 The reproductive system: replacement and repair
19 The journey's end: now



Integrated Cardiopulmonary Pharmacology, 3/e
Bruce J. Colbert, *University of Pittsburgh, Johnstown*
Barbara J. Kennedy, *Idaho State University*
Luis Gonzalez

ISBN-10: 0132568721
ISBN-13: 9780132568722
384pp©2012 Paper

Basic Approach
For courses in Cardiopulmonary Pharmacology.

Integrated Cardiopulmonary Pharmacology, Third Edition, offers instructors and students an engaging, interactive

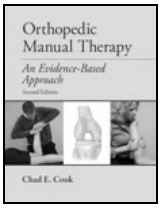
teaching and learning experience. The text's integrated approach includes perspectives from both pharmacists and respiratory therapists. In addition, pharmacology is linked to physiology and pathology to give students complete, cohesive coverage. Extensive clinical examples, special features, a continuously updated website, and "splashes" of light humor throughout the book help students learn the concepts and get the latest information on new drugs on the market.

Table of Contents

PART I: THE BASICS
1. General Pharmacologic Principles
2. The Metric System and Drug Dosage Calculations
3. Pharmacology of the Autonomic Nervous System
4. Medicated Aerosol Treatments

PART II: THE SPECIFIC DRUG CATEGORIES
5. Bronchodilators
6. Mucokinetics and Surfactants
7. Anti-Inflammatory and Antiasthmatic Agents
8. Anti-Infective Agents
9. Cardiac Agents
10. Blood Pressure and Antithrombotic Agents
11. Neuromuscular, Sedative, Anesthetic, and Analgesic Agents
12. Therapeutic Medical Gases

PART III: PUTTING IT ALL TOGETHER
13. Pharmacologic Management of Obstructive Pulmonary Disease: Asthma, Chronic Bronchitis, and Emphysema
14. Pharmacologic Treatment of Respiratory Infectious Disease
15. Medications for Advanced Cardiovascular Life Support



Orthopedic Manual Therapy, 2/e

Chad Cook, *Walsh University*

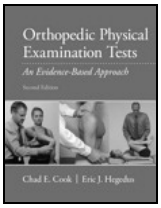
ISBN-10: 0138021732
ISBN-13: 9780138021733
552pp ©2012 Paper

Basic Approach
For all courses in orthopedic manual therapy.

This extensively updated text presents all modern foundations of orthopedic manual therapy, including patient management, clinical reasoning, reflective practice, and problem solving. Its comprehensive, regional approach to the body helps therapists synthesize new research, didactic knowledge, and clinical expertise. The text first systematically explains assessment, evaluation, treatment, and contraindications. Next, it offers in-depth insights into regional musculoskeletal conditions, supported by relevant anatomy, biomechanics, examination protocols, treatment techniques, and outcomes. Scientific research is analyzed to support the tests, techniques, and clinical reasoning presented. Hundreds of color images are provided, together with extensive scientific bibliographies. This edition's improvements include: new s on neurodynamics and soft tissue mobilization; more patient cases; greater focus on clinical decision-making; and new video procedures at www.myhealthprofessionskit.com.

Table of Contents

1. Orthopedic Manual Therapy
2. Orthopaedic Manual Therapy Assessment
3. Orthopedic Manual Therapy Clinical Assessment
4. Treatment and Re-Examination
5. Manual Therapy of the Cervical Spine
6. Manual Therapy of the Temporomandibular Joint
7. Manual Therapy of the Thoracic
8. Manual Therapy of the Shoulder Physical Examination
9. Manual Therapy of the Physical Examination
10. Manual Therapy of the Lumbar Patient History
11. Manual Therapy of the Sacroiliac
12. Manual Therapy of the Hip
13. Manual Therapy of the Knee
14. Manual Therapy of the Foot and Ankle
15. Neurodynamics
16. Soft-Tissue Mobilization



Orthopedic Physical Examination Tests: An Evidence-Based Approach, 2/e

Chad Cook, Walsh University
Eric Hegedus, High Point University

ISBN: 9780132544788

ISBN-10: 0132544784
ISBN-13: 9780132544788
560pp ©2013 Paper

Basic Approach

For courses in orthopedics, physical therapy, athletic training, and physical examination, in programs for healthcare providers including physicians, nurses, athletic trainers, physician's assistants, physical therapists, and occupational therapists.
This is the field's most comprehensive evidence-based guide to clinical tests for orthopedic physical examination. It presents complete explanations and photography visualizing all commonly used physical exam tests for all body regions, including both neurological screening tools and conventional tests. The quality of research supporting each test is assessed using the QUADAS quality instrument, which analyzes the extent to which bias may have influenced diagnostic values. Diagnostic values are reported wherever they exist, and summary "Utility" scores are provided for each test based on the authors' interpretation of the research and their use of the tests in clinical practice. This edition adds 200 new tests, presents valuable clusters of tests, and contains two entirely new s: one on visceral assessment and medical screening, and another on temporomandibular examination.

Table of Contents

1. Introduction to Diagnostic Accuracy
2. Physical Examination Tests for Neurological Testing and Screening
3. Physical Examination Tests for Visceral and Medical Screening
4. Physical Examination Tests for the Cervical Spine
5. Physical Examination Tests for the Temporomandibular Joint
6. Physical Examination Tests for the Shoulder Complex
7. Physical Examination Tests for the Elbow and Forearm
8. Physical Examination Tests for the Wrist and Hand
9. Physical Examination Tests for the Thoracic Spine
10. Physical Examination Tests for the Lumbar Spine
11. Physical Examination Tests for the Pelvis and Sacroiliac Joint
12. Physical Examination Tests for the Hip
13. Physical Examination Tests for the Knee
14. Physical Examination Tests for the Lower Leg, Ankle, and Foot

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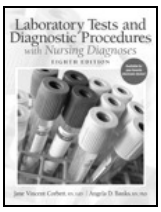


Laboratory Tests and Diagnostic Procedures with Nursing Diagnoses, 8/e

Jane V. Corbett, University of San Francisco
Angela Banks

ISBN: 9780132373326

ISBN-10: 0132373327
ISBN-13: 9780132373326
816pp ©2013 Paper

Basic Approach

For all undergraduate or graduate clinical and/or theory courses in nursing programs that cover laboratory testing and diagnostic procedures. Relevant theory courses may address physical assessment, medical-surgical nursing, adult health nursing, critical care nursing, pharmacology, pathophysiology, psychiatric nursing, and/or community nursing.
This is the complete nurse's guide to using data from today's laboratory tests and diagnostic procedures to formulate, organize, and plan high-quality nursing care. This edition has been extensively updated to reflect the latest standards of care and the shift towards evidence-based practice, and to illuminate links between the nursing process and testing even more effectively. It introduces dozens of new tests and procedures, and offers updated information on many more, including expanded uses for many proven tests. Several new genetic tests are covered, as well as many rapid tests now available for point-of-care testing by nurses.

Table of Contents

Part I. Laboratory Tests
1. Using Laboratory Data
2. Hematology Tests
3. Routine Urinalysis and Other Urine Tests
4. Renal Function Tests
5. Four Commonly Measured Electrolytes
6. Arterial Blood Gases and Related Tests
7. Three Less Commonly Measured Electrolytes and Vitamin D
8. Tests to Measure The Metabolism of Glucose and Other Sugars
9. Tests to Measure Lipid Metabolism and Other Cardiac Risk Factors
10. Tests Related to Serum Protein Levels, Tumor Markers, and Cancer Genomics
11. Tests to Measure The Metabolism of Bilirubin
12. Tests to Measure Enzymes and Cardiac Markers
13. Coagulation Tests and Tests to Detect Occult Blood
14. Serologic Tests, Immunohematology, Microbiology and Immunology

15. Endocrine Tests
16. Culture and Sensitivity Tests and Rapid Tests for Infections
17. Therapeutic Drug Monitoring and Toxicology Screens
18. Tests Performed in Pregnancy, The Newborn Period, and for Genetic Screening
Part II. Case Studies
19. Practice Interpretation Of Laboratory Data
Part III. Diagnostic Procedures
20. Diagnostic Radiologic Tests
21. Body Scans: CT, DXA, MRI, PET and SPECT
22. Nuclear Scans: Diagnostic Tests with Radionuclides or Radioisotopes
23. Diagnostic Ultrasonography
24. Common Noninvasive Diagnostic Tests
25. Common Invasive Tests
26. Stress Tests, Cardiac Catheterizations, Electrophysiologic Studies, and Syncope Tests
27. Endoscopic Procedures
28. Diagnostic Procedures Related to Childbearing Years
Appendix A. Reference Values for Newborns and Children Compared With Adult Values
Appendix B. Possible Alterations in Reference Values for The Aged
Appendix C. Altered Reference Values for Common Laboratory Tests in Normal Pregnancies
Appendix D. Units Of Measure
Appendix E. SI Conversion Factors
Appendix F Diagrams Of Laboratory Results

Principles and Foundations of Health Promotion and Education, 5/e

Randall R. Cottrell, *University of Cincinnati*
James T. Girvan, *Boise State University*
James F. McKenzie, *Ball State University*

ISBN-10: 0321734955
ISBN-13: 9780321734952
400pp ©2012 Paper

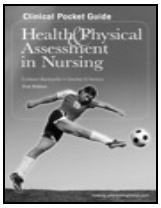
Basic Approach

The Fifth Edition of Principles and Foundations connects you to research, resources, and practitioners in health education/promotion while providing a solid foundation in the history, philosophy, theory, and ethics of health education.

This text continues to provide the best overall introduction to the growing profession of health education/promotion by covering the roles and responsibilities of health education specialists, the settings where health education specialists are employed, and the ethics of the profession. In addition to covering the history of health, health care, and health education/promotion, the book provides a preview of what the future may hold for health education specialists. The Fifth Edition includes new Practitioner's Perspective features and updates to all s, reflecting the most current thinking and practices in the field.

Table of Contents

1. A Background for the Profession
2. The History of Health and Health Education/Promotion
3. Philosophical Foundations
4. Theoretical Foundations
5. Ethics and Health Education/Promotion
6. The Health Education Specalisist: Roles, Responsibilities, Certifications, Advanced Study
7. The Settings for Health Education/Promotion
8. Agencies/Associations/Organizations Associated with Health Education/Promotion
9. The Literature of Health Education/Promotion
10. Future Trends in Health Education/Promotion



Clinical Pocket Guide for Health & Physical Assessment in Nursing, 2/e

Donita D'Amico
Colleen Barbarito

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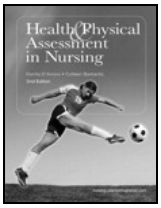

Health & Physical Assessment in Nursing, 2/e

Donita D'Amico
Colleen Barbarito

ISBN-10: 0135114152
ISBN-13: 9780135114155
1024pp ©2012 Cloth

Basic Approach

For beginning-level courses in baccalaureate and associate degree nursing programs that cover health assessment or physical assessment, such as Fundamentals of Nursing Practice and Introduction to Concepts of Nursing Practice; will also supplement courses in Medical-Surgical Nursing.

This up-to-date text will help beginning nursing students master essential physical and health assessment skills, and integrate those skills with critical thinking, nursing processes, age span development, culture, and health promotion. It systematically prepares students for success: readers first learn each technique; then demonstrate their skills; and finally, practice and test themselves. The authors begin with the goals of health assessment and other basic concepts. In the second half, organized by body systems, each reviews anatomy and physiology, teaches students how to conduct interviews, and walks through complete assessments. This edition's improvements include extensive new evidence-based practice resources; expanded coverage of obesity; and more student learning resources.

Table of Contents

1. Health Assessment
2. Wellness & Health Promotion
3. Health Assessment Across the Lifespan
4. Cultural Considerations
5. Psychosocial Assessment
6. Techniques & Equipment
7. General Survey
8. Pain Assessment
9. Nutritional Assessment
10. The Health History
11. Skin, Hair & Nails
12. Head, Neck & Related Lymphatics
13. Eye
14. Ears, Nose, Mouth & Throat
15. Respiratory System
16. Breasts and Axillae
17. Cardiovascular System
18. Peripheral Vascular System
19. Abdomen
20. Urinary System
21. Male Reproductive System
22. Female Reproductive System
23. Musculoskeletal System
24. Neurologic System
25. Assessment of Infants, Children & Adolescents
26. The Pregnant Female
27. Assessing the Older Adult
28. Putting it all Together
29. Assessment of the Hospitalized Client

Operating Room Skills: Fundamentals for the Surgical Technologist, 1/e

Nancy Dankanich, Northwestern University Medical School

ISBN-10: 0135093783
ISBN-13: 9780135093788
208pp ©2013 Paper

Basic Approach

For courses in Surgical Technologist Foundational Skills—First-Year Lab Skills; Refresher or Introductory Courses in Aseptic Technique for those in the OR—Allied Health Professionals; Hospital Training Programs.
Operating Room Skills: Fundamentals for the Surgical Technologist teaches students fundamental operating room guiding principles and techniques. Focusing on the essential skills needed, along with the rationale, to perform safely and competently in the operating room, this lab manual and accompanying DVD prepares students for the role of the surgical technologist in conjunction with the movement of the patient through the surgical procedure. Promoting active participation, this unique teaching and learning resource helps students develop critical thinking, peer teaching, and precise performance skills. Written primarily for new surgical technology students, this lab

manual and DVD package is useful to any student entering the unfamiliar OR environment.

Table of Contents

UNIT I: Surgery Preparation
1 Don Operating Room Attire
2 Perform Basic Hand Hygiene
3 Don and Doff Personal Protective Equipment
4 Open Sterile Supplies
5 Perform Surgical Hand Scrub
6 Gown and Glove Self, Closed-Gloving Method
7 Drape Mayo Stand, Prepare Back Table
8 Perform Counts: Prevent Retained Items
9 Prepare Medications and Solutions
10 Select Mayo Stand Instruments
11 Prepare Patient for OR Entry
12 Participate in Preanesthesia Skills
13 Facilitate Electrosurgery and Demonstrate Surgical Fire Awareness
14 Gown and Glove Another Team Member…
15 Perform Open Gloving Technique
16 Perform Urinary Catheterization and Skin Preparation
17 Apply Surgical Drapes
18 Perform Post-draping and Pre-incision Preparation…
Unit II: Surgery Fundamentals
19 Identify, Prepare, and Pass Instruments
20 Prepare, Load and Pass Suture for Right and Left-Handed Surgeons
21 Maintain Aseptic Technique
22 Prepare Dressings and Drains, and Facilitate Postanesthesia Care
Unit III: Essentials After Surgery
23 Dismantle Sterile Field and Disrobe
24 Facilitate Room Turn Over and Confidentiality
UNIT IV: Minimally Invasive Surgery
25 Facilitate Minimally Invasive Surgery: Laparoscopic and Robot-Assisted

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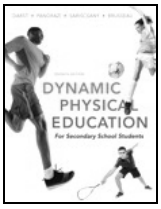


Dynamic Physical Education for Secondary School Students, 7/e

Paul W. Darst, *Arizona State University*
Robert P. Pangrazi, *Professor Emeritus, Arizona State University*
Mary Jo Sariscsany
Timothy Brusseau

ISBN-10: 0321722493
ISBN-13: 9780321722492
552pp ©2012 Cloth

Basic Approach

Dynamic Physical Education for Secondary School Students, Seventh Edition provides secondary school physical education pre-service teachers everything they need to create exciting and engaging PE programs. Using accessible, everyday language, authors Paul Darst, Robert Pangrazi, Mary Jo Sariscsany, and Timothy Brusseau cover foundational teaching elements as well as current issues in physical education. Updated to reflect important issues facing today's PE teachers, this new edition includes topics such as the effects of overweight on youth, teaching students with different ability ranges, and teaching culturally diverse students. Updated research, recommended readings, and a variety of study tools make this book a comprehensive resource for all teachers of physical education. When tied to the accompanying Lesson Plans book, the text becomes a comprehensive curriculum guide for pre-service and in-service teachers for grades 7-12. Enhancing the curriculum and instruction in secondary physical education, the text includes a wealth of both practical and theoretical resources and many motivating ideas, strategies, and tools.

With the addition of two new coauthors, Tim Brusseau and Mary Jo Sariscany, the new four member author team brings both highly experienced and fresh perspectives to the revision. Included in this edition are new Teaching Tips and Safety Hint features, and content on the expanding role of PE teachers outside the gym.

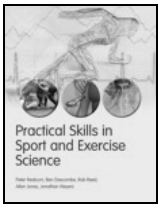
Table of Contents

Section 1: Justifying a Physical Education Program
1. Physical Education in the Secondary School
2. The Impact of Physical Activity on Adolescents
Section 2: Designing a Physical Education Program
3. Steps in Developing a Curriculum
4. Curriculum Approaches
Section 3: Teaching a Physical Education Program
5. Planning for Effective Instruction
6. Improving Instructional Effectiveness
7. Management and Discipline
8. Teaching Styles
9. Improving Instruction Systematically
10. Assessment, Evaluation, and Grading
Section 4: Developing a Total Program
11. Students with Disabilities

12. Safety and Liability
13. Activity Outside of the Physical Education Classroom: Intramurals, Sport Clubs, School Programs, and Athletics

Section 5: Implementing Instructional Activities

14. Introductory Activities
15. Promoting and Monitoring Lifestyle Physical Activity
16. Physical Fitness
17. Healthy Lifestyles: Activities for Instruction
18. Promoting Motivation, Cooperation and Inclusion: Nontraditional Ideas for Instruction
19. Sports
20. Lifestyle Activities
21. Outdoor Adventure Activities



Practical Skills in Sport and Exercise Science, 1/e

Ben Dascombe
Peter Reaburn
Rob Reed
Jonathan Weyers
Allan Jones

ISBN-10: 1408203774
ISBN-13: 9781408203774
432pp ©2012 Paper

Basic Approach

If you are studying exercise and sports science, or a related course, then this book will be an indispensable companion throughout your entire degree programme. This 'one-stop' text will guide you through the wide range of practical, analytical and data handling skills that you will need during your undergraduate and/or postgraduate studies. It will also give you a solid grounding in the wider transferable skills such as teamwork, using information technology, communicating information and study skills.

Practical Skills in Exercise and Sports Science provides an easy-to-read guide to help you develop the skills you need to succeed. It explains the essential elements of practical techniques and procedures in a step-by-step manner to help you understand their application in the context of exercise and sports science.

This text's unique and comprehensive coverage includes: general advice on practical work; measuring techniques; field tests; statistical techniques; analysis and presentation of data; and study skills.

Table of Contents

1. The importance of transferrable skills
2. Managing your time
3. Working with others
4. Taking notes from lectures and text
5. Learning and revising
6. Curriculum options, assessment and exams
7. Preparing your curriculum vitae
8. Finding and citing published information
9. Evaluating information
10. Using online resources
11. Using spreadsheets
12. Word processors, databases and other packages
13. Reporting and interpreting test results
14. General aspects of scientific writing
15. Writing essays and literature reviews
16. Organising a poster display
17. Giving a spoken presentation
18. The principles of measurement
19. Making valid and reliable measurements
20. SI units and their use
21. Scientific method and design of experiments
22. Conducting and writing up project work
23. Your approach to practical work
24. Health and safety
25. Working with body fluids
26. Preparing for fitness tests
27. Pre-exercise health screening procedures
28. Blood and urine collection and analysis
29. Measuring cardiac function
30. Testing pulmonary function
31. Measuring endurance exercise intensity
32. Measuring hydration status and body temperature
33. Measuring flexibility
34. Kinanthropometry
35. Measuring body composition
36. Measuring maximal aerobic capacity
37. Indirect measures of aerobic capacity
38. Measuring energy expenditure and physical activity
39. Measuring anaerobic power and capacity

40. Measuring muscle strength and endurance
41. Common field tests
42. Specific field tests
43. Measuring endurance training thresholds
44. Measuring economy of exercise
45. Monitoring training load
46. Manipulating and transforming raw data
47. Graphs
48. Presenting data in tables
49. Descriptive statistics
50. Choosing and using statistical tests
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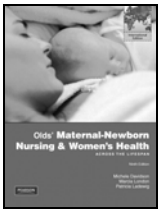


Olds' Maternal-Newborn Nursing & Women's Health Across the Lifespan, 9/e

Michele Davidson, *George Mason University*
Marcia L. London, *Beth-El College of Nursing and Sciences*
Patricia W. Ladewig, *Regis University*

ISBN-10: 0132719851
ISBN-13: 9780132719858
1272pp ©2012 Paper

Basic Approach
For courses in maternal-child nursing, care of women and children, and women's health, for both 4-year BSN-level courses and selected ADN-level (2-year) programs.

This is a family-focused text that provides comprehensive coverage of maternal-newborn nursing and women's health with special attention to evidence-based practice, cultural competence, critical thinking, professionalism, patient education, and home/community care. Accurate, readable, personal, and engaging, it reflects a deep understanding of pregnancy and birth as normal life processes, and of family members as partners in care. This edition includes a deeper discussion of childbirth at risk; four new nursing care plans; updated coverage of contraception, complementary/alternative therapies, and much more. New features include Professionalism in Practice and Health Promotion Education boxes, Clinical Judgment case studies, and Critical Thinking questions. This edition also pays special attention to aligning with the AACN's Essentials of Baccalaureate Education for Professional Nursing Practice.

Table of Contents

UNIT 1: Contemporary Maternal-Newborn Nursing
1. Current Issues in Maternal-Newborn Nursing
2. Care of the Family in a Culturally Diverse Society
3. Complementary and Alternative Therapies

UNIT 2: Women's Health
4. Health Promotion of Women Across the Lifespan
5. Women's Health: Family Planning
6. Women's Health: Commonly Occurring Infections
7. Women's Health Problems
8. Women's Care: Social Issues
9. Violence Against Women

UNIT 3: Human Reproduction
10. The Reproductive System
11. Conception and Fetal Development
12. Special Reproductive Concerns: Infertility and Genetics

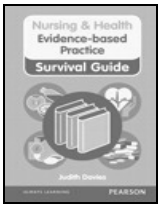
UNIT 4: Pregnancy
13. Preparation for Parenthood
14. Physical and Psychologic Changes of Pregnancy
15. Antepartum Nursing Assessment
16. The Expectant Family: Needs and Care
17. Adolescent Pregnancy
18. Maternal Nutrition
19. Pregnancy at Risk: Pregestational Problems
20. Pregnancy at Risk: Gestational Onset
21. Assessment of Fetal Well-Being

UNIT 5: Birth
22. Processes and Stages of Labor and Birth
23. Intrapartum Nursing Assessment
24. The Family in Childbirth: Needs and Care
25. Pain Management During Labor
26. Childbirth at Risk: Prelabor Complications
27. Childbirth at Risk: Labor-Related Complications
28. Birth-Related Procedures

UNIT 6: The Newborn

29. Physiologic Responses of the Newborn to Birth
30. Nursing Assessment of the Newborn
31. The Normal Newborn: Needs and Care
32. Newborn Nutrition
33. The Newborn at Risk: Conditions Present at Birth
34. The Newborn at Risk: Birth-Related Stressors

UNIT 7: Postpartum
35. Postpartum Family Adaptation and Nursing Assessment
36. The Postpartum Family: Needs and Care
37. Home Care of the Postpartum Family
38. Grief and Loss in the Childbearing Family
39. The Postpartum Family at Risk



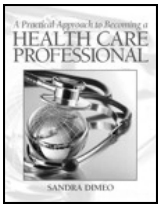
Nursing & Health Survival Guide: Evidence Based Practice, 1/e
Judith Davies

ISBN-10: 0273745557
ISBN-13: 9780273745556
76pp ©2012 Paper

Basic Approach
Ensuring an evidence-based approach in clinical practice is not always easy. This guide will act as a starting point and result in a greater understanding of the evidence-based cycle and will help students develop new insights into health care practice.
The guide can be used as a resource for student nurses and midwives studying on diploma or undergraduate programmes. It is fundamental that all students in future health care practice can:

- Formulate clinically credible questions
- Search for appropriate evidence
- Appraise the evidence for quality
- Apply the evidence in practice
- Evaluate the effectiveness of the evidence

Table of Contents
Introduction
Evidence-based Practice: What and Why?
What counts as evidence-based practice?
Hierarchies of Evidence
The Six steps in the evidence-based practice cycle
Step 1: Asking the Question.
Step 2: Finding the Evidence
Boolean Operators
Refining or keeping your search focused
Searching for evidence
Step 3: Appraising the Evidence
Critical Appraisal Skills Programme (CASP) - Making Sense of Evidence
Step 4: Interpreting the Evidence
Step 5: Acting on the Evidence
Step 6: Evaluation and Reflection
References



Practical Approach Becoming a Health Care Professional, A, 1/e
Sandra Dimeo

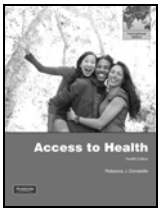
ISBN-10: 013506354X
ISBN-13: 9780135063545
120pp ©2012 Paper

Basic Approach
For courses in Introduction to Health Studies and Introductory Professional courses.

With a focus on professional involvement, this book shows all health care students how they can be more engaged in their profession. Taking a how-to approach, it clearly outlines the types of professional activities that develop one's professional identity and devotes a complete to life beyond college. Action-oriented assignments end each and address professional behaviors, professional organizations, workshops, seminars, conferences, community involvement and more!

Table of Contents
1. Students in Health Care Professional Programs
2. Membership in Professional Organizations

3. Attending Conferences, Workshops, Seminars & In-Services
4. Participation in Health Related Events
5. Make Your Thoughts and Opinions Known
6. Advocacy & Lobbying Efforts
7. Self Appraisal
8. Participation in Conferences, Workshops, & Seminars
9. Professional Activities as an Upper Classman
10. Beyond College



Access to Health, 12/e
Rebecca J. Donatelle, *Oregon State University*

ISBN-10: 0321710037
ISBN-13: 9780321710031
784pp ©2012 Paper

Basic Approach
The newly revised **Access to Health, Twelfth Edition** makes health more accessible—for students to learn, for instructors to teach, and for individuals to achieve.

Long known for its currency, research, and strength in behavior change, **Access to Health** provides just that: access to health information and the student's own health potential through a consistent framework for motivating students to make healthy life choices. In the Twelfth Edition, access to learning about personal health has been enhanced through the book's eye-popping design, imaginative art, unique Focus On mini-s, and robust media.

The Twelfth Edition offers superior access to teaching personal health with the inclusion of Focus On mini-s and their accompanying supplements, new assignable elements on MyHealthLab® and the Companion Website, and the comprehensive Teaching Tool Box.

With the goal of guiding students to improve their own health, the Twelfth Edition provides greater access to achieving optimal health through new features and supplemental materials. Behavior change coverage has been expanded in this edition with a completely re-written introductory focusing on the steps needed to change one's behavior, individually designed self-assessments, an enhanced Live It section on MyHealthLab and the Companion Website, and a new On the Go section of MyHealthLab and the Companion Website.

As a teacher, mentor, and researcher, Rebecca J. Donatelle knows the health issues that are important to today's students. Through her engaging and friendly writing style, Donatelle addresses students' concerns and teaches them to be savvy and critical consumers of health information. **Access to Health** provides hands-on practical tools that help students effect healthy changes in their lives.

Table of Contents

I. FINDING THE RIGHT BALANCE
1. Accessing Your Health
2. Promoting and Preserving Your Psychological Health
   Focus On: Cultivating Your Spiritual Health
3. Managing Stress and Coping with Life's Challenges
   Focus On: Improving Your Sleep

II. CREATING HEALTHY AND CARING RELATIONSHIPS
4. Building Healthy Relationships and Communicating Effectively
5. Understanding Your Sexuality
6. Considering Your Reproductive Choices

III. BUILDING HEALTHY LIFESTYLES
7. Eating for a Healthier You
8. Reaching and Maintaining a Healthy Weight
   Focus On: Enhancing Your Body Image
9. Improving Your Physical Fitness

IV. AVOIDING RISKS FROM HARMFUL HABITS
10. Recognizing and Avoiding Addiction
11. Drinking Alcohol Responsibly
12. Ending Tobacco Use
13. Avoiding Drug Misuse and Abuse

V. PREVENTING AND FIGHTING DISEASE
14. Protecting against Infectious Diseases and Sexually Transmitted Infections
   Focus On: Understanding Your Health Inheritance
15. Preventing Cardiovascular Disease
   Focus On: Minimizing Your Risk for Diabetes
16. Lowering Your Cancer Risk
17. Reducing Risks and Coping with Chronic Conditions

VI. FACING LIFE'S CHALLENGES

18. Choosing Conventional and Complementary Health Care
19. Preventing Violence and Abuse
    Focus On: Reducing Your Risk of Unintentional Injury
20. Preserving and Protecting Your Environment
21. Preparing for Aging, Death, and Dying

Health: The Basics, 10/e

Rebecca J. Donatelle, Oregon State University

ISBN-10: 0321814541
ISBN-13: 9780321814548
560pp ©2013 Paper

Basic Approach

Health starts here!
With an emphasis on media, the new **Health: The Basics, Tenth Edition** features robust relatable content, bringing health topics to life and keeping students hooked on learning and living well.
Now enhanced with an even more comprehensive package of easy-to-use media and supplements, this edition makes teaching and learning personal health extra dynamic. The **Tenth Edition** includes new ABC News videos, more online worksheets, new course management and eText options, Tweet Your Health, new student "behavior change video log (vlog)" videos, countless new teacher supplements, and more. These resources bring personal health to life in any form—in the classroom, online, or on the iPad. These tools all motivate students to be more interested in the book content and invest in their health.

Table of Contents

1. Accessing Your Health
2. Promoting and Preserving Your Psychological Health
Focus on: Cultivating Your Spiritual Health
3. Managing Stress and Coping with Life's Challenges
Focus on: Improving Your Sleep
4. Preventing Violence and Injury
5. Building Healthy Relationships and Understanding Sexuality
6. Considering Your Reproductive Choices
7. Recognizing and Avoiding Addiction and Drug Use
8. Drinking Alcohol Responsibly and Ending Tobacco Use
9. Eating for a Healthier You
10. Reaching and Maintaining a Healthy Weight
Focus On: Enhancing Your Body Image
11. Improving Your Personal Fitness
12. Reducing Your Risk of Cardiovascular Disease and Cancer
Focus on: Minimizing Your Risk for Diabetes
13. Protecting against Infectious and Noninfectious Diseases
14. Preparing for Aging, Death, and Dying
15. Promoting Environmental Health
16. Making Smart Health Care Choices
17. Understanding Complementary and Alternative Medicine

My Health: An Outcomes Approach, 1/e

Rebecca J. Donatelle, Oregon State University

ISBN-10: 032175123X
ISBN-13: 9780321751232
464pp ©2013 Paper

Basic Approach

When asked what their biggest challenges are for their course, students and instructors agree that there's too much to cover and not enough time. With **My Health: An Outcomes Approach,** we're giving instructors and students the tools they need to succeed.
For the student, the organization of the book into modules allows them to customize their study plan to fit their particular time constraints. Learning outcomes and "Check Yourself" review questions tied to these outcomes are part of each module, so students can learn the information and then test their understanding right away, getting immediate feedback on their progress. **My Health's** learning outcomes were developed and edited by instructors to ensure that they meet the course's needs nationwide.
For instructors, a briefer, concise, price-competitive text with a full supplements package allows them to focus on what students need to know without the jargon, making the personal health course more rewarding to students and helping them achieve the outcome of a healthier lifestyle.

Table of Contents

1. Healthy Change

2. Psychosocial Health
3. Stress
4. Relationships and Sexuality
5. Reproductive Choices
6. Addiction and Drug Abuse
7. Alcohol and Tobacco
8. Nutrition
9. Weight Management and Body Image
10. Fitness
11. CVD, Cancer, and Diabetes
12. Infectious Conditions
13. Violence and Unintentional Injuries
14. Environmental Health
15. Consumerism and Complementary and Alternative Medicine

Psychosocial Aspects of Healthcare, 3/e

Meredith E. Drench, *Adaptive Health Associates*
Ann Noonan, *Northeastern University*
Nancy Sharby, *Northeastern University*

ISBN-10: 0131392182
ISBN-13: 9780131392182
360pp ©2012 Paper

Basic Approach

For all courses that address psychosocial aspects of illness and disability, including courses in the social psychology of disability and rehabilitation, chronic illness, and rehabilitation psychology; and courses covering communication, relationships, characteristics of illness and disability, adaptation to impairment and disability, client behavior, grieving, stress and support, and attitudinal and cultural differences.

This timely text offers comprehensive, integrated coverage of psychosocial topics involving clients, families, and other caregivers affected by pathology, impairment, functional limitation, and/or disability. To engage students and promote insight, it relies on real-life student journal entries from multiple disciplines. A current, evidence-based, extensive literature review forms the core of the text, connecting theory to practice. Reflective Questions and Case Studies after each stimulate awareness and promote dialogue; relevant clinical examples and tables are presented throughout. This edition's updates include broader coverage of multicultural issues, spirituality, and chronic conditions; a new on abuse and neglect; thorough coverage of PTSD; improved organization; and a new Online Manual containing extensive readings and resources.

Table of Contents

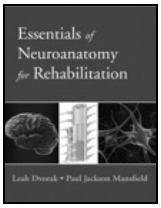
PART I. Knowing Self/Knowing Others
1. Foundations
2. Recognizing Attitudes, Beliefs, and Values
3. Multicultural Perspectives
4. Spirituality

PART II. Making Connections
5. Communication
6. Motivation, Adherence, and Collaborative Treatment Planning

PART III. Loss/Grief, Coping, and Family
7. Loss and Grief
8. Coping
9. Understanding Family Needs, Roles, and Responsibilities

PART IV. Transitions Across the Lifespan
10. Disability
11. Chronic Conditions
12. Sexuality

PART V. Conditions that Challenge Care
13. Psychiatric Disorders
14. Self-Destructive Behaviors
15. Abuse and Neglect



Essentials of Neuroanatomy for Rehabilitation, 1/e

Leah Dvorak
Paul Mansfield

ISBN-10: 0135023882
ISBN-13: 9780135023884
320pp ©2013 Paper

Basic Approach
For courses in neuroscience, neuroanatomy, and the treatment of neurological disease and injury in health care professional programs including: physical therapy and physical therapist assistant; occupational therapy and certified occupational therapist assistant; speech/language pathology, radiology, nursing, pharmacy, dentistry, and physician assistant programs.
This text makes the complex and beautiful human nervous system as clear, transparent and easy to understand as possible. It gives healthcare students a solid foundation in the human nervous system's structures, pathways, connections, and functions; and helps them apply this knowledge in treating and educating patients with neurological challenges. Clear, vivid, and concise, it avoids extraneous detail while illuminating the brain, spinal cord and peripheral nervous system with large, uncluttered art. Patient case studies and clinical boxes bring key concepts to life; questions associated with these discussions assess students' understanding and promote deeper insight. Organized to reflect the authors' many years of effective neuroanatomy teaching, the text includes full s on crucial topics such as movement, cognition and behavior, development and aging, and healing the brain.

Table of Contents

1. Introduction to Neuroanatomy
2. Regional Anatomy
3. Cell Structure and Function
4. Synapses
5. The Cerebral Cortex
6. The Diencephalon
7. The Brainstem and Cranial nerves
8. The Spinal Cord
9. The Peripheral Nervous System
10. The Autonomic Nervous System
11. Somatosensation
12. Special Sensory Systems
13. Movement
14. Cognition and Behavior
15. Development and Aging
16. Healing the Brain

EKG Plain and Simple, 3/e

Karen Ellis, *Touro Infirmary, New Orleans*

ISBN-10: 0132377292
ISBN-13: 9780132377294
400pp ©2012 Paper

Basic Approach
For all courses on reading electrocardiograms, in curricula that include EKG/cardiac tech, nursing, critical care, paramedic, medicine, respiratory therapy, and exercise physiology.

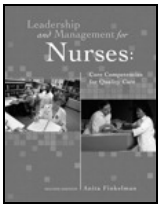
Unlike books that encourage rote memorization, this conversationally-written text puts the student at the patient's bedside, focusing not just on identifying rhythms or EKGs, but also on "Now what do I do for the patient?" Assuming no prior knowledge, it covers EKG from basic to advanced concepts. Part I progresses seamlessly from basic cardiac A&P through waves and complexes, lead morphology, and rhythms. Part II covers 12-lead interpretation, axis, hypertrophy, myocardial infarction, and more. The text presents many clinical scenarios, anecdotes, and critical thinking exercises, plus hundreds of practice rhythm strips and 12-lead EKGs. This edition adds new scenarios, notes, and tables; more medication information; and new coverage ranging from MI symptoms to hemiblocks.

Table of Contents
Introduction

PART I. THE BASICS
1. Coronary Anatomy and Physiology
2. Electrophysiology
3. Lead Morphology and Placement
4. Technical Aspects of the EKG
5. Calculating Heart Rate
6. How to Interpret a Rhythm Strip
7. Rhythms Originating in the Sinus Node
8. Rhythms Originating in the Atria
9. Rhythms Originating in the AV Junction
10. Rhythms Originating in the Ventricles

11. AV Blocks
12. Rhythm Practice Strips

PART II. ADVANCED CONCEPTS
13. How to Interpret a 12-Lead EKG
14. Myocardial Infarction
15. 12-Lead EKG Practice
16. Medications and Electrical Therapy
17. Diagnostic Electrocardiography
18. Putting It All Together: Critical Thinking Scenarios



Leadership and Management for Nurses, 2/e

Anita Finkelman, *Bouve College of Health Sciences, School of Nursing, Northeastern University*

ISBN-10: 0132627337
ISBN-13: 9780132627337
552pp ©2012 Paper

Basic Approach
For all courses in leadership or management in nursing.

This completely revised text offers a current perspective on leadership and management in nursing, and gives nurses a thorough understanding of what it takes to lead in delivering quality health care. The Second Edition reflects the Institute of Medicine's influential framework, emphasizing five core competencies: providing patient-centered care; working in interdisciplinary teams; employing evidence-based practice; applying quality improvement; and utilizing informatics. Updated throughout, it contains a new on evidence-based practice and management; expanded coverage of quality improvement; new Evidence for Effective Leadership and Management features; innovative "Application to Your Unit" features; coverage of healthcare reform; expanded activities and resources; improved and streamlined organization; an integrated and expanded glossary; and much more.

Table of Contents

SECTION I: BASIC LEADERSHIP AND MANAGEMENT CONCEPTS
1. Conceptual Base for Leadership and Management
2. Health Care Policy, Legal Issues, and Ethics in Health Care Delivery
3. Change and Decision Making
4. Organizational Structure for Effective Care
5. Health Care Financial Issues
6. Acute Care Organizations: An Example of a Health Care Organization
SECTION II: CORE COMPETENCIES
7. Managing Patient-Centered Care
8. Diversity and Disparities in Health Care
9. Recruitment and Retention: Meeting Staffing Requirements
10. Consumers and Nurses
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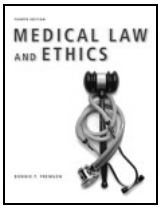
12. Improving Teamwork: Collaboration, Coordination, and Conflict Resolution
13. Effective Staff Communication and Working Relationships
14. Delegation for Effective Outcomes
15. Evidence-Based Practice and Management
16. Health Care Quality: A Critical Health Policy Issue
17. Implementing Health Care Quality Improvement
18. Technology and Health Care

Therapeutic Kinesiology, 1/e

Mary Ann Foster

ISBN-10: 0135077850
ISBN-13: 9780135077856
504pp ©2013 Paper



Medical Law and Ethics, 4/e

Bonnie F. Fremgen, *University of Notre Dame*

ISBN-10: 0132559226
ISBN-13: 9780132559225
400pp ©2012 Paper

Basic Approach
For all courses in medical law and/or ethics in programs for nurses, medical assistants, and all allied health care professions.

This is a complete, accessible, and up-to-date guide to the law and ethics of healthcare. Written for health professionals of all kinds — not lawyers — this text covers the full spectrum of topics that affect practice. Fully updated coverage includes: the legal system, professional liability and medical malpractice, physician's responsibilities, medical records, ethical and bioethical issues, and current regulations. Actual legal cases illuminate subjects ranging from patient confidentiality and abortion to death and dying. Exclusive Med Tips provide quick scenarios and guidance about law and ethics. Each contains glossary terms, exercises, and an actual case; appendices provide current sample codes of ethics.

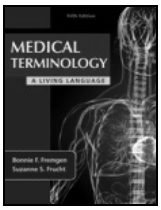
Table of Contents

1. Introduction to Medical Law, Ethics, and Bioethics

PART I. THE LEGAL ENVIRONMENT
2. The Legal System
3. Importance of the Legal System for the Physician and the Health Care Professional

PART II. THE HEALTHCARE ENVIRONMENT
4. Today's Health Care Environment
5. The Physician-Patient Relationship
6. Professional Liability and Medical Malpractice
7. Public Duties of the Physician and the Health Care Professional
8. Workplace Law and Ethics
9. The Medical Record
10. Patient Confidentiality and HIPAA

PART III. MEDICAL ETHICS
10. Ethical and Bioethical Issues in Medicine
11. Ethical Issues Relating to Life
12. Death and Dying



Medical Terminology: A Living Language, 5/e

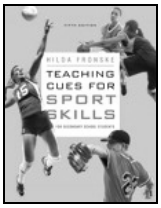
Bonnie F. Fremgen, *University of Notre Dame*
Suzanne S. Frucht, *Northwest Missouri State University*

ISBN-10: 0132843471
ISBN-13: 9780132843478
648pp ©2013 Paper

Basic Approach
For all one-semester courses in medical terminology in any institution.
Using a consistent, logical, and step-by-step approach, this book introduces students to the anatomy and physiology of body systems and the corresponding medical terms related to them. For each body system, broad coverage of anatomy, physiology, pathology, diagnostic procedures, treatment procedures, and pharmacology is provided. The author emphasizes both terms built from Latin and Greek word parts, and modern English terms, helping students develop a full working word part vocabulary they can use to interpret any new term. This edition contains many new terms, and has been reorganized for more efficient learning. To eliminate confusion, Word Building tables have been removed from each and the terms have been distributed throughout the pathology, diagnostic procedure, and treatment procedure tables, where they are more immediately relevant to students.

Table of Contents

1. Introduction to Medical Terminology
2. Body Organization
3. Integumentary System
4. Musculoskeletal System
5. Cardiovascular System
6. Blood and the Lymphatic and Immune Systems
7. Respiratory System
8. Digestive System
9. Urinary System
10. Reproductive System
11. Endocrine System
12. Nervous System
13. Special Senses: The Eye and Ear
14. Special Topics



Teaching Cues for Sport Skills for Secondary School Students, 5/e

Hilda A. Fronske, *Utah State University*

ISBN-10: 0321734939
ISBN-13: 9780321734938
464pp ©2012 Paper

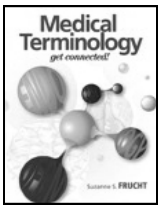
Basic Approach

Teaching Cues for Sport Skills for Secondary School Students, Fifth Edition, helps teachers learn how to correctly and effectively demonstrate sports skills so that students will remember the skills. This unique and exciting user-friendly text provides students with memorable teaching cues—short, catchy phrases that call the learner's attention to key components of a skill—for nearly 30 sports and fitness activities.

The book's "back to basics approach" makes for the most complete and comprehensive edition yet. A brand new core focuses on basic skills and techniques. Rules of Play and Safety sections are included for virtually every sport, and the popular Cues Tables are the most comprehensive yet (making the Whys and Common Errors available for every skill).

Table of Contents

1. Teaching Physical Education Is Fun with the Right Tools
2. The Foundation of Sport Skills
3. Aerobic Kickboxing
4. Archery
5. Badminton
6. Baseball
7. Basketball
8. Bowling
9. Cycling–Mountain Biking
10. Cycling–Road Biking
11. Field Hockey
12. Fitness Equipment Work-out
13. Floor Hockey
14. Football
15. Golf
16. Lacrosse
17. Pickle-Ball
18. Racquetball
19. Recreational Walking, Running, and Hiking
20. Soccer
21. Softball, Fast-Pitch and Slow-Pitch
22. Strength Training with Free Weights
23. Swimming and Water Polo
24. Team Handball and Indoor Hybrid Ball
25. Tennis
26. Touch Rugby
27. Track and Field Events
28. Ultimate Frisbee
29. Volleyball
30. The Practice of Yoga and Pilates Exercises



Medical Terminology: Get Connected!, 1/e

Suzanne S. Frucht, *Northwest Missouri State University*

ISBN-10: 013112112X
ISBN-13: 9780131121126
464pp ©2012 Paper

Basic Approach

For all courses in medical.

This is a true introductory-level "essentials" text focusing solely on medical terminology, and on teaching students how to build and translate medical terms with confidence. Designed to be fun, accessible, and eye-catching, its powerful approach guides students step-by-step through mastering relevant word parts, understanding word roots, and word assembly. To help students learn meanings, correct spelling, pronunciation, and other components of each term, the book contains numerous exercises, tips, and colorful figures for learning and practice. It is flexible enough to be used either in support of lectures, or as an independent student workbook.

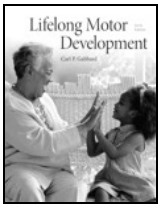
MEDICAL TERMINOLOGY: GET CONNECTED!, 1/e encourages students to "get connected" to an engaging multimedia experience on www.myhealthprofessionskit.com, We have done all the work for you! Students log onto Medical Terminology Interative, create their avatar and they are ready to begin!

Table of Contents

SECTION I. BASIC WORD BUILDING
1. Introduction to Medical Terminology
2. Suffixes
3. Prefixes
4. Anatomical Terminology

SECTION II. MEDICAL SPECIALTIES
5. Dermatology: Integumentary System
6. Orthopedics: Musculoskeletal System
7. Cardiology: Cardiovascular System
8. Hematology: Blood
9. Immunology: Immune Systems
10. Pulmonology: Respiratory System
11. Gastroenterology: Digestive System
12. Urology and Nephrology: Urinary System and Male Reproductive System
13. Obstetrics and Gynecology: Female Reproductive System
14. Neurology: Nervous System
15. Endocrinology: Endocrine System
16. Ophthalmology: The Eye
17. Otorhinolaryngology: Ear, Nose, and Throat

SECTION III: APPENDICES



Lifelong Motor Development, 6/e
Carl P. Gabbard, *Texas A&M University*

ISBN-10: 0321734947
ISBN-13: 9780321734945
482pp ©2012 Cloth

Basic Approach
Lifelong Motor Development, Sixth Edition, is a comprehensive, science-based text covering background, theory, and research in the field of physical growth and motor behavior across the life span, as well as the practical application of these concepts. The **Sixth Edition** focuses on the concept that the study of motor development is the **study of change**. In order to truly understand the multicausal and complex nature of motor development, this book was created and continues with the goal of introducing students to not a single theoretical explanation, but the most prominent theories and views that underscore our understanding of change in motor development. This approach helps the Sixth Edition maintain its place as still the most scientific, contemporary, and applicable text of its kind.

Table of Contents

I. AN OVERVIEW OF LIFELONG HUMAN DEVELOPMENT
1. Introduction to the Developmental Perspective

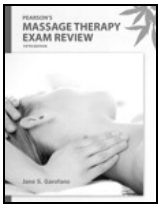
II. BIOLOGICAL GROWTH AND DEVELOPMENT
2. Heredity and Neurological Changes
3. Physical Growth Changes
4. Physiological Changes
5. Factors Affecting Growth and Development

III. PERCEPTION AND INFORMATION PROCESSING
6. Perceptual Development
7. Information Processing and Motor Control

IV. MOTOR BEHAVIOR ACROSS THE LIFE SPAN
8. Early Movement Behavior
9. Motor Behavior During Early Childhood
10. Motor Behavior During Later Childhood and Adolescence
11. Motor Behavior in the Adult Years

V. ASSESSING CHANGE
12. Assessment

VI. SOCIOCULTURAL INFLUENCES ON MOTOR DEVELOPMENT
13. Sociocultural Influences on Motor Development



Pearson's Massage Therapy Exam Review, 5/e

Jane S. Garofano, Owner/Director of the JSG School of Massage Therapy

ISBN-10: 0132741903
ISBN-13: 9780132741903
384pp ©2013 Paper

Basic Approach

For massage therapy programs and students in states that accept or require a national qualifying exam for certification or licensure; including NCETMB, NCETM, MBLEx, or the "new" advanced NCAP exam; for other massage therapy courses that cover similar material; and potentially for anatomy and physiology review in other health care programs.

Table of Contents

PART I: Anatomy, Physiology, and Kinesiology
1. Medical Terminology
2. Organization of Body, Definitions, and Cytology
3. Integumentary System
4. Skeletal System
5. Muscular System / Kinesiology
6. Cardiovascular System
7. Lymphatic System
8. Respiratory System
9. Nervous System
10. Urinary System
11. Digestive System
12. Endocrine System
13. Reproductive System
14. 300 Questions with Answers and Rationales; Anatomy, Physiology and Kinesiology

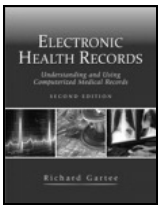
PART II: Pathology and Pharmacology
15. General Pathology
16. Pathology of Systems
17. Basic Pharmacology
18. 200 Questions with Answers and Rationales; Pathology and Pharmacology

PART III: History, Therapeutic Massage, and Bodywork Assessment
19. History
20. Massage and Bodywork Assessment
21. Indications, Benefits and Contraindications of Massage

PART IV: Therapeutic Massage and Bodywork Application
22. Massage Application: Basic Principles
23. Massage Application: Methods and Techniques
24. CPR and First Aid
25. Hydrotherapy and Aromatherapy
26. 300 Questions with Answers and Rationales Therapeutic Massage Assessment/Application
27. Eastern Energy Bodywork
28. Western Energy Bodywork
29. Modalities Eastern and Western
30. 100 Questions with Answers and Rationales; Energy Bodywork

PART V: Ethics, Professional Standards, and Business and Legal Practices
31. Ethics of Massage and Bodywork / Standards of Practice and Professionalism
32. Business and Legal Practices
33. 100 Questions with Answers and Rationales; Ethics, Standards, Business and Legal

PART VI: Comprehensive Simulated Exams and Answer Keys
34. Simulated NCETMB Exam
35. Simulated NCETM Exam
46. Simulated MBLEx Exam



Electronic Health Records: Understanding and Using Computerized Medical Records, 2/e

Richard Gartee

ISBN-10: 0132499762
ISBN-13: 9780132499767
576pp ©2012 Paper

Basic Approach

For use in courses that cover EHRs in Medical Assisting, undergraduate RN and LVN nursing programs, and as an adjunct to other allied professional curriculums (including RT, PT, and OT. Also valuable for continuing education courses covering EHR.

This is the complete "learn by doing" text for everyone who must use an electronic health records system, including doctors, nurses, medical assistants, physician assistants, and other medical office staff. It provides a thorough understanding of EHR tasks and functional benefits that is continuously reinforced by actual EHR

experiences. Updated to reflect the latest EHR rules, regulations, and innovations, this new edition also contains 50% more hands-on guided and critical thinking exercises utilizing real EHR software. Improvements also include a full on electronic orders and results; new workflow examples; shorter s that more easily accommodate 12-week courses; and a revised, clarified discussion of E&M billing codes.

Visit this demo link to learn more about this product and how to use it:
http://www.pearsonhighered.com/garteedemo/

Table of Contents

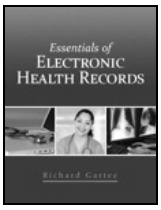
1. Electronic Health Records–An Overview
2. Functional EHR Systems
3. Learning Medical Record Software
4. Increased Familiarity with the Software
5. Data Entry At The Point of Care
6. Understanding Electronic Orders

Comprehensive Evaluation s 1 through 6

7. Problem Lists, Results Management, and Trending
8. Data Entry Using Flow Sheets and Anatomical Drawings
9. Using the EHR to Improve Patient Health
10. Privacy and Security of Health Records
11. Using the Internet to Expedite Patient Care
12. EHR Coding and Reimbursement

Comprehensive Evaluation s 7 through 12

Glossary



Essentials of Electronic Health Records, 1/e

Richard Gartee

ISBN-10: 0137085257
ISBN-13: 9780137085255
264pp ©2012 Paper

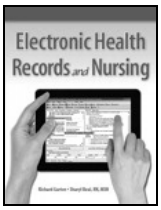
Basic Approach

This is a concise "learn by doing" text for everyone who must use an electronic health records system, including medical assistants, and other medical office staff. It provides a basic understanding of EHR tasks and functional benefits that is continuously reinforced by actual EHR experiences. Reflecting the latest EHR rules, regulations, and innovations, it contains over 40 hands-on guided and critical thinking exercises utilizing actual EHR software. This "essentials" guide focuses on core tasks, including using search and prompt, lists, forms, coding, and reimbursements. It concludes with a comprehensive student evaluation comprising a written exam and hands-on critical thinking exercises using both EHR software and the Internet.

Visit this demo link to learn more about this product and how to use it:
http://www.pearsonhighered.com/garteedemo/

Table of Contents

1. Electronic Health Records–An Overview
2. Functional EHR Systems
3. Learning Medical Record Software
4. Increased Familiarity with the Software
5. Learning to Use Search and Prompt
6. Learning to Use Lists
7. Entering EHR Data Using Forms
8. EHR Coding and Reimbursement
9. Comprehensive Evaluation



Electronic Health Records and Nursing, 1/e

Richard Gartee
Sharyl Beal

ISBN-10: 0131383728
ISBN-13: 9780131383722
552pp ©2012 Paper

Basic Approach

This is the complete "learn by doing" text for every nurse and nursing student who must use an electronic health

records system. In support of federal mandates and the profession's commitment to transition to EHR systems, this book thoroughly explains both EHR tasks and functional benefits, integrating EHR history, theory, and benefits with hands-on opportunities to experience actual EHR environments. Reflecting current EHR rules, regulations, and innovations, it contains comprehensive guided and critical thinking exercises utilizing actual EHR software, standardized EHR nomenclature, and the Nursing Process. To gain a firm foundation of understanding, students apply EHR in inpatient and outpatient nursing, home care, nursing home, pediatric, hypertension clinic, and other practice settings. This text also contains a full on electronic nursing care plans.

Visit this demo link to learn more about the companion software for this product and how to use it. Click here to view demo.

Table of Contents

1. Electronic Health Records–An Overview
2. Functional EHR Systems
3. Learning Medical Record Software
4. Increased Familiarity with the Software
5. Data Entry At The Point of Care
6. Electronic Nursing Care Plans
7. Understanding Electronic Orders
8. Problem Lists, Results Management, and Trending
9. Data Entry Using Flow Sheets and Anatomical Drawings
10. Subacute Care, Nursing Homes, and Home Care
11. Using the Internet to Expedite Care
12. Using the EHR for Prevention and Health Maintenance

Phlebotomy Simplified, 2/e

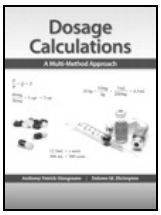
Diana Garza, *The University of Texas M.D. Anderson Cancer Center*
Kathleen Becan-McBride, *The University of Texas Health Science Center at Houston*

ISBN-10: 0132784327
ISBN-13: 9780132784320
384pp ©2013 Paper

Basic Approach
For introductory phlebotomy courses in programs for medical laboratory technicians, phlebotomists, medical assisting, nurse assistants, physician assistants, and other health professions that incorporate phlebotomy duties. Designed for beginning health care students and practitioners, *Phlebotomy Simplified, Second Edition* is an easy, step-by-step, practice-oriented approach to blood collection procedures for use in diverse settings, including hospitals, ambulatory clinics, home health care, and pediatric clinics. It brings together all the entry-level competencies healthcare workers need, including communication, clinical, technical, and safety skills.

Table of Contents

1. Phlebotomy Practice and Quality Assessment Basics
2. Ethical, Legal, and Regulatory Issues
3. Basic Medical Terminology, the Human Body, and the Cardiovascular System
4. Safety and Infection Control
5. Documentation, Specimen Handling, and Transportation
6. Blood Collection Equipment
7. Preexamination/Preanalytical Complications in Blood Collection
8. Venipuncture Procedures
9. Capillary Blood Specimens
10. Pediatric and Geriatric Procedures
11. Special Collections



Drug Dosage Calculations: A Multi-Method Approach, 1/e

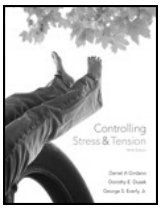
Anthony Giangrasso, *La Guardia Community College*
Dolores Shrimpton

ISBN-10: 0132158620
ISBN-13: 9780132158626
480pp ©2013 Paper

Basic Approach
For fundamentals of nursing, veterinary, or pharmacy courses covering dosage calculation.
This text introduces all three of today's leading methods of dosage calculation: Dimensional Analysis, Ratio & Proportion, and Formula. It walks step-by-step through solving dosage problems utilizing all three methods, often comparing multiple approaches to solving the same problem side-by-side. Instructors can choose their preferred method, and students can become expert with all three, ultimately choosing the approach they find most efficient.

Table of Contents

Unit 1. Basic Calculation Skills and Introduction to Medication Administration
1. Review of Arithmetic for Dosage Calculations
2. Safe and Accurate Drug Administration
3. Dimensional Analysis and Ratio & Proportion
Unit 2. Systems of Measurement
4. The Household and Metric Systems
5. Converting from One System of Measurement to Another
Unit 3. Oral and Parenteral Medications
6. Oral Medications
7. Syringes
8. Solutions
9. Parenteral Medications
Unit 4. Infusions and Pediatric Dosages
10. Flow Rates and Durations of Enteral and Intravenous Infusions
11. Flow Rates and Dosage Rates for Intravenous Medications
12. Pediatric Dosages



Controlling Stress and Tension, 9/e

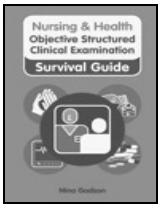
Daniel Girdano
Dorothy E. Dusek, Holistic Health Education Service
George S. Everly, Loyola College and Johns Hopkins University

ISBN-10: 0321788494
ISBN-13: 9780321788498
304pp ©2013 Paper

Basic Approach
Controlling Stress and Tension takes a multifaceted, holistic approach to stress management. The first part of the book discusses the stress problem and our potential for achieving solutions to it. The next s examine potential stress-producing elements in everyday life. The remainder of the book offers techniques for alleviating stress and tension. Personal journal activities and self-assessments placed throughout the book encourage students to apply the concepts they have learned to themselves. These activities are brought together at the conclusion of the book, helping students develop their own stress-management program. The Ninth Edition has a strengthened supplements package, updates to content to keep the text current, and more practical activities for students.

Table of Contents

1. Stress, Stressors and Stress Management
2. Systems That Control Stress Arousal
3. The Body's Response to Stress
4. The Human Spirit
5. Stressful Emotions, Thoughts, and Beliefs
6. Patterns of Behavior
7. Demands and Expectations
8. Stress and the Human Environment Interaction
9. Stress in Relationships
10. Psychological Trauma and Human Resilience
11. Stress in the Workplace
12. Breathing and Relaxation
13. Muscle Relaxation
14. Autogenics and Visual Imagery
15. Yoga and Stretch-Relaxation
16. Meditation
17. Stress Reduction through Physical Activity
18. Your Personal Stress Management Plan



Nursing and Health Survival Guide: Objective Structured Clinical Examination (OSCE), 1/e

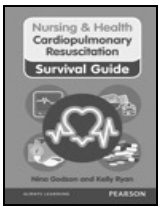
Nina Godson

ISBN-10: 0273738976
ISBN-13: 9780273738978
80pp ©2012 Paper

Basic Approach
Preparing for an Objective Structured Clinical Examination (OSCE) is very different from preparing for a theoretical knowledge examination, as clinical skills and performance are tested rather than just theory. It is important to fully understand how to achieve the best results in an OSCE, and this handy pocket-sized guide describes each clinical skill in turn and will help students to feel confident and prepared for the examination.

Table of Contents

What is an Objective Structured Clinical Examination?
Infection Prevention
Blood Pressure Measurement
Pulse and Respiration Measurement
Temperature Measurement Using a Tympanic Thermometer
Aseptic Technique
Elimination Needs: Stool Specimen
Elimination Needs: Urine Testing (Urinalysis)
Intramuscular Injection Technique
Administering Oral Fluids and Fluid Balance
Cardiopulmonary Resuscitation (CPR)
Oral Drug Administration
Useful Websites
Further Reading
Final Tips



Nursing & Health Survival Guide: Cardiopulmonary Resuscitation, 1/e
Nina Godson
Kelly Ryan

ISBN-10: 027374402X
ISBN-13: 9780273744023
50pp ©2012 Paper

Basic Approach
Do you need guidance and information on CPR? Do you need to understand the procedures and guidelines that govern the use of CPR? If you do, this pocket-sized reference guide provides you with all the information you need to conduct CPR safely and successfully.
All you need to know on:
- CPR guidelines and the law
- Patient assessment
- CPR procedures
- CPR for children and in pregnancy
- and much more!

Table of Contents

- Introduction
- Cardiovascular System- Anatomy and Physiology
- Basic life support (out of hospital)
- AED Algorithm
- Adult basic life support algorithm
- In Hospital Resuscitation
- In -Hospital Resuscitation Algorithm
- Adult Advanced Life Support Algorithm
- Do not attempt resuscitation
- Infection control/Handwashing
- Scenario 1- patient breathing/top to toe assessment
- Chocking adult treatment
- Scenario 2- dealing with more than one casualty
- Airway Obstruction Algorithm
- Airway Obstruction
- Recovery Position
- Recap Quiz
- Scenario 3 (patient not breathing) Community Scenario
- Scenario 4 (Patient shows no sign of life)
- Crash trolley
- Airway equipment
- Answers to Recap quiz
- Scenario 3 Answers
- Scenario 4 Answers
- References
- Useful websites

Comprehensive Exam Review for the Medical Assistant, 1/e
Robyn S. Gohsman

ISBN-10: 0135047404
ISBN-13: 9780135047408
504pp ©2012 Paper

Basic Approach

For students completing accredited medical assisting and/or medical administrative curricula; and for healthcare professionals in review courses leading to initial certification or recertification as a CMA (AAMA), RMA (AMT), or CMAS (AMT).

This is the clearest, most concise, most current review text for students preparing for the CMA, RMA, or CMAS exams, and for working medical assistants preparing to certify for the first time or recertify. It covers essential exam topics, presents valuable study hints, and explains what to expect on exam day. Designed for quick and easy use, it contains more tables and figures than any competitive title. It also contains nearly 800 practice questions presented in the format of the AAMA's and AMT's exams — including a complete 300-question "final exam." Rationales are provided for all correct answers.

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Section 1: Medical Assisting Profession
1. Learning Styles, Study Skills and Test Taking Strategies
2. Medical Terminology
3. Basic Anatomy, Physiology and Pathophysiology
4. Basic Pathophysiology of the Body Systems and Diagnostic Procedures and Treatments
5. Basic Nutrition

Section 2: Interoffice Relations and Effective Therapeutic Communications
6. Verbal, Nonverbal and Written Communications
7. Human Relations

Section 3: Medical Laws, Legal Issues and Ethical Considerations
8. Medical Law and Ethical Considerations
9. HIPAA

Section 4: Administrative Competencies and Skills
10. Administrative Functions
11. Electronic Technology
12. Best Practice Finances
13. Managed Care and Insurance
14. Diagnostic and Procedural Coding

Section 5: Clinical Competencies and Skills
15. Blood-borne Pathogens and Infection Control
16. Patient Preparation and Education
17. Exam Room Equipment, Examinations and Procedures
18. Diagnostic Testing
19. Laboratory Procedures
20. Medication and Pharmacology
21. Safety and Emergency Practices

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Primary Preventive Dentistry, 8/e

Norman Harris
Franklin Garcia-Godoy
Christine N. Nathe

ISBN-10: 0132845709
ISBN-13: 9780132845700
528pp ©2013 Paper

ISBN: 9780132845700

Basic Approach

For all introductory, clinical, and preventive courses in dental hygiene and dental assisting that cover preventive dental modalities and concepts.
Organized for consistency, coherence, and readability, this fully updated text covers all areas of prevention in dental care. It first describes dental diseases and conditions, helping students clearly understand the processes that can be prevented through the use of preventive modalities or ideas. Next, it presents detailed strategies to prevent these diseases and conditions. Throughout, specific target populations are defined and described based upon scientifically valid preventive strategies aimed at their needs.

Table of Contents

UNIT ONE: Primary Preventive Dental Concepts
1. Primary Preventive Dentistry: An Introduction
2. Cultural Health Influences
3. Dental Hygiene Science

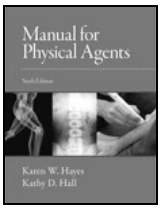
UNIT TWO: Etiology of Dental Diseases and Conditions
4. Dental Plaque
5. Carious Lesions
6. Periodontal Diseases
7. Oral Cancer
8. Dental Trauma
9. Host Defense Mechanisms in the Oral Cavity

UNIT THREE: Preventive Strategies

10. Toothbrushes and Toothbrushing Methods
11. Dentifrices, Mouthrinses and Chewing Gums
12. Self-Care Adjuncts
13. Denture and Implant Care
14. Community Water Fluoridation
15. Topical Fluoride Therapies
16. Dental Sealants
17. Nutrition
18. Sugar and Other Sweeteners
19. Health Education and Promotion Theories
20. Professional Dental Hygiene Care
21. Tobacco Cessation
22. Athletic Mouthguards
23. Technological Advances in Primary Dental Care

UNIT FOUR: Public Health and Target Populations

24. Pregnancy and Infancy
25. Pediatrics
26. Adult Dental Care
27. Geriatrics
28. Medically Compromised Populations
29. Populations with Developmental Disabilities



Manual for Physical Agents, 6/e

Karen W. Hayes, *Northwestern University Medical School*

ISBN-10: 0136072151
ISBN-13: 9780136072157
240pp ©2012 Spiral Bound

Basic Approach

For courses such as thermotherapy, hydrotherapy, electrotherapy, physical agents, or modalities, as part of education programs for physical therapists, physical therapist assistants, athletic trainers, clinics, and hospital physical therapy departments.

MANUAL FOR PHYSICAL AGENTS, 6/e is a core education resource for modern physical therapists, therapist assistants, and athletic trainers. It integrates concise summaries of the theoretical background and available evidence for each technique; step-by-step instructions presented generically, without brand names; and broad coverage of most current techniques. Designed for easy use, its lay-flat spiral binding remains open while students practice independently in laboratory sessions; concise tables provide fast access to essential information. This edition offers stronger focus on evidence-based practice; a new on evaluating new interventions; new study and discussion questions; and extensive new topic coverage: from controlled cold compression to electrical stimulation for tissue repair.

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SECTION 1 Physical Agents
1 Cryotherapy
2 Thermotherapy
3 Hydrotherapy
4 Pulsed Lavage with Concurrent Suction
5 Ultrasound
6 Pulsed Shortwave Therapy
7 Therapeutic Laser (Low-Level Laser Therapy)
8 Ultraviolet Radiation

SECTION 2 Mechanical Agents
9 Compression
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SECTION 3 Electrotherapeutic Agents
11 Transcutaneous Electrical Nerve Stimulation
12 Interferential Current
13 Electrical Stimulation for Motor Activity
14 Electromyographic Biofeedback
15 Electrical Stimulation for Tissue Repair
16 Iontophoresis

SECTION 4 Preparing for the Future
17 Evaluation of New or Nonstandard Interventions in Physical Therapy

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Medical Transcription: Fundamentals and Practice, 4/e
Health Professions Inst

ISBN-10: 0132988143
ISBN-13: 9780132988148
566pp ©2013 Paper

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Handbook of Informatics for Nurses & Healthcare Professionals, 5/e
Toni Lee Hebda, Chatham University
Patricia Czar, St. Francis Medical Center, School of Nursing
Theresa Calderone

ISBN-10: 0132959542
ISBN-13: 9780132959544
576pp ©2013 Paper

Basic Approach
For any course in informatics for nursing, including Introduction to Healthcare/Nursing Informatics; Needs Assessment and Strategic Planning for Information Technology; System Implementation, Evaluation, and Training; Informatics to Support Research and Evidence-Based Practice; Consumer Health Informatics; Electronic Health Records and Personal Health Records; Project Management for Health Information Technology Projects; and Telehealth.
HANDBOOK OF INFORMATICS FOR NURSES & HEALTHCARE PROFESSIONALS, 5/e is a complete and up-to-date overview of the key issues related to adoption and use of health information technology and nursing informatics, with detailed practical information to support students and professionals in the field. Intended to address all the concepts, skills, and tasks professionals need to achieve the nation's healthcare information technology goals, it contains three major sections: General Computer Information, Health Care Information Systems, and Specialty Applications.

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1. Informatics in Healthcare Professions
2. Hardware, Software
3. Ensuring Quality and Best Use of Information
4. The Internet and the World Wide Web: An Overview
5. Professional Use of Electronic Devices
6. Healthcare Information Systems
7. Strategic Planning for Information Technology Projects
8. Selecting a Healthcare Information System
9. Improving the Usability of Health Informatics Applications
10. System Implementation and Maintenance
11. Information Systems Training
12. Information Security and Confidentiality
13. System Integration and Interoperability
14. The Electronic Health Record
15. The Role of Standardized Terminology and Languages in Informatics
16. The Personal Health Record (PHR)
17. Health Information Exchanges (HIEs)
18. Health Information Technology and Policy
19. Legislation
20. Regulatory and Reimbursement Issues
21. Accreditation Issues for Information System Design and Use
22. Continuity Planning and Management (Disaster Recovery)
23. Technology, Informatics, and the Internet into Nursing Education
24. Consumer Education and Informatics
25. Telehealth
26. Public Health Informatics
27. Evidence Based Practice and Research

Get Fit, Stay Well!, 2/e
Janet Hopson, *San Francisco State University*
Rebecca J. Donatelle, *Oregon State University*
Tanya Littrell, *Portland Community College*

ISBN-10: 0321754336
ISBN-13: 9780321754332
512pp ©2013 Paper

Basic Approach
Get Fit, Stay Well! meets students where they are and gives them the targeted, personal guidance they need to get them where they want to be.

Already the most modern, student-centric, action-plan-oriented fitness & wellness textbook on the market, the Second Edition of Get Fit, Stay Well! takes its mission a step further by becoming the most personalized and proactive book on the market as well. The Second Edition maintains the highly praised hallmarks of the first edition–integrated case studies, three-pronged labs, a fresh graphical approach, and extensive strength training and flexibility photos and videos–and adds to them a coaching component in the form of progressive personal fitness plans, expanded exercise video options, and interactive media to get students started, keep them motivated, and take them to the next level in their own fitness & wellness. For instructors, the second edition provides more course management capability and expanded resources, offering even greater assistance in reaching students where they are and helping them bridge the gap between what they know and how they act.

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1. Changing Personal Behaviors for Optimal Wellness
2. Understanding Fitness Principles
3. Conditioning Your Cardiorespiratory System
4. Building Muscular Strength and Endurance
5. Maintaining Flexibility and Back Health
6. Understanding Body Composition
7. Improving Your Nutrition
8. Managing Your Weight
9. Managing Stress
10. Reducing Your Risk of Cardiovascular Disease
11. Reducing Your Risk of Diabetes and Other Chronic Diseases
12. Reducing Your Risk of Cancer
13. Avoiding Substance Use, Abuse, and Addiction
14. Reducing Your Risk of Sexually Transmitted Infections
15. Maintaining Lifelong Fitness and Wellness

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Get Fit, Stay Well! Brief Edition, 2/e

Janet Hopson, San Francisco State University
Rebecca J. Donatelle, Oregon State University
Tanya Littrell, Portland Community College

ISBN-10: 0321780361
ISBN-13: 9780321780362
416pp ©2013 Paper

Basic Approach
Get Fit, Stay Well! Brief Edition meets students where they are and gives them the targeted, personal guidance they need to get them where they want to be.

Already the most modern, student-centric, action-plan-oriented fitness & wellness textbook on the market, the Second Edition of Get Fit, Stay Well! Brief Edition takes its mission a step further by becoming the most personalized and proactive book on the market as well. The Second Edition maintains the highly praised hallmarks of the first edition–integrated case studies, three-pronged labs, a fresh graphical approach, and extensive strength training and flexibility photos and videos–and adds to them a coaching component in the form of progressive personal fitness plans, expanded exercise video options, and interactive media to get students started, keep them motivated, and take them to the next level in their own fitness & wellness.

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1. Changing Personal Behaviors for Optimal Wellness
2. Understanding Fitness Principles
3. Conditioning Your Cardiorespiratory System
4. Building Muscular Strength and Endurance
5. Maintaining Flexibility and Back Health
6. Understanding Body Composition
7. Improving Your Nutrition
8. Managing Your Weight
9. Managing Stress
10. Reducing Your Risk of Cardiovascular Disease

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Compounding: The Pharmacy Technician Series, 2/e

Mike Johnston

ISBN-10: 0138023085
ISBN-13: 9780138023089
250pp ©2013 Paper

Basic Approach
Used in the Pharmacy Technician Sequence and specifically the Compounding course at a two year and career college.
The Perfect Balance!!
The National Pharmacy Technician Association endorses this comprehensive series. It helps students achieve the

perfect balance of the complex skills and the professional demeanor necessary for the increasingly important role of a Pharmacy Technician.

Calculations for Pharmacy Technicians, 2/e
Mike Johnston
NPTA

ISBN-10: 0132897733
ISBN-13: 9780132897730
288pp ©2013 Paper

Basic Approach
Used in the Pharmacy Technician Sequence and specifically the Calculations course at a two year and career college.
The Perfect Balance!!
The National Pharmacy Technician Association endorses this comprehensive series. It helps students achieve the perfect balance of the complex skills and the professional demeanor necessary for the increasingly important role of a Pharmacy Technician. Books in the series can be used as a series or as stand-alones.

First Aid for Colleges and Universities, 10/e
Keith J. Karren, *Brigham Young University*
Brent Q. Hafen, *late of Brigham Young University*
Joseph J. Mistovich
Daniel J. Limmer, *Southern Maine Technical College*

ISBN-10: 0321732596
ISBN-13: 9780321732590
560pp ©2012 Paper

Basic Approach
First Aid for Colleges and Universities, Tenth Edition, is intended for students in a full-semester course, designed specifically for college-level courses in First Aid, and meets American Red Cross (ARC) and American Heart Association (AHA) guidelines. Course completion leads to First Aid/CPR certification from the ARC and AHA. In addition to preparing students to pass certification exams, it also contains more depth and detail than other available texts in the same market. In addition to comprehensive coverage of all first aid situations a responder is likely to encounter, this book provides self-tests, critical thinking exercises, and skill assessment checklists. The **Tenth Edition** features the new 2010 AHA and ARC CPR Guidelines, which affect many critical procedures in the entire field. In addition to being extremely current, the book also features a helpful end of summary highlighting both the ARC and AHA guidelines of that s/content. A fresh new design makes this book engaging to the reader, while easy to navigate. Illustrations and photos have also been selectively updated and refreshed throughout the book.

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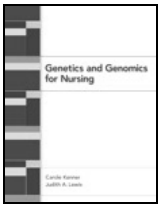
1. Introduction to First Aid Care
2. Anatomy and Physiology of Body Systems
3. Victim Assessment
4. Basic Life Support: Artificial Ventilation
5. Basic Life Support: Cardiopulmonary Resuscitation
6. Bleeding and Shock
7. Soft-Tissue Injuries
8. Injuries to the Face, Eye, and Throat
9. Injuries to the Chest, Abdomen, and Genitalia
10. Dressing and Bandaging
11. Musculoskeletal Injuries
12. Common Sport and Recreational Injuries
13. Head and Spine Injuries
14. Poisoning Emergencies
15. Drug and Alcohol Emergencies
16. Cardiovascular and Stroke Emergencies
17. Respiratory Emergencies
18. Diabetic Emergencies
19. Acute Abdominal Distress and Related Emergencies
20. Seizures, Dizziness, and Fainting
21. Childbirth and Related Emergencies
22. Pediatric and Geriatric Emergencies
23. Bites and Stings
24. Burn Emergencies
25. Heat and Cold Emergencies
26. Water Emergencies
27. Wilderness Emergencies
28. Psychological Emergencies and Disasters
29. Lifting and Moving Victims
30. Vehicle Stabilization and Victim Extrication



Genetics and Genomics for Nursing, 1/e

Carole A. Kenner
Judith A. Lewis

ISBN-10: 0132174073
ISBN-13: 9780132174077
600pp ©2013 Paper

ISBN: 9780132174077

Basic Approach

For all undergraduate nursing courses that cover genetics, genomics, and genetic medicine including courses in health assessment or maternal/pediatric nursing.

This book brings together the genetics and genomics knowledge nurses need to provide safe and effective care in today's "genomic era." It teaches through small, modular units, each with pretests, section quizzes, and post-tests. Answers are provided to help students check their knowledge, and Emerging Evidence and Critical Thinking checkpoints encourage them to apply it. The text first places modern genetics in context, introduces its essential principles, and outlines its deep ethical, legal, social, and public policy implications. Next, readers learn how to take family genetic histories and assess risks; utilize immunogenetics and cancer genetics in cancer prevention and treatment; apply genetics in public health promotion; recognize the role of genes in psychiatric illnesses and in aging; and much more.

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Part 1: Back to the Basics
Module 1. Genetics and Genomics: Definitions and Trends
Module 2. Essential Competencies in Genetics and Genomics
Module 3. Family Context of Clinical Genetics

Part 2: Basic Genetic Concepts
Module 4. Genes & Chromosomes; Meiosis and Mitosis
Module 5. Aneuploidy
Module 6. Mosiacism
Module 7. Mendelian Inheritance
Module 8. Genetics and Fetal Development

Part 3: Ethical, Legal, and Social Implications
Module 9. Ethical, Legal, & Social Implications of the Human Genome Project
Module 10. Prenatal Testing/Screening
Module 11. Newborn Screening and Genetic Testing: Ethical Considerations
Module 12. Genetic Information Nondiscrimination Act (GINA) Legislation

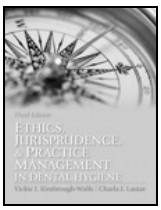
Part 4: Assessment
Module 13. Family History Tool
Module 14. Risk Assessment.

Part 5: Cancer Genetics
Module 15. Immunogenetics
Module 16. Cancer Genetics

Part 6: Public Health Genetics
Module 17. Impact of Environment on Health: Interaction with Genes
Module 18. Common Diseases with Genetic Linkages

Part 7: Psychiatric Disorders
Module 19. Bipolar Disease and Genetic Linkages.
Module 20. Depression and Genetic Linkages
Module 21. Addictive Behaviors and Genetic Linkages
Module 22. Autism

Part 8: Special Topics
Module 23. Pharmacogenomics
Module 24. Genetics and Aging



Ethics, Jurisprudence and Practice Management in Dental Hygiene, 3/e

Vickie Kimbrough
Charla Lautar, *Southern Illinois University*

ISBN-10: 0131394924
ISBN-13: 9780131394926
240pp ©2012 Paper

Basic Approach

For all courses in ethics or practice management in dental hygiene programs.

This is the definitive, up-to-date guide to ethics, jurisprudence, and practice management for all dental hygiene

students, new graduates, and licensed practitioners. The authors first introduce codes of ethics; discuss how ethical principles and moral values influence society, individual, and the profession; and cover crucial ethics-related topics such as informed consent. Next, they turn to practice management, showing how the dental practice must operate as a small business, and offering thorough career coverage. This edition's extensive updates include: dental therapists and other alternative workforce models; regulatory changes; opportunities in forensics; comparisons with practice in Canada; and much more. Extensive new resources are provided on the MyHealthProfessionsKit website.

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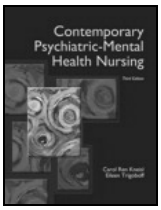
1. Introduction to Moral Philosophy and Moral Reasoning
2. Ethical Principles and Core Values
3. Informed Consent
4. Decision Making
5. Jurisprudence
6. Social Issues
7. Aspects of Practice Management
8. The Business of Dental Hygiene
9. Alternate Workforce Models: Future Trends for Oral Health Care
10. Seeking the Dental Hygiene Position
11. Planning for the Future and Career Longevity



Contemporary Psychiatric-Mental Health Nursing, 3/e

Carol Ren Kneisl, William Carey University, New Orleans, Louisiana
Eileen Trigoboff, State University of NY at Buffalo Department of Psychiatry and Buffalo Psychiatric Center

ISBN-10: 0132557770
ISBN-13: 9780132557771
960pp ©2013 Cloth

Basic Approach

For courses in psychiatric-mental health nursing in any nursing program.
CONTEMPORARY PSYCHIATRIC-MENTAL HEALTH NURSING, 3/e is the most up-to-date, evidence-based, culturally competent, authoritative, and comprehensive resource for psychiatric-mental health nursing. The authors emphasize the importance of empathy and client empowerment, while providing the knowledge and clinical competence that psychiatric-mental health nurses can use to help diverse clients heal on both psychobiologic and spiritual levels. They prepare students to tailor and humanize interventions for traditional as well as "new" psychiatric-mental health clients encountered in forensic settings, homeless shelters, and in other community and rehab settings. Since advances in neuroscience and genetics are redefining the scientific understanding of mental disorders, the authors offer a solid grounding in psychobiology, including brain imaging assessment and new psychopharmacologic treatment options. This edition adds a full on Recovery and Psychiatric Rehabilitation Strategies, and many new boxed features showing how psychiatric disorders are portrayed in the news and movies.

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1. Mental Health, Mental Disorder, and Psychiatric-Mental Health Clients: Who Are They?
2. Psychiatric-Mental Health Nurses: Who Are They?
3. Self-Awareness and the Psychiatric-Mental Health Nurse
4. The Therapeutic Nurse-Client Relationship

Unit II. Theoretical Basis for Psychiatric-Mental Health Nursing Practice
5. Theories for Interdisciplinary Care in Psychiatry
6. The Biologic Basis of Behavioral and Mental Disorders
7. The Science of Psychopharmacology
8. Stress, Anxiety, and Coping
9. Cultural Competence

Unit III. Psychiatric-Mental Health Nursing Processes
10. Therapeutic Communication
11. Psychiatric-Mental Health Assessment
12. Ethics, Clients' Rights, and Legal and Forensic Issues
13. Creating Hospital and Community-Based Therapeutic Environments

Unit IV. Clients with Mental Disorders
14. Cognitive Disorders
15. Substance-Related Disorders
16. Schizophrenia
17. Mood Disorders
18. Anxiety Disorders
19. Dissociative, Somatoform, and Factitious Disorders
20. Gender Identity and Sexual Disorders
21. Eating Disorders
22. Personality Disorders

Unit V. Vulnerable Populations
23. Clients at Risk for Suicide and Self-Destructive Behavior
24. Intrafamily Violence: Physical and Sexual Abuse
25. Children

26. Adolescents
27. Elders

Unit VI. Intervention Strategies

28. Therapeutic Groups
29. Family-Focused Interventions
30. Cognitive and Behavioral Interventions
31. Psychopharmacologic Nursing Interventions
32. Recovery and Psychiatric Rehabilitation Strategies
33. Complementary, Alternative, and Integrative Healing Practices
34. Crisis Intervention
35. Anger Management and Intervention in Psychiatric-Mental Health Settings

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Practical Research: Planning and Design, 10/e

Paul D. Leedy, Late of The American University
Jeanne Ellis Ormrod, University of Northern Colorado (Emerita)

ISBN-10: 0132899507
ISBN-13: 9780132899505
384pp ©2013 Paper

ISBN: 9780132899505

Basic Approach

For undergraduate or graduate courses that include planning, conducting, and evaluating research.
A "do-it-yourself, understand-it-yourself" manual designed to help students understand the fundamental structure of research and the methodical process that leads to valid, reliable results.
Written in uncommonly engaging and elegant prose, this text guides the reader, step-by-step, from the selection of a problem, through the process of conducting authentic research, to the preparation of a completed report, with practical suggestions based on a solid theoretical framework and sound pedagogy. Suitable as the core text in any introductory research course or even for self-instruction, this text will show students two things: 1) that quality research demands planning and design; and, 2) how their own research projects can be executed effectively and professionally.

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PART I: THE FUNDAMENTALS
1. The Nature and Tools of Research

PART II: FOCUSING YOUR RESEARCH EFFORTS
2. The problem: the Heart of the Research Process
3. Review of the Related Literature
4. Planning Your Research Project
5. Writing the Research Proposal

PART III: QUALITATIVE RESEARCH METHODOLOGIES
6. Qualitative Research
7. Historical Research

PART IV: QUANTITATIVE RESEARCH METHODOLOGIES
8. Descriptive Research
9. Experimental, Quasi-Experimental, and Ex Post Facto Designs
10. Mixed-Methods Research
11. Strategies for Analyzing Quantitative Data

PART V: PREPARING THE RESEARCH REPORT
12. Technical Details: Style, Format, and Organization of the Research Report

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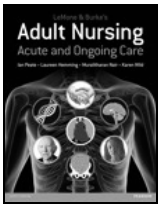

LeMone and Burke's Adult Nursing: Acute and Ongoing Care, 1/e

Priscilla LeMone
Ian Peate
Danny Nair
Laureen Hemmings
Karen Wild

ISBN-10: 0273719998
ISBN-13: 9780273719991
720pp ©2012 Paper

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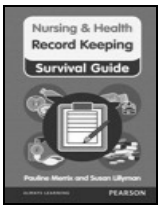
1. The role and function of the nurse in health and illness
2. Caring for people with cancer
3. Altered fluid, electrolyte, acid base balance and shock
4. Caring for people with altered immunity
5. Caring for people with altered skin function
6. Caring for people with endocrine problems
7. Caring for people with gastrointestinal problems
8. Caring for people with urinary elimination and kidney problems
9. Caring for people with cardiac problems
10. Caring for people with haematological problems

11. Caring for people with respiratory problems
12. Caring for people with musculoskeletal problems
13. Caring for people with neurological problems
14. Caring for people with eye and ear problems
15. Caring for women with reproductive problems
16. Caring for men with reproductive problems
17. Caring for people with sexually transmitted diseases



Nursing & Health Survival Guide: Record Keeping, 1/e

Susan Lillyman
Pauline Merrix

ISBN-10: 0273760645
ISBN-13: 9780273760641
50pp ©2012 Paper

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- INTRODUCTION
- RECORDS
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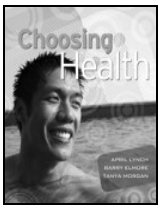
- ETHICS, ACCOUNTABILITY AND RECORD KEEPING
- MAINTAING YOUR SKILLS FOR RECORD KEEPING
- RELEVENT LEGISLATION
- OTHER RECORDS
- CONCLUSION



Choosing Health, 1/e

April Lynch
Barry Elmore, *East Carolina University*
Tanya Morgan, *West Chester University*

ISBN-10: 0321516184
ISBN-13: 9780321516183
464pp ©2012 Paper

Basic Approach
Choosing Health uses student stories, social-networking tools, and a wealth of online resources to speak to today's students better than any other personal health textbook. With its magazine-style design and inclusion of real student stories (both online and in the printed text), this text is the one that students can most relate to–and the one that will most inspire them to choose a healthy lifestyle.

Health-related stories from real college students are woven throughout the book, accompanied by videos of real students on the book's Companion Website. A "Health Online" feature points students to online podcasts, videos, and resources related to health topics, and encourages them to become a part of **Choosing Health's** lively online health community via Facebook, Twitter, and YouTube. The text also provides unique, practical tools to help students see the relevance of health education and make informed decisions about their lifestyle choices. An ultra-modern, magazine-style design encourages students to read, and the writing style is conversational and student-friendly without watering down content or academic rigor.

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1. Health in the 21st Century
2. Psychological Health
3. Stress Management
4. Nutrition and You
5. Physical Activity for Fitness and Health
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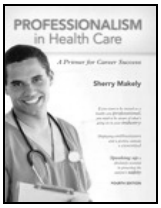
7. Drug Use and Abuse
8. Alcohol and Tobacco Use and Abuse
9. Relationships and Communication
10. Sexuality, Contraception, and Reproductive Choices
11. Preventing Infectious Diseases and Sexually Transmitted Infections
12. Preventing Cardiovascular Disease, Diabetes, and Cancer
13. Consumer Health
14. Personal Safety and Injury Prevention
15. Your Environment, Your Health
16. Aging Well



Professionalism in Health Care: A Primer for Career Success, 4/e

Sherry Makely, Clarian Health System

ISBN-10: 0132840103
ISBN-13: 9780132840101
256pp ©2013 Paper Package

Basic Approach
For courses covering professionalism in any nursing or health program offered in colleges or universities, vocational schools, hospitals, high schools, or through on-the-job training.

Now in full color, this engaging, conversational text helps students understand the common professional standards that all healthcare workers need to provide excellent care and service. It brings together complete coverage of these and other crucial "soft skills": work ethic, character, relationships, teamwork, communication and etiquette, honesty, cultural competence, personal image, personal health and wellness, and more. Revised and improved throughout, this edition gives students a clearer understanding of where they fit in the changing healthcare system, why patient satisfaction is more important than ever, how to behave with the professionalism that both employers and patients demand, and how to move forward in their own careers more rapidly. This edition also contains many new pedagogical features, including an extensive new website.

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1. The Health Care Industry and Your Role
2. Your Work Ethic and Performance
3. Personal Traits of the Health Care Professional
4. Relationships, Teamwork, and Communication Skills
5. Cultural Competence and Patient Care
6. Professionalism and Your Personal Life
7. The Practicum Experience
8. Employment, Leadership, and Career Development

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Medical Office Management, 1/e

Christine Malone, Everett Community College

ISBN-10: 0135060672
ISBN-13: 9780135060674
500pp ©2013 Paper Bound w/CD-ROM

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Planning, Implementing, & Evaluating Health Promotion Programs: A Primer, 6/e

James F. McKenzie, Ball State University
Brad L. Neiger, Brigham Young University
Rosemary Thackeray, Brigham Young University

ISBN-10: 0321799151
ISBN-13: 9780321799159
432pp ©2013 Paper

Basic Approach
Planning, Implementing, and Evaluating Health Promotion Programs: A Primer provides students with a comprehensive overview of the practical and theoretical skills needed to plan, implement, and evaluate health promotion programs in a variety of settings. The Sixth Edition features updated information throughout, significantly re-worked s 2 and 3 for a more streamlined presentation, a more robust supplements package, and more information on program management and administration. It has been thoroughly reviewed by both practitioners and professors to reflect the latest trends in the field.

"[Planning, Implementing, and Evaluating Health Promotion Programs: A Primer] provides a very clear and concise explanation on how to develop a Health Promotion Program. The book provides excellent examples and activities for application of Program Planning as well as ties in each step so the final process makes sense. I also like that the book prepares and encourages students to take the CHES exam as well as gives them the tools they need to be successful."
– Aimee Richardson, Adjunct Faculty, American University, Washington, DC

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1. Health Education, Health Promotion, Health Educators, and Program Planning
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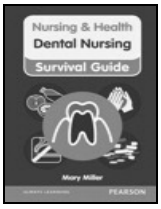
2. Starting the Planning Process
3. Models for Program Planning in Health Promotion
4. Assessing Needs

5. Measurement, Measures, Measurement Instruments and Sampling
6. Mission Statement, Goals, and Objectives
7. Theories and Models Commonly Used for Health Promotion Interventions
8. Interventions
9. Community Organizing and Community Building
Part Two: Implementing a Health Promotion Program
10. Identification and Allocation of Resources
11. Marketing: Making Sure Programs Respond to Wants and Needs of Consumers
12. Implementation: Strategies and Associated Concerns
Part Three: Evaluating a Health Promotion Program
13. Evaluation: An Overview
14. Evaluation Approaches and Designs
15. Data Analysis and Reporting



Nursing & Health Survival Guide: Dental Nursing, 1/e

Mary Miller

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ISBN-13: 9780273750192
64pp ©2012 Paper

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- INTRODUCTION
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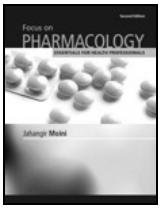
- FIRST AID AT WORK
- MEDICAL EMERGENCIES IN THE DENTAL SURGERY
- DENTAL ANATOMY
- DECIDUOUS AND PERMANENT TEETH
- DENTAL CHARTING
- BASIC PERIODONTAL EXAMINATION (BPE)
- RADIOGRAPHS
- PULP TESTING
- RUBBER DAM
- ORTHODONTIC CLASSIFICATION
- SALIVARY GLANDS
- THE NERVE SUPPLY TO THE TEETH AND GINGIVAE
- TYPES OF DENTAL INJECTIONS
- MUSCLES OF MASTICATION
- MUSCLES OF FACIAL EXPRESSION
- HAND PIECES
- BURS
- MANDRELS
- EXTRACTION FORCEPS
- ELEVATORS
- COUPLANDS CHISEL
- POST-OPERATIVE INSTRUCTIONS
- OTHER READING
- USEFUL CONTACTS



Focus on Pharmacology, 2/e

Jahangir Moini, Florida Metropolitan University

ISBN-10: 0132499665
ISBN-13: 9780132499668
720pp ©2013 Paper

Basic Approach

For pharmacology courses in any allied health program, including programs for medical assistants, pharmacy technicians, respiratory care technicians, surgical technicians, and physical therapy assistants. This text will also be valuable in LPN and associated degree-nursing programs.

This text's focused "teach-and-test" approach to learning pharmacology is designed specifically for allied health students. Early s lay the groundwork by introducing pharmacology's history, legal and ethical principles, drug administration techniques, essential math, and calculations. Following s focus on drugs specific to body systems, and each body system concisely reviewing anatomy and physiology, providing a foundation for understanding drug actions and uses. Pediatric and geriatric pharmacotherapies are then covered in detail, as are antibiotics and other drug categories. Updated throughout, this edition contains new s on medication errors and prevention, substance abuse, and drugs used to treat pregnant patients; as well as additional coverage of federal laws and

herbal supplements. Full-color photos, figures, and tables make this text exceptionally engaging and useful, and a CD-ROM provides many interactive study resources.

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1. Introduction to Pharmacology
2. Law and Ethics of Medications
3. Terminology, Abbreviations, and Dispensing Prescriptions
4. Administration of Medications
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Unit II. Mathematics and Dosage Calculations
5. Basic Mathematics
6. Measurement Systems and Their Equivalents
7. Adult and Pediatric Dosage Calculations
8. Medication Errors and Prevention
Checkpoint Review II
Unit III. Drug Effects on Multiple Systems
9. Nutritional Aspects of Pharmacology and Herbal Substances
10. Toxicology
11. Substance Abuse
12. Antibacterial and Antiviral Agents
13. Antifungal, Antimalarial, and Antiprotozoal Agents
14. Vaccines and Immune Globulins
15. Analgesic, Antipyretic, and Anti-Inflammatory Agents
16. Antineoplastic Agents
Checkpoint Review III
Unit IV. The Effect of Drugs on Specific Systems
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18. Drugs Used to Treat Autonomic Nervous System Conditions
19. Anesthetic Agents
20. Drugs Used to Treat Skin Conditions
21. Drugs Used to Treat Cardiovascular Conditions
22. Drugs Used to Treat Vascular Conditions
23. Anticoagulants
24. Drugs Used to Treat Fluid and Electrolyte Balances
25. Drugs Used to Treat Endocrine Conditions
26. Drugs Used to Treat Reproductive Conditions
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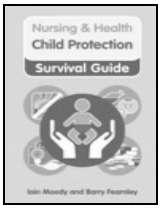
30. Drugs Used to Treat Eye Conditions
Unit V. Special Populations
31. Drugs Used to Treat Geriatric Patients
32. Drugs Used to Treat Pediatric Patients
33. Drugs Used to Treat Pregnant Patients



Nursing and Health Survival Guide: Child Protection: Safeguarding Children Against Abuse, 1/e

Iain Moody
Barry Fearnley

ISBN-10: 0273750712
ISBN-13: 9780273750710
50pp ©2012 Paper

Basic Approach
Ensuring the safeguarding of children is a highly important and challenging task for all professionals working in a healthcare environment. This pocket-sized guide will help you develop your understanding of the issues and enable you to identify and respond to difficult child protection concerns with confidence.
All you need to know on:

- Definitions of abuse
- Recognising safe guarding issues
- Families
- Risk
- Communication, observation and recording
- Domestic violence
- Grooming process

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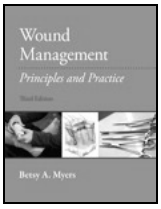
- What is Abuse and Neglect?
- Emotional Abuse
- Neglect

- Physical Abuse
- Sexual Abuse
- Families and Family Diversity
- How Do We Recognise When There Might Be Potential Safeguarding Issues?
- Communication
- The Importance of Observation
- Recording
- Domestic Violence
- What Do We Mean By Grooming?
- Child Protection Case Conferences
- Bibliography



Wound Management: Principles and Practices, 3/e

Betsy Myers, *St. John Health System, Tulsa, OK*

ISBN-10: 0131395246
ISBN-13: 9780131395244
504pp ©2012 Paper

Basic Approach
For physical therapy education programs covering wound management; and for clinicians (including PT, PTA, OT, and nursing) involved in treating patients with — or at risk for — open wounds or lymphedema.

This is the most complete, up-to-date wound management learning resource for clinicians and students. It first reviews the basic science of wound care, including normal tissue anatomy, wound healing, and factors that adversely affect healing. Next, it covers examinations and interventions for patients with open wounds, including holistic patient management. It then focuses on specific wound types, including arterial and venous insufficiency ulcers, pressure ulcers, neuropathic ulcers, and burns. Pedagogical tools include: key terms, objectives, tables, figures, photographs, checkpoint and review questions, extensive documentation practice, and detailed case studies. This edition is extensively updated for current research and practice, and adds new coverage of lymphedema and billing/documentation, as well as a new website containing many new learning resources.

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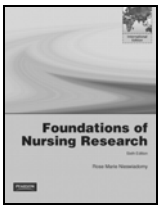
SECTION I. Basic Science
1. Integumentary Anatomy
2. Wound Healing
3. Factors Affecting Wound Healing

SECTION II. Wound Examination and Interventions
4. Examination of Patients with Open Wounds
5. Debridement
6. Management of Infection
7. Dressing Selection and Bandaging
8. Electrotherapeutic Modalities, Physical Agents, and Mechanical
9. Holistic Management of Patients with Wounds

SECTION III. Wound Types
10. Arterial Insufficiency Ulcers
11. Venous Insufficiency Ulcers
12. Pressure Ulcers
13. Neuropathic Ulcers
14. Burns
15. Lymphedema
16. Miscellaneous Wounds
17. Basic Dermatology



Foundations in Nursing Research, 6/e

Rose Marie Nieswiadomy

ISBN-10: 0132756234
ISBN-13: 9780132756235
352pp ©2012 Paper

Basic Approach
For use as a primary text in undergraduate nursing research courses, and as a resource text for more advanced nursing research courses.

This engaging, learner-friendly text illuminates all steps of the nursing research process, helping students critique research and determine whether study findings are ready to apply in practice. To illustrate specific aspects of the

research process, the author extensively excerpts from published studies, including research performed outside the U.S. Pedagogical features include outlines, objectives, definitions of key terms, summaries, class activities, and self-tests. *This Sixth Edition has been revised with up-to-date information and references throughout; more coverage of both quantitative and qualitative research; greater focus on evidence-based practice; and an all-new on nursing research and health care economics.*

Table of Contents

PART I INTRODUCTION TO NURSING RESEARCH
1. Development of Nursing Research
2. Ethical Issues in Nursing Research
3. An Overview of Quantitative Research
4. An Overview of Qualitative Research

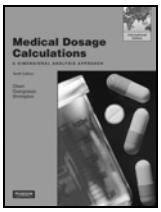
PART II PRELIMINARY STEPS IN THE RESEARCH PROCESS
5. Identifying Nursing Research Problems
6. Review of the Literature
7. Theory and Nursing Research
8. Hypotheses

PART III RESEARCH DESIGNS
9. Quantitative Research Designs
10. Qualitative Research Designs

PART IV OBTAINING STUDY PARTICIPANTS AND COLLECTION OF DATA
11. Populations and Samples
12. Measurement and Collection of Data
13. Data Collection Methods

PART V DATA ANALYSIS
14. Descriptive Statistics
15. Inferential Statistics.
16. Presentation and Discussion of Study Findings

PART VI RESEARCH FINDINGS AND NURSING PRACTICE
17. Communication and Utilization of Nursing Research
18. Evidence-Based Nursing Practice
19. Nursing Research and Health Care Economics
20. Critique of Research Reports



Medical Dosage Calculations: A Dimensional Analysis Approach, 10/e

June Olsen, *College of Staten Island*
Anthony Giangrasso, *La Guardia Community College*
Dolores Shrimpton

ISBN-10: 0132549417
ISBN-13: 9780132549417
400pp ©2012 Paper

Basic Approach
For courses in medical dosage calculation in departments of nursing, pharmacy, pre med, pre dental, and other health disciplines; and for courses covering dosage calculation in other programs, such as pediatrics and critical care.

Fully revised for current practices and medication, this Tenth Edition remains the field's most complete, user-friendly and accessible drug calculation text and workbook. Using the dimensional analysis format it pioneered, students begin with simple arithmetic, progressing to the most complex drug calculations. As they develop mathematical skills for accurate dosage calculations, they also gain a thorough professional understanding of safe drug administration. Compared with competitors, our text contains deeper, more realistic problems, incorporating actual dosages and requiring real critical thinking. Coverage includes titrations, IV push, VCC, and other complex calculations. Updates include: revised safety recommendations and insulin coverage; new equipment and labeling photos; and 0.5 mL and needleless syringes. Pedagogical aids include case studies, self-tests, and a website for student resources.

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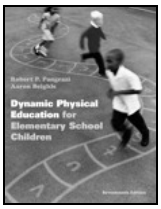
2. Safe and Accurate Drug Administration
3. Dimensional Analysis

Unit 2. Systems of Measurement
4. The Metric and Household Systems
5. Converting from One System of Measurement to Another

Unit 3. Oral and Parenteral Medications
6. Oral Medication Doses
7. Syringes

8. Preparation of Solutions
9. Parenteral Medications

Unit 4. Infusions and Pediatric Dosages
10. Flow Rates and Durations of External and Intravenous Infusions
11. Calculating Flow Rates for Intravenous Medications
12. Calculating Pediatric Dosages



Dynamic Physical Education for Elementary School Children with Curriculum Guide: Lesson Plans for Implementation, 17/e

Robert P. Pangrazi, *Professor Emeritus, Arizona State University*
Aaron Beighle, *University of Kentucky*

ISBN-10: 0321774361
ISBN-13: 9780321774361
768pp ©2013 Paper Package

Basic Approach
Used by over a half-million students, the best-selling Dynamic Physical Education for Elementary School Children offers the next generation of physical education teachers the best guide in step-by-step techniques for teaching physical education. This text covers everything from games and activities suitable for every developmental level to teaching strategies and guidelines for common classroom situations.
Whether instructors are starting a new program, restructuring an established one, or working with a team in an existing system, Dynamic Physical Education for Elementary School Children provides the best combination of theoretical framework and hands-on activities available. The Seventeenth Edition underscores the importance of lesson plans provided in the accompanying Curriculum Guide by calling them out in the text and including them with the main text at no additional charge, offering the best value to students forrunning a successful PE class from Day 1. Dynamic Physical Education for Elementary School Children provides solid suggestions for incorporating physical education elements into classroom spaces, highlights the importance of teaching toward every student, emphasizes the tie between academics and PE, and underscores the importance of lifetime physical activity.

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I. Instruction and Program Implementation
Section 1. Understanding the Need for Physical Education
1. Elementary School Physical Education
2. Understanding the Growth and Development of Children
Section 2. The Instructional Process
3. Preparing a Quality Lesson
4. Curriculum Development
5. Improving Instructional Effectiveness
6. Management and Discipline
7. Children with Disabilities
Section 3. Program Implementation
8. Evaluation
9. Legal Liability, Supervision, and Safety
10. Facilities, Equipment, and Supplies
11. Integrating Academic Concepts in Physical Education
12. Promoting and Monitoring Physical Activity
II. Teaching the Objectives of Physical Education
Section 4. Personal Health Skills
12. Promoting and Monitoring Physical Activity
13. Physical Fitness
14. Active and Healthy Schools
Section 5. Motor Skills
15. Movement Concepts and Themes
16. Fundamental Motor Skills and Introductory Activities
17. Manipulative Skills
18. Body Management Skills
Section 6. Specialized Motor Skills
19. Rhythmic Movement Skills
20. Gymnastic Skills
21. Cooperative Skills
22. Game Skills
Section 7. Lifetime Activities and Sport Skills
23. Lifetime Activities
24. Basketball
25. Football
26. Hockey
27. Soccer
28. Softball
29. Track, Field, and Cross-Country Running
30. Volleyball
Backmatter: Glossary, General Index, Activities Index, Photo Credits

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ICD-10-CM/PCS Coding: A Road Map, 1/e

Lorraine Papazian-Boyce

ISBN-10: 0132860368
ISBN-13: 9780132860369
576pp ©2013 Paper

No image available

Clinical Pocket Guide for LPN/LVN, 1/e

Jeffrey Pearson

ISBN-10: 0135093082
ISBN-13: 9780135093085
224pp©2013 Spiral Bound

Basic Approach

For all clinical nursing courses where the student is delivering direct patient care.
Clinical Pocket Guide for LPNs provides easy access to information students and novice practical/vocational nurses are most likely to need when delivering client care. With an emphasis on safety and patient-centered care, this pocket-sized, full-color guide is organized using tabs so readers can easily find the topic they need to reference. Whether it's performing a procedure, reviewing information needed for a complete assessment, or calculating correct medication dosages, students can find it quickly in this handy pocket guide.

Table of Contents

Tab 1: Assessment
Tab 2: Procedures
Tab 3: Emergency
Tab 4: Labs
Tab 5: Psychosocial
Tab 6: Medication
Tab 7: Cultural Considerations
Tab 8: End Matter

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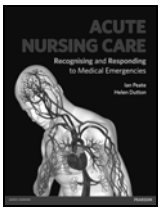
Clinical Pocket Guide for the RN, 1/e

Jeffrey Pearson

ISBN-10: 0135076390
ISBN-13: 9780135076392
256pp©2013 Spiral Bound



Acute Nursing Care: Recognising and Responding to Medical Emergencies, 1/e

Ian Peate
Helen Dutton

ISBN-10: 0273743716
ISBN-13: 9780273743712
352pp ©2012 Paper

Basic Approach

Delays in recognising deterioration or inappropriate management of people in acute care settings can result in late treatment, avoidable admissions to intensive care units and in some instances unnecessary deaths. As the role of the nurse in healthcare settings continues to change and evolve, today's student nurses need to be equipped with the fundamental skills to recognise and manage deterioration in the patient in a competent and confident manner, as they learn to become practitioners of the future.
Using a body systems approach and emphasising the central role and function of the nurse throughout, this book provides a comprehensive overview of the essential issues in this important subject. Topics covered include: recognition and identification of physiological deterioration in adults; identification of disordered physiology that may lead to a medical emergency linked to deterioration of normal function; relevant anatomy and physiology; pathophysiological changes and actions that need to be taken; immediate recognition and response; investigations, diagnosis and management issues; and teaching and preventative strategies.

Table of Contents

1 Assessment and recognition of emergencies in acute care
2 Vulnerability in the acutely ill patient
3 The cell and tissues

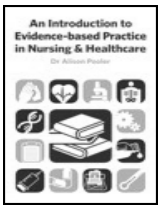
4 Body fluids and electrolytes
5 The patient with acute respiratory problems
6 The patient with acute cardiovascular problems
7 Recognition and management of cardiopulmonary arrest
8 The patient with acute renal problems
9 The patient with acute neurological problems
10 The patient with acute gastro intestinal problems
11 The patient with acute endocrine problems
12 The patient with altered immunity and sepsis
13 The safe transfer of acutely ill patients

Understanding the Essentials of Critical Care Nursing, 2/e

Kathleen Perrin
Carrie Ed MacLeod

ISBN-10: 0132724154
ISBN-13: 9780132724159
550pp ©2013 Cloth

Basic Approach
An introduction to critical care, this book is focused on elements that are essential for the novice critical care nurse to understand. Safe practice is a recurrent theme and essential safety initiatives are in highlighted boxes with specific issues related to the content in each chapter. Included are the purpose, the rationale, and highlighted recommendations, with a Media Link for more information. NANDA Nursing Diagnoses are also suggested for the disorders and diseases presented to help the reader categorize the nursing problems that may accompany the medical diagnoses.



An Introduction to Evidence-based Practice in Nursing & Healthcare, 1/e

Alison Pooler

ISBN-10: 0273722956
ISBN-13: 9780273722953
96pp ©2012 Paper

Basic Approach
The beginner's guide to Evidence-based Practice for Nursing, Health and Social Care.

An Introduction to Evidence-based Practice in Nursing & Health aims to help students, educators, mentors and professionals to make sense of knowledge derived from research and how to use it as a basis for making sound decisions about patient care. Covering everything from basic terminology to the application of Evidence-based Practice in your everyday routine, this text is the guide to better practice.

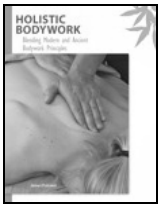
Written in a accessible and interactive style, *An Introduction to Evidence-based Practice in Nursing & Health* clearly sets out what Evidence-based Practice is, why it is important and how you can use it successfully to improve patient care.

Key Features for success in Evidence-based Practice:

- Simply and quickly shows you what Evidence-based Practice is and how you can use it.
- Helps you to develop an understanding of the policies driving Evidence-based Practice and professional development.
- Regular reinforcement of your learning through integrated Activities and end-of- self assessment.
- Extensive references and suggestions for further reading and online research.
- Integrated Glossary keeps you up-to-date with the latest jargon.

Table of Contents

1 What is Research?
2 What is Evidence and Evidence-Based Practice?
3 Why do we need an Evidence Base in our Clinical Practice?
4 Clinical Guidelines and the need for Clinical Audit.
5 Change Management in the Implementation of Evidence-Based Practice.



Holistic Bodywork, 1/e
James Pulciani

ISBN-10: 0135138957
ISBN-13: 9780135138953
448pp ©2012 Paper Bound w/CD-ROM

Basic Approach
For beginning to advanced courses in deep tissue therapy, neuromuscular therapy, myofascial therapy, and acupressure; and for holistic bodywork classes combining any of these approaches.

Holistic Bodywork provides a dynamic, integrative approach to understanding today's four most popular methods of bodywork: Deep Tissue Massage, Neuromuscular Therapy, Myofascial Therapy, and Acupressure. Each modality is explored in terms of both physiology and theory, with detailed descriptions of fundamental techniques. These descriptions, together with complete protocols for practical application, are accompanied by many images and diagrams. Written for students, practitioners and instructors at all levels, this text presents complex concepts in a simple format organized for maximum instructor flexibility. Step by step, students move from the absolute basics to advanced concepts, including tensegrity. Pedagogical features include objectives, terms, and summaries; quick quizzes and discussion questions; quick-reference tools and tables, and much more.

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Part I Getting Started
1-Preparation for bodywork

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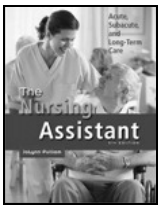
3–Introduction to deep tissue theory
4-The techniques of deep tissue massage
5-Sample routines for Deep Tissue Massage

Part III The Neuromuscular Approach
6–A study of nerves and related structures
7–Introduction to neuromuscular theory
8-The techniques of neuromuscular therapy
9-Sample routines for Neuromuscular Therapy

Part IV The Myofascial Approach
10–A study of fascia
11–Introduction to myofascial theory
12-The techniques of myofascial therapy
13-Sample routines for myofascial therapy

Part V The Acupressure Approach
14–A study of Qi and the Acupressure channels
15–Introduction to acupressure theory
16-The techniques of acupressure therapy
17-Sample routines for Acupressure therapy

Part VI The Holistic Approach
18–Putting it all together



Nursing Assistant, The: Acute, Subacute, and Long-Term Care, 5/e
JoLynn Pulliam

ISBN-10: 0132622556
ISBN-13: 9780132622554
448pp ©2012 Paper

Basic Approach
For all shorter nurse assistant courses, especially those covering acute care (hospital) and nursing homes (long term care) environments.

The Nursing Assistant, Fifth Edition is a concise, practical, affordable, and up-to-date guide to the skills today's nursing assistants need to master. It is designed both to serve as the basis of any nursing assistant training program, and to prepare students for careers in acute, subacute, or long-term care. It addresses the needs of the whole patient or resident, while promoting independence and self-care. Carefully organized to follow nursing process models, state curricula, and OBRA mandates, it walks through 75 step-by-step procedures reflecting the most common nursing assistant tasks. This edition is fully updated for the newest CDC and OSHA guidance for hand cleaning and infection control, and to reflect other relevant federal laws, including HIPAA.

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PART ONE: THE ROLE OF THE NURSING ASSISTANT
1. Introduction to Health Care
2. The Nursing Assistant
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PART TWO: SAFETY FOR THE PATIENT AND THE NURSING ASSISTANT
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6. Environmental Safety, Accident Prevention, and Disaster Plans
7. Emergency Situations

PART THREE: BASIC NURSING SKILLS
8. Body Systems and Common Diseases
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10. Positioning, Moving, and Ambulation
11. Admission, Transfer, and Discharge
12. The Patient's Environment
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14. Special Skin Care
15. Nutrition
16. Elimination Needs
17. Specimen Collection and Testing
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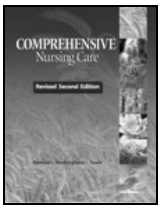
PART FIVE: SPECIALIZED CARE PROCEDURES
20. Additional Patient Care Procedures
21. Preoperative and Postoperative Care
22. Subacute Care
23. Special Skills in Long-Term Care
24. Death and Dying



Comprehensive Nursing Care, Revised Second Edition, 2/e

Roberta Pavy Ramont, *International Education Corporation*
Dee Niedringhaus, *North Orange County Regional Occupational Program*

ISBN-10: 0132560267
ISBN-13: 9780132560269
1968pp ©2012 Cloth

Basic Approach
For all courses in nursing care for LPNs or LVNs, including NCLEX-PN preparatory courses.

Comprehensive Nursing Care is an all-in-one learning resource which thoroughly addresses LPN/LVN practice, roles, and collaborative relationships. It covers the six core LPN/LVN curriculum areas: Fundamentals; Medical-Surgical/Adult Health; Maternal-Newborn; Pediatrics; Mental Health; and Leadership. Throughout, critical thinking situations and real-life client scenarios enable students to demonstrate knowledge, develop higher-level skills, and work well with RNs. Professionalism, a crucial focus of modern LPN/LVN education, is addressed throughout. Fully aligned with the NCLEX-PN® Test Plan, this revised edition contains updated coverage of healthcare delivery systems, cultural issues, safety, pandemics, electronic charting, psychosocial issues, *Healthy People 2020*, health promotion for older adults, continuous quality improvement, and much more.

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1. Succeeding as a Nursing Student — Updated
2. History of Nursing - Updated
3. Promoting Culturally Proficient Care - Updated
4. Legal and Ethical Issues of Nursing - Updated
5. Critical Thinking and Nursing Theories and Models - Updated
6. LPNs and LVNs and the Nursing Process - Updated

Unit II. Introduction to Clinical Practice
7. Healthcare Delivery Systems - Updated
8. Complementary and Alternative Medicine in Health Care - Updated
9. Safety - Updated
10. Infection Control and Asepsis - Updated
11. Admission, Transfer, and Discharge - Updated
12. Client Communication - Updated
13. Client Teaching - Updated
14. Documentation - Updated

Unit III. Promoting Psychosocial Health
15. Life Span, Health Promotion, and Family Systems - Updated
16. Psychosocial Issues - Updated
17. Loss, Grief, and Death - Updated

Unit IV. Promoting Physiological Health
18. Introduction to the Body — NEW!
19. Health Assessment and Head-to-Toe Data Collection - Updated
20. Hygiene - Updated
21. Vital Signs - Updated
22. Pain: the Fifth Vital Sign - Updated
23. Activity, Rest, Sleep, and Sensory Perception - Updated
24. Wound Care and Skin Integrity - Updated
25. Nutrition and Diet Therapy - Updated
26. Fluids, Electrolytes, and Acid-Base Balance - Updated
27. Medication Administration - Updated
28. IV Therapy - Updated

Part II. Adult and Gerontology Nursing
Unit V. Medical-Surgical Nursing Care
29. Nursing Care of Clients Having Surgery - Updated
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34. Clients with Hematopoietic and Lymphatic System Disorders
35. Clients with Immune System Disorders
36. Clients with Neurosensory System Disorders
37. Clients with Gastrointestinal System Disorders
38. Clients with Endocrine System Disorders
39. Clients with Urinary System Disorders
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43. Nursing Care of Ill Older Adults
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47. Emergency Room and Urgent Care Nursing - Updated
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53. Care of Women during Labor and Birth
54. Care of Postpartum Women
55. Care of High-Risk Postpartum Women
56. Care of Normal Neonates
57. Care of High-Risk Neonates

Part V. Pediatric and Adolescent Nursing
Unit X Pediatric and Adolescent Nursing Care
58. Pediatric-Focused Nursing Care
59. Care and Illnesses of Infants and Toddlers (1 Month to 36 Months)
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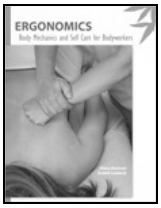
61. Care and Illnesses of School-Age Children (6-12 Years)
62. Care and Illnesses of Adolescents

Part VI. Transition from Student to Professional LPN or LVN
Unit XI. Transition from Student to Nurse
63. Leadership and Professional Development - Updated
64. Preparing to take the Licensure Exam - Updated
65. Finding That First Job - Updated



Ergonomics: Body Mechanics and Self Care for Bodyworkers, 1/e
Diane Redman
Ardath Lunbeck

ISBN-10: 0138024855
ISBN-13: 9780138024857
216pp ©2012 Paper

Basic Approach
For massage technique classes in multiple modalities, including Swedish, neuromuscular, Rolfing, and energy work; and for classes in kinesiology or ergonomics.

This comprehensive, engaging text helps students develop good ergonomic habits by assessing their biomechanics and gaining an internal awareness of their posture and movement patterns. It combines hands-on techniques for kinesthetic learners, aesthetically pleasing photography for visual learners, and reviews of anatomy and kinesiology that link scientific principles with personal body mechanics and self-care. It presents student-centered coverage of multiple self-care topics, including exercise, self-massage, relaxation techniques, and stress management, helping practitioners extend their careers and improve their health. Exclusive threaded worksheets enable students to build on what they've learned in previous s, performing tasks that reflect a holistic understanding of diverse ideas and techniques.

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6. Workplace Environment
7. Self-Care: Exercise
8. Self-Care: Self-Massage
9. Self-Care: Stress Buster

Medical Terminology: A Word Building Approach, 7/e
Jane Rice

ISBN-10: 0132148021
ISBN-13: 9780132148023
864pp ©2012 Paper

Basic Approach
For courses in medical terminology in any health-related or nursing program.

This comprehensive, proven text offers a logical, simple system for learning medical vocabulary primarily by building terms from word parts. It first introduces medical terminology and its essential suffixes and prefixes; then guides students logically through each key body system, working from the outside (integumentary system) inward, and from simple systems to complex. Additional specialty's cover oncology, radiology and nuclear medicine, and mental health. Updated throughout, this Seventh Edition's many new learning features include: "at-a-glance" A&P tables; tables of combining forms with meanings; color-coded word parts; new labeling exercises; and 17 new practical applications using realistic medical records.

MEDICAL TERMINOLOGY: A WORD BUILDING APPROACH, 7/e encourages students to "get connected" to an engaging multimedia experience on www.myhealthprofessionskit.com. We have done all the work for you! Students log onto **Medical Terminology Interative,** create their avatar and they are ready to begin! (access code needed)

Students will learn in a dynamic, virtual online environment that includes exercises, videos, animations, activities and more! Learning Modules provide core content for learning medical terminology. Users can access Medical Terminology Interactive, anytime, day or night, where they can study on their own and practice their word-building skills.

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10. Blood and Lymphatic System
11. Respiratory System
12. Urinary System
13. Endocrine System
14. Nervous System
15. Special Senses: The Ear
16. Special Senses: The Eye
17. Female Reproductive System with an Overview of Obstetrics
18. Male Reproductive System
19. Oncology

20. Radiology and Nuclear Medicine
21. Mental Health

No image available

Medical Coding: A Journey, 1 / e
Beth Rich

ISBN-10: 0132541777
ISBN-13: 9780132541770
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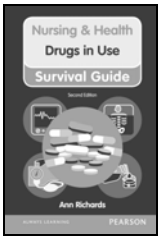

Nursing & Health Survival Guide Drugs in Use, 2 / e
Ann Richards

ISBN-10: 027376375X
ISBN-13:9780273763758
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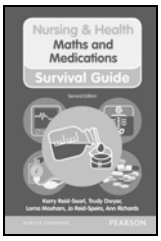
Table of Contents

- INTRODUCTION
- Some classes of drugs
- Common abbreviations used in drug administration
- SOME DEFINITIONS ROUTES OF DRUG ADMINISTRATION
- Drug absorption, distribution, metabolism and elimination
- Mechanisms of drug action – pharmacodynamics
- Drug receptors
- Some drugs affecting adrenergic transmission
- Drugs and the respiratory tract
- Steroids (glucocorticoids, corticosteroids)
- Cardiovascular drugs
- Drugs affecting cardiac contractility
- Antiarrhythmic drugs
- Lipid-lowering drugs
- NICE guidance to choice of drug treatment for newly diagnosed hypertension
- Prevention of CVD
- Chronic heart failure
- Antithrombotics
- Diuretics
- Urinary incontinence
- Gastrointestinal tract
- AntiEmetics
- Analgesics
- Drugs to treat diabetes mellitus
- Some antibacterial drugs
- The central nervous system
- ANTIDEPRESSANTS
- HYPNOTICS
- ANTIPSYCHOTIC DRUGS
- ADVERSE DRUG REACTIONS
- Adverse drug events
- Drug and food interactions
- Some differentiating features of drug overdose
- Common drug overdoses
- Useful websites



Nursing & Health Survival Guide Maths and Medications, 2 / e
Ann Richards
Kerry Reid-Searl
Trudy Dwyer
Lorna Moxham
Jo Reid-Speirs

ISBN-10: 0273764462
ISBN-13: 9780273764465
64pp ©2012 Paper

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- INTRODUCTION
- MATHS REVISITED
- some handy tables involving measurement
- formulas used in nursing
- applying drug calculations using formulas
- safe medication administration

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Clinical Immunology and Serology, 1/e
Kate Rittenhouse-Olson

ISBN-10: 0135104246
ISBN-13: 9780135104248
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Trigger Point Therapy, 1/e
Rick Robinette

ISBN-10: 0135041392
ISBN-13: 9780135041390
250pp ©2013 Paper Bound w/CD-ROM

Basic Approach
For courses covering trigger point therapy as part of programs in massage, physical, or occupational therapies; holistic or integrative bodywork; athletic training; chiropractic, and related disciplines. In addition to courses focused solely on trigger point therapy, this text may be used in broader courses in sports massage, orthopedic massage, neuromuscular therapy, clinical massage, medical massage, deep tissue therapy, neuromuscular therapy, integrated massage, and pain management.
Drawing on the author's 25 years of instructional experience, this book offers a proven, visual, and streamlined approach to mastering trigger point therapy for soft tissue pain relief. The use of direct compression to treat pain and discomfort from myofascial trigger point activity is examined in over 70 skeletal muscles. *Trigger Point Therapy* is designed for maximum simplicity. Overview s present important background information on relevant soft tissue anatomy, trigger point fundamentals (terminology, formation theory, and consequences), and trigger point deactivation. Each muscle – or muscle group – is then presented with focus on bodily location, osseous attachments, structural form, and principal functions. Relevant trigger point activity is detailed, including specific overloading factors, deactivation tactics, therapeutically-related muscles, and suggested stretches.

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Part I: Overview of Trigger Point Therapy
1. Soft Tissue Anatomy
2. Trigger Point Terminology and Formation
3. Trigger Point Deactivation
Part II: Focus on Body Regions
4. Leg and Foot Muscles
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6. Pelvic Muscles
7. Torso Muscles
8. Shoulder Girdle Muscles
9. Arm, Forearm, and Hand Muscles
10. Cervical Muscles
11. Craniomandibular Muscles

Pearson's Surgical Technology Exam Review, 3/e
Emily M. Rogers, *Spartensberg Tech*
Emily H. Boegli
Kathy LaRue

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Professionalism in Medical Assisting, 1/e
Kristiana Sue Routh

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ISBN-13: 9780132545464
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Textbook of Functional and Clinical Neuroscience, 1/e
Margaret Schenkman
James P. Bowman, *formerly of The Chicago Medical School*
Frank D. Giddings, *formerly of Colorado State University*
Russell Butler

ISBN-10: 0131720368
ISBN-13: 9780131720367
720pp ©2013 Paper

ISBN: 9780131720367

Basic Approach
For all courses in functional and clinical neuroscience.
This text is designed to help students understand the nervous system structures and functions that allow for complex neurophysiological processing in support of human functions and behavior. Students are guided through learning the vocabulary of contemporary neuroscience, understanding the nervous system's structural organization and communications mechanisms, and learning how structures are linked anatomically and functionally to mediate specific behaviors. To facilitate learning, this text builds incrementally on basic information to introduce increasingly detailed and complex structures, functions, and terminology. As students proceed, they develop working knowledge for predicting neurological problems associated with specific diseases or injury, and analyzing appropriate interventions.

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PART I: FUNDAMENTALS: THE RELATIONSHIPS AND DEVELOPMENT OF STRUCTURES, AND THE BASIS OF THEIR COMMUNICATION
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2. Regional Anatomy of the CNS and Its Blood Supply
3. Cells of the Nervous System.
4. Cellular Neurobiology
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6. Diencephalon and Cerebellum
7. Cerebral Hemispheres
PART III: SENSORY AND MOTOR SYSTEMS FOR THE EXTREMITIES AND TRUNK
8. Introduction to Somatic Sensory and Motor Systems
9. Somatic Sensory Systems for the Extremities and Trunk
10. Peripheral Components for the Control of Movement: The Motor Unit and Its Disorders
11. Central Components for the Control of Movement and Their Disorders
12. Autonomic Nervous System

PART IV: SENSORY AND MOTOR SYSTEMS FOR THE HEAD AND NECK
13. Cranial Nerves
14. Somatic Sensory and Motor Systems for the Head and Neck
15. Brain Stem Structure, Blood Supply, and Clinical Signs
PART V: SPECIAL FUNCTIONAL SYSTEMS OF THE CNS
PART VA: SENSORY SYSTEMS
16. Pain and Its Modulation
17. Vestibular and Auditory Systems
18. Vision
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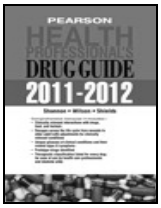
19. Cerebellum and Basal Ganglia
20. Voluntary Movement
PART VC: COGNITIVE SYSTEMS
21. Cognition and Association Cortex
22. Emotion, Memory, and Language
SUMMARY
PART VI: EXAMPLES OF NEUROLOGIC INJURY WITHIN THE CNS
23. Normal and Abnormal Aging
24. Strokes and Stroke Syndromes
25. The Brain's Environment and Traumatic Brain Injury
26. Brain Plasticity: Injury and Recovery



Pearson Health Professional's Drug Guide 2011-2012, 1/e

Margaret A. Shannon
Billie A. Wilson
Kelly Shields

ISBN-10: 0132738775
ISBN-13: 9780132738774
1792pp ©2012 Cloth

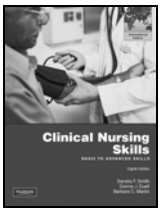
Basic Approach

Pearson Health Professional's Drug Guide 2011–2012 is a current and reliable reference designed to provide comprehensive information needed to make appropriate decisions regarding drug administration.

This is the drug guide preferred by physician assistants, physical therapists, occupational therapists - and all health care professionals who need accurate, easily accessed information about their patients' medications. Comprehensive, yet user-friendly, this handy resource includes important clinical implications for hundreds of drugs, including adverse reactions, interactions and side effects. Includes new approved drugs as approved by the FDA and other numerous updates.

Table of Contents

- Classification Scheme and Prototype Drugs
- Alphabetical Entries for Generic Drugs
- Appendix A. Ocular Medications, Low Molecular Weight Heparins, Inhaled Corticosteroids, and Topical Corticosteroids
- Appendix B. U.S. Schedules of Controlled Substances
- Appendix C. FDA Pregnancy Categories
- Appendix D. Oral Dosage Forms That Should Not Be Crushed
- Appendix E. Prescription Combination Drugs
- Appendix F. Glossary of Key Terms, Clinical Conditions, and Associated Signs and Symptoms
- Appendix G. Abbreviations
- Appendix H. Herbal and Dietary Supplement Table
- Bibliography
- Index
- Common Drug IV-Site Compatibility Chart



Clinical Nursing Skills, 8/e

Sandra F. Smith
Donna J. Duell, *Cabrillo College*
Barbara Martin, *University of Tulsa*

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ISBN-13: 9780132683609
1472pp ©2012 Paper

Basic Approach

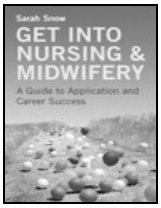
Comprehensive set of nursing skills and procedures that cross the nursing curriculum and can be used in clinical, or the skills laboratory,. For use in hospitals and medical clinics as policy/procedure books or for reference.

The most complete, up-to-date and useful guide to modern clinical nursing skills available! With more than 1,200 full-color images illustrating more than 750 new and updated skills, it is the definitive resource for best practice nursing standards, guidelines, and competencies. The authors teach through extensive case studies and critical thinking features, and thoroughly explain the rationales for each skill and technique. Strong coverage of evidence-based care, cultural/religious considerations, nursing management, and community based nursing is provided throughout. Easily adaptable to any conceptual curriculum model, this text also contains hundreds of NCLEX®-style review questions. This edition adds a new on neurological care; has integrated coverage of home care throughout; provides substantial new coverage of the 2010 national patient safety goals; and contains approximately 50 new skills.

Table of Contents

1. Professional Nursing
2. Nursing Process and Critical Thinking
3. Managing Client Care: Documentation and Delegation
4. Communication and Nurse-Client Relationship
5. Admission, Transfer, and Discharge
6. Client Education and Discharge Planning
7. Safe Client Environment and Restraints
8. Bathing, Bedmaking, and Maintaining Skin Integrity
9. Personal Hygiene
10. VItal Signs
11. Physical Assessment
12. Body Mechanics and Positioning
13. Exercise and Ambulation
14. Infection Control

15. Disaster Preparedness. Bioterrorism
16. Pain Management
17. Alternative Therapies and Stress Management
18. Medication Administration
19. Nutritional Management and NG Intubation
20. Specimen Collection
21. Diagnostic Procedures
22. Urinary Elimination
23. Bowel Elimination
24. Heat and Cold Therapies
25. Wound Care and Dressings
26. Perioperative Care
27. Orthopedic Interventions
28. Intravenous Therapy
29. Central Vascular Access
30. Respiratory Care
31. Circulatory Maintenance
32. Neurological Management - ***NEW!***
33. Advanced Nursing Skills
34. End of Life Care



Get into Nursing & Midwifery: A Guide to Application and Career Success, 1 / e
Sarah Snow

ISBN-10: 027374609X
ISBN-13: 9780273746096
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Table of Contents

1 An Introduction to the Professions.
2 Starting the Journey.
3 Application and Selection.
4 Pre-course Preparation.
5 Planning for Adversity: Building Resilience.

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Cultural Diversity in Health and Illness, 8 / e
Rachel E. Spector, Boston College

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ISBN-13: 9780132840064
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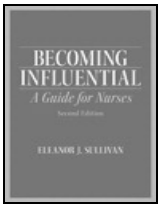
Basic Approach
The seventh edition of this well-respected book continues to promote an awareness of the dimensions and complexities involved in caring for people from diverse cultural backgrounds. Completely revised and updated, it examines the differences existing within North America by probing the health care system and consumers, and examples of traditional health beliefs and practices among selected populations. An emphasis on the influences of recent social, political, and demographic changes helps to explore the issues and perceptions of health and illness today. An essential for any health-care professional, this book sets the standard for cultural perspectives.



Becoming Influential: A Guide for Nurses, 2 / e
Eleanor J. Sullivan, University of Kansas Medical Center

ISBN-10: 0132706687
ISBN-13: 9780132706681
216pp ©2013 Paper

ISBN: 9780132706681
9 780132 706681

Basic Approach
For nursing students in courses ranging from Fundamentals of Nursing to Management and Professional Issues and Roles; will be valuable in programs including BSN, RN, BSN, accelerated BSN, and Masters.
Still the only book of its kind, this intensely practical text helps nurses build the skills they need to gain and use influence throughout their entire careers. This second edition is updated throughout with new information on nursing, health care, and technology — including social media. Readable, timely, and upbeat, BECOMING INFLUENTIAL: A GUIDE FOR NURSES teaches through real-life examples, offering proven advice for using influence to solve many contemporary workplace problems. Self-assessments help readers evaluate their current organizational power, communication and goal-setting skills, negotiating and interviewing expertise, and even

their abilities to manage confrontation. The book contains specific steps for career planning, resume building, career progress tracking, speech preparation, and more. Flexible learning activities include role plays, debates, observations, interviews, and networking assignments; up-to-date web and print resources support further exploration.

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1. What Is Influence and Why Do I Need It?
2. Rules of the Game
3. Understanding and Using Your Power
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8. Making Connections and Building Coalitions
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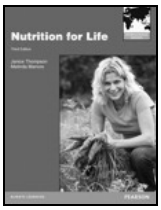
PART III. PUTTING INFLUENCE TO WORK FOR YOU
11. Enhancing Your Influence
12. Telling Nursing's Story
13. Managing Your Career
14. Balancing Your Life
PART IV. THE FINAL STEPS
15. Preparing Your Successors
16. Leaving Your Legacy
APPENDIX. Ten Little Known Secrets for Success

Effective Leadership and Management in Nursing, 8/e

Eleanor J. Sullivan, *University of Kansas Medical Center*

ISBN-10: 0132814544
ISBN-13: 9780132814546
341pp ©2013 Cloth

Basic Approach
For courses in undergraduate Nursing Management and Leadership
Completely updated in a new edition, *Effective Leadership and Management in Nursing* provides students with the necessary skills to make sound management decisions in a dynamic health care environment. Used worldwide, this award-winning book is now offered in a revised seventh edition to reflect the many changes in health care and nursing. Targeted to both practicing nurses and those in management, this book provides the tools for using the skills presented in each chapter, case studies with a managers checklist, critical thinking questions, key terms, an easy-to-read format, and a link to online instruction. In the ever-changing health care environment, nurses have never needed this information more.



Nutrition for Life, 3/e

Janice Thompson, The University of Bristol & The University of New Mexico
Melinda Manore, Oregon State University

ISBN-10: 0321799135
ISBN-13: 9780321799135
528pp ©2013 Paper

Basic Approach
Nutrition for Life capitalizes on students' natural interest in nutrition by demonstrating how it relates directly to their health and daily lives. This book is unique among introductory texts in its presentation of nutrients based on function, rather than chemical classification. Within the vitamins and minerals s, micronutrients are organized by their various functions within the body (such as tissue guardians, antioxidants, energy generators, essential electrolytes, mineral power plants, blood fortifiers, bone builders), enabling students to think about them conceptually while also understanding their basic roles in the body. This discourages rote memorization and promotes fuller and more accessible understanding of each micronutrients' importance. For those instructors who still want their students to understand the traditional chemical organization, the micronutrient s include detailed tables and overviews of water-soluble and fat-soluble vitamins, and the trace and major minerals.
Beyond the functional approach, Nutrition for Life includes new applied features such as Eating Right All Day, Foods You Don't Know You Love Yet, and end-of- Cooking videos, which gives students all they need to know to put good nutrition information into action. The Third Edition also includes a Nutri-Case in each plus the new MyPlate food patterns and recommendations. The art and photos have also been updated, along with a fresh interior design.

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1. Nutrition: Making It Work for You

2. The Human Body: Are We Really What We Eat?
3. Carbohydrates: Plant-Derived Energy Nutrients
4. Fat: An Essential Energy-Supplying Nutrient
5. Proteins: Crucial Components of All Body Tissues
6. Vitamins: Micronutrients with Macro Powers
7. Minerals: Building and Moving Our Bodies
8. Fluid Balance, Water, and Alcohol
9. Achieving and Maintaining a Healthful Body Weight
10. Nutrition and Physical Activity: Keys to Good Health
11. Nutrition Throughout the Life Cycle
12. Nutrition Issues: The Safety and Security of the World's Food Supply

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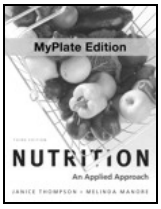

Nutrition: An Applied Approach, MyPlate Edition, 3/e

Janice Thompson, *The University of Bristol & The University of New Mexico*
Melinda Manore, *Oregon State University*

ISBN-10: 0321813707
ISBN-13: 9780321813701
720pp ©2012 Paper

Basic Approach

Nutrition: An Applied Approach, MyPlate Edition, Third Edition introduces non-majors to nutrition with an innovative, applied format that discourages rote memorization and promotes long-term understanding of the material. The authors build on students' natural interest in nutrition by demonstrating in a clear, conversational style how key nutritional information relates to their personal health, and show how to debunk commonly held misconceptions.

The applied approach is reflected in the functional organization of the micronutrient s, focusing on the vitamins and minerals and their primary functions within the body. The applied content is focused on four key s–fluid and electrolyte balance, antioxidant function, bone health, and energy metabolism and blood health; areas of particular importance to instructors. Students can easily grasp this conceptual framework for understanding the role nutrients play in their bodies and overall health.

Along with a host of engaging new features–including 11 new In Depth mini-s that follow each main ; a selection of interactive nutrition animations covering a wide range of topics; and useful in-text features including self-assessments and Eating Right All Day meal suggestions organized by topics–the **Third Edition** includes updated theory and research findings, developing trends, and tools to help students identify and challenge nutritional myths and misperceptions.

The **MyPlate Edition** features a write-to-fit update so that students and instructors have the latest nutrition information right within their book (and instructors don't have to change their syllabus). New information includes the new MyPlate graphic (which replaces the former MyPyramid), the 2010 Guidelines, and the new Dietary Reference Intakes.

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1: The Role of Nutrition in Our Health
In Depth: Alcohol

2: Designing a Healthful Diet
In Depth: Phytochemicals

3: The Human Body: Are We Really What We Eat?
In Depth: Disorders Related to Specific Foods

4: Carbohydrates: Plant-Derived Energy Nutrients
In Depth: Diabetes

5: Fats: Essential Energy-Supplying Nutrients
In Depth: Cardiovascular Disease

6: Proteins: Crucial Components of All Body Tissues
In Depth: Vitamins and Minerals: Micronutrients with Macro Powers

7: Nutrients Involved in Fluid and Electrolyte Balance
In Depth: Dehydration and Fluid Imbalance

8: Nutrients Involved in Antioxidant Function
In Depth: Cancer

9: Nutrients Involved in Bone Health
In Depth: Osteoporosis

10: Nutrients Involved in Energy Metabolism and Blood Health
In Depth: Dietary Supplements: Necessity or Waste?

11: Achieving and Maintaining a Healthful Body Weight

In Depth: Obesity

12: Nutrition and Physical Activity: Keys to Good Health
In Depth: Disordered Eating

13: Food Safety, Systems, and Technology
In Depth: Global Nutrition

14: Nutrition Through the Life Cycle: Pregnancy and the First Year of Life
In Depth: The Fetal Environment: A Lasting Impression

15: Nutrition Through the Life Cycle: Childhood to Late Adulthood
In Depth: Searching for the Fountain of Youth

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Case Studies in Dental Hygiene, 3/e

Evelyn Thomson, *Old Dominion University*

ISBN-10: 0132913089
ISBN-13: 9780132913089
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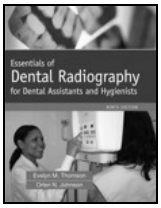

Essentials of Dental Radiography, 9/e

Evelyn Thomson, *Old Dominion University*
Orlen Johnson

ISBN-10: 0138019398
ISBN-13: 9780138019396
456pp ©2012 Paper

Basic Approach

For courses in oral radiography as part of programs for dental assistants and hygienists.

This clear, up-to-date, and student-friendly text tightly links oral radiological principles with modern practice. It presents all information needed for introductory courses in dental radiography, preparing students for board and licensing examinations while offering real-world resources for clinical practice and patient management. Coverage includes: historical perspectives, radiation basics, biologic effects and protection, dental X-ray image receptors, processing techniques; dental radiographer fundamentals, intraoral and extraoral techniques, radiographic errors, quality assurance; mounting and viewing radiographs, and patient management. This Ninth Edition integrates coverage of digital imaging throughout, presents paralleling and bisecting techniques in separate s, and adds a new on safety and environmental responsibilities. It also contains many new study questions and improved images.

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1. History of Dental Radiography
2. Characteristics and Measurement of Radiation
3. The Dental X-ray Machine: Components and Functions
4. Producing Quality Radiographs

PART II: Biological Effects of Radiation and Radiation Protection
5. Effects of Radiation Exposure
6. Radiation Protection

PART III: Dental X-ray Image Receptors and Processing Techniques
7. Dental X-ray Film
8. Dental X-ray Film Processing
9. Digital Radiography

PART IV: Dental Radiographer Fundamentals
10. Infection Control
11. Legal and Ethical Responsibilities
12. Patient Relations and Education

PART V: Intraoral Techniques
13. Intraoral Radiographic Procedures
14. The Periapical Examination-Paralleling Technique
15. The Periapical Examination-Bisecting Technique
16. The Bitewing Examination
17. The Occlusal Examination

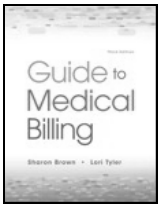
PART VI: Radiographic Errors and Quality Assurance
18. Identifying and Correcting Undiagnostic Radiographs

19. Quality Assurance in Dental Radiography.
20. Safety and Environmental Responsibilities in Radiography

PART VII: Mounting and Viewing Dental Radiographs
21. Mounting and Introduction to Interpretation
22. Recognizing Normal Radiographic Anatomy
23. Recognizing Deviations from Normal Radiographic Anatomy
24. The Use of Radiographs in the Detection of Dental Caries
25. The Use of Radiographs in the Evaluation of Periodontal Diseases

PART VIII: Patient Management and Supplemental Techniques
26. Radiographic Techniques for Children
27. Managing Patients with Special Needs
28. Supplemental Radiographic Techniques

PART IX: Extraoral Techniques
29. Extraoral Radiography and Alternate Imaging Modalities
30. Panoramic Radiography



Guide to Medical Billing, 3/e
Sharon Brown
Lori Tyler

ISBN-10: 0135041376
ISBN-13: 9780135041376
408pp ©2013 Paper Bound w/CD-ROM

ISBN: 9780135041376

Basic Approach
For all courses in medical billing, medical coding, and/or medical insurance, in any institution or environment.
This unique textbook/workbook brings together all the theory and practical skills students need to succeed as medical billers. After introducing students to the medical practice, it presents in-depth coverage of every common medical billing procedure and practice used in both medical offices and hospitals. This edition includes extensive new coverage of transitioning to ICD-10-CM from ICD-CM in medical offices, and using the newer UB-04 form in hospitals. Coverage also includes: Current Procedural Terminology (CPT®) coding, stress and time management, CMS-1500 forms and medical procedures, hospital procedures, basic office functions and communications, and much more. To enhance understanding and retention, the text uses proven pedagogical features, including learning objectives, key terms and definitions, critical thinking questions, in-text activities simulating professional practice, and additional end-of- exercises.

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Section I. Medical Practice Administration
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2. Legal and Ethical Issues of Medical Billing
3. Clinical Records and Medical Documentation
Section II. Health Insurance Programs
4. Health Insurance Programs
5. Medicare and Medicaid
6. Workers' Compensation
7. Managed Care
Section III. Finances and Accounting
8. Medical Practice Accounting
Section IV. Medical Coding
9. Reference books
10. International Classification of Disease (ICD-9-CM) Coding
11. Transitioning from ICD-9-CM to ICD-10-CM/PCS
12. Coding with ICD-10-CM/PCS
13. Current Procedural Terminology (CPT®) Coding
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Comprehensive Health Insurance: Billing, Coding & Reimbursement, 2/e
Deborah Vines
Ann Braceland

ISBN-10: 0132966891
ISBN-13: 9780132966894
944pp ©2013 Paper

ISBN: 9780132966894

Basic Approach
This textbook provides students with the knowledge and skills needed to work in a variety of medical billing and coding postions in the medical field. It covers the foundations of insurance, billing, coding and reimbursement. Students learn not only the submission of claims to the insurance carrier but reveiwing medical records, verifying patient benefits, submittiing a secondary claim, posting payments and appealing the insurance carrier's decision. Numerous case studies and patient files are included in the book and also available on the student CD ROM. They provide students with hours worth of hands on practice. The student CD ROM is a medical billing simulation which allows students the opportunity to practice claims over and over. Medisoft coverage is in an appendix for greater flexibility and a Medisoft tutorial of 25 case studies is available separately. Reviewers of Comprehensive Health Insurance: Billing, Coding and Reimbursement applaud the book's coverage of refunds and appeals, auditing and compliance, Medicare calculations and professionalism on the Job!

Clinical Massage Therapy: A Structural Approach to Pain Management, 1/e

James Waslaski

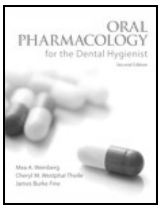
ISBN-10: 0137063628
ISBN-13: 9780137063628
312pp ©2012 Paper

Basic Approach
For all intermediate to advanced-level courses in massage therapy.

This text teaches effective therapeutic massage techniques that can prevent or eliminate multifaceted pain conditions, including chronic pain, sports injuries, and structural imbalance. Its unique 12-step approach focuses on treating specific conditions with techniques based on structural balance, bridging all touch therapy disciplines, and offering a new model for massage training. Detailed color illustrations reveal underlying pathologies, and flowcharts explain treatment steps. Massage students learn from Body Maps; Expert Opinion features; precautionary Alerts; clear Body Mechanics instructions; case studies, review questions, and a complete glossary. The text's multimodal and multidisciplinary approach makes it equally valuable to physical and occupational therapists, trainers, chiropractors, osteopaths, nurses, manipulative therapists, and physicians.

Table of Contents

1. The Twelve-Step Approach. Assessment, Treatment, and Client Self Care
2. Pelvic Stabilization
3. Lower Leg, Ankle, and Foot Conditions
4. Knee and Thigh Conditions
5. Shoulder Conditions
6. Cervical Spine Conditions
7. Elbow, Forearm, Wrist and Hand Conditions



Oral Pharmacology for the Dental Hygienist, 2/e

Mea A. Weinberg, *New York University College of Dentistry*
Cheryl Westphal, *New York University College of Dentistry*
James Burke Fine

ISBN-10: 0132559927
ISBN-13: 9780132559928
360pp ©2013 Paper

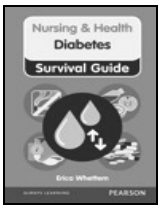
ISBN: 9780132559928

Basic Approach
For courses in Oral Pharmacology and Dental Hygiene.
Oral Pharmacology for the Dental Hygienist, Second Edition, offers a comprehensive review of the principles of pharmacology and their application to dental hygiene practice. This practical textbook covers many oral manifestations of drugs of which the dental hygiene student should be aware. Quick drug guides, fun facts, and unique rapid dental hints in each help students understand different pharmacologic principles while reinforcing key information. Case studies extensively review the medical conditions, potential drug interactions, and dental management of drug interactions.

Table of Contents

1. Introduction to Clinical Pharmacology
2. Fundamentals of Drug Action
3. Autonomic Drug
4. Local Anaesthetics
5. Sedation and General Anaesthetics
6. Drugs for Pain Control
7. Anti-infective Agents
8. Antiviral and Antifungal Agents
9. Antineoplastic and Immunosuppressant Drugs
10. Fluorides
11. Cardiovascular Drugs

12. Gastrointestinal Drugs
13. Respiratory Drugs
14. Neurologic Drugs
15. Psychotropic Drugs
16. Endocrine and Hormonal Drugs

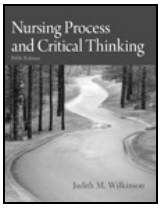


Nursing and Health Survival Guide: Diabetes, 1/e
Erica Whettem

ISBN-10: 0273758012
ISBN-13: 9780273758013
64pp ©2012 Paper

Table of Contents

- Introduction
- Diabetes basics
- Diabetes management
- Glycaemic control
- Long-term complications
- Life with diabetes



Nursing Process and Critical Thinking, 5/e
Judith M. Wilkinson, *Johnson Community College*

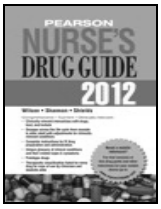
ISBN-10: 0132181622
ISBN-13: 9780132181624
480pp ©2012 Paper

Basic Approach
For courses in Success in Nursing, Critical Thinking, Fundamentals of Nursing, and Nursing Concepts.

This innovative text uses concrete examples and hands-on exercises to help students clearly understand and apply the steps of the nursing process to today's rapidly changing healthcare environment. Moving beyond step-by-step instructions, the book encourages students to think about each part of the nursing process and use critical thinking to make better clinical decisions. Balancing practical and conceptual aspects of the nursing process, this edition includes an expanded interactive format, new Take Away Points, What do You Know, and Think About It features and a student resourceswebsite to help students begin to think like a nurse.

Table of Contents

1. Overview of Nursing Process
2. Critical Thinking
3. Assessment
4. Diagnostic Reasoning
5. Diagnostic Language
6. Planning: Overview and Outcomes
7. Planning: Interventions
8. Implementation
9. Evaluation
10. Creating a Plan of Care



Pearson Nurse's Drug Guide 2012, 1/e
Billie A. Wilson
Margaret A. Shannon
Kelly Shields

ISBN-10: 013255867X
ISBN-13: 9780132558679
1792pp ©2012 Cloth

Basic Approach
For courses in nursing curricula covering drugs and/or drug administration.

With over 250 updates, the new 2012 edition of the *Pearson Nurse's Drug Guide* provides safe, effective, current, and accurate drug information in a quickly accessible format. Comprehensive and complete, it lists all drugs alphabetically by generic names for quick reference, with an index listing both generic and trade names. It presents important clinical information for hundreds of drugs, with adverse reactions, interactions, side effects,

and impacts on lab results. It clearly presents information on IV preparation and push, continuous, or intermittent administration; as well as dosages for neonates, infants, adolescents, adults, and patients with obesity and renal or hepatic impairment. This edition also contains 16 brand-new monographs for drugs recently approved by the FDA.

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Alphabetical Entries for Generic Drugs

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Appendix C. FDA Pregnancy Categories
Appendix D. Oral Dosage Forms That Should Not Be Crushed
Appendix E. Prescription Combination Drugs
Appendix F. Glossary of Key Terms, Clinical Conditions, and Associated Signs and Symptoms
Appendix G. Abbreviations
Appendix H. Herbal and Dietary Supplement Table
Appendix I. Look-Alike, Sound-Alike Medications

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Common Drug IV-Site Compatibility Chart

No image available

Pearson Nurse's Drug Guide 2013, 2/e

Billie A Wilson
Margaret Shannon
Kelly Shields

ISBN-10: 0132964899
ISBN-13: 9780132964890
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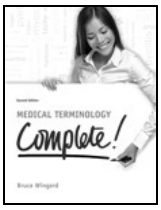
Basic Approach
With over 250 updates, the new 2012 edition of the *Pearson Nurse's Drug Guide* provides safe, effective, current, and accurate drug information in a quickly accessible format. Comprehensive and complete, it lists all drugs alphabetically by generic names for quick reference, with an index listing both generic and trade names. It presents important clinical information for hundreds of drugs, with adverse reactions, interactions, side effects, and impacts on lab results. It clearly presents information on IV preparation and push, continuous, or intermittent administration; as well as dosages for neonates, infants, adolescents, adults, and patients with obesity and renal or hepatic impairment. This edition also contains 16 brand-new monographs for drugs recently approved by the FDA.



Medical Terminology Complete!, 2/e

Bruce S. Wingerd, Edison State College

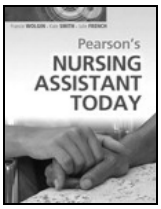
ISBN-10: 0132843226
ISBN-13: 9780132843225
592pp ©2013 Paper

Basic Approach
For college-level courses in medical terminology.
This clear, concise, and conversational book teaches the most current and accepted language of healthcare, using a self-guided "programmed learning" approach that has helped thousands of students prepare for health careers. It emphasizes the medical terms used most commonly by hospitals and clinics, while providing only essential information on anatomy and physiology. Discussions are supported by accurate and compelling illustrations and photographs throughout, including many new images. Questions are provided both within and after each , and many medical reports and case studies are provided to enable students to apply what they've learned. This edition has been improved with even more sample reports and case studies; expanded coverage of sight and hearing; and robust interactive tools online.

Table of Contents

1. Introduction to Word Parts and Word Construction
2. Understanding Suffixes
3. Understanding Prefixes
4. The Human Body in Health and Disease
5. The Integumentary System
6. The Skeletal and Muscular Systems
7. Blood and the Lymphatic System
8. The Cardiovascular System
9. The Respiratory System
10. The Digestive System

11. The Urinary System
12. Reproductive System and Obstetrics
13. The Nervous System and Mental Health
14. The Special Senses of Sight and Hearing
15. The Endocrine System



Pearson's Nursing Assistant Today, 1/e
Francie Wolgin
Kate Smith
Julie French

ISBN-10: 0135064422
ISBN-13: 9780135064429
1040pp©2012 Paper

Basic Approach
For nursing assistant courses in any venue or institution, including high schools, community colleges, technical schools, nursing centers, and hospitals.

PEARSON'S NURSING ASSISTANT TODAY brings together all the skills, knowledge, and practical insights today's nursing assistants need to succeed in any care environment. Written for students with widely diverse learning needs and reading proficiencies, it is designed for easy understanding and quick reference. It presents 152 step-by-step procedures, ranging from the absolute basics to advanced procedures for use at the instructor's discretion. All procedures reflect 2010 AHA guidelines for CPR and ECC, modern care technologies, and Medicare OBRA requirements. Each procedure is explained with rationales, preparation, steps, follow-up, a charting example, and in many cases, full-color illustrations. This text's pedagogical features include learning objectives, "On the Job" scenarios, "Nursing Assistant in Action" critical thinking features, exercises, sample exams, and more.

Table of Contents

1 The Health Care System
2 The Role of the Nursing Assistant, Workplace Ethics, and Legal Aspects of Patient Care
3 Communication Skills
4 Medical Terminology, Abbreviations, and Specialties
5 Patients, Residents, and Clients
6 Infection Control
7 Safety
8 Body Mechanics Positioning, Moving, and Transporting Patients
9 Personal Care of the Patient
10 The Patient's Room
11 Bedmaking
12 Admitting, Transferring, and Discharging a Patient
13 The Human Body
14 Growth and Development
15 The Musculoskeletal System and Related Care
16 The Integumentary System and Related Care
17 The Circulatory System and Related Care
18 Measuring Vital Signs
19 The Gastrointestinal System and Related Care
20 Nutrition for the Patient
21 The Urinary System and Related Care
22 Specimen Collection
23 The Endocrine System and Related Care of Diabetics
24 The Reproductive System and Related Care
25 The Nervous System and Related Care
26 Emergency Care
27 Warm and Cold Applications
28 Care of the Surgical Patient
29 Special Procedures
30 Patients with Special Needs
31 Neonatal and Pediatric Care
32 Home Health Care
33 The Older Adult Patient and Long Term Care
34 Rehabilitation and Return to Self-Care
35 The Terminally Ill Patient and Postmortem Care
36 Beginning Your Career as a Nursing Assistant

Making a Difference with Nursing Research, 1/e
Anne Young
Rae Langford

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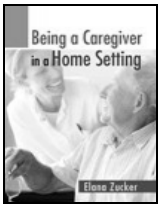
500pp ©2013 Paper



Being a Caregiver in a Home Setting, 1/e
Elana Zucker

ISBN-10: 013274189X
ISBN-13: 9780132741897
352pp ©2013 Paper

ISBN: 9780132741897

Basic Approach

For courses in home health care for aides and other members of the home health care team.

Using simple explanations and clear examples, ***BEING A CAREGIVER IN A HOME SETTING*** teaches all aspects of caring for individuals in the home. It explains how to accomplish the daily tasks involved in home care; emphasizes the importance of both efficiency and a caring and sensitive attitude towards patients and family members; and helps home health aides understand their roles in the home health care system. All activities are geared toward encouraging and creating an atmosphere of patient safety and independence, while helping caregivers build confidence. Readers will find practical coverage of key issues including the special needs of children under stress; elderly patients; terminally ill individuals; and the physically and mentally disabled. The book also covers home rehabilitation; diseases common to homebound patients; nutritional information; and modern emergency and first aid procedures.

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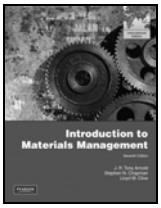
1 Providing Care in the Home
2 Communication Skills
3 Working with People
4 Caring for an Elderly Person
5 Working with Children
6 Care of the Dying in the Home
7 Infection Control in the Home
8 Care of a Person's Environment
9 Planning, Purchasing, and Serving Food
10 Basic Body Movement and Positions
11 Skin Care
12 Personal Care
13 Rehabilitation of the Individual Receiving Care at Home
14 Vital Signs
15 Preventing Fluid Overload and Dehydration
16 Specimen Collection
17 Special Procedures
18 Common Diseases
19 Emergency Procedures



Introduction to Materials Management, 7/e

J. R. Tony Arnold, *Fleming College*
Stephen N. Chapman, *North Carolina State University, Chapel Hill*
Lloyd M. Clive, *Fleming College*

ISBN-10: 0132668874
ISBN-13: 9780132668873
525pp ©2012 Paper

Basic Approach

For all courses in Materials Management, Production, Inventory Control, and Logistics taught in business and industrial technology departments of community colleges, four-year colleges, and universities.

Introduction to Materials Management, Seventh Edition covers all the essentials of modern supply chain management, manufacturing planning and control systems, purchasing, and physical distribution. Clearly written and exceptionally user-friendly, its content, examples, questions, and problems lead students step-by-step to mastery. This edition's extensive updates include: new techniques, technology, and case studies; reorganized and expanded coverage of lean production and JIT manufacturing; new information on sustainability and "green" production; use of INCOTERMS for global supply chains; revised end-of- problems, and more. Widely adopted by colleges and universities worldwide, this is the only APICS-listed reference text for the Basics of Supply Chain Management (BSCM) CPIM certification examination.

Table of Contents

1. Introduction to Materials Management
2. Production Planning System
3. Master Scheduling
4. Material Requirements Planning
5. Capacity Management
6. Production Activity Control
7. Purchasing
8. Forecasting
9. Inventory Fundamentals
10. Order Quantities
11. Independent Demand Ordering Systems
12. Physical Inventory and Warehouse Management
13. Physical Distribution
14. Products and Processes
15. Just-in-Time Manufacturing and Lean Production
16. Total Quality Management

Quality Improvement, 9/e

Dale H. Besterfield, College of Engineering, Southern University at Carbondale, Besterfield & Associates

ISBN-10: 0132877678
ISBN-13: 9780132877671
552pp ©2013 Paper

ISBN: 9780132877671

Basic Approach

For undergraduate and graduate-level courses in Quality Control, Statistical Process Control, Quality Improvement, and Quality Assurance. This book will be valuable in programs such as Quality Improvement, Lean Six Sigma, Quality Control, and Statistical Process Control; in Associate Degree in Quality and other technical programs; in Baccalaureate programs in Engineering, Technology, Health Care, Education, and Business; and in Masters Degree programs in business.

Formerly titled *Quality Control*, the field's most accessible introduction to quality has been renamed and revamped to focus on quantitative aspects of quality improvement. New s on Lean Enterprise, Six Sigma, Experimental Design, and Taguchi's Quality Engineering have been added, and this new Ninth Edition adds comprehensive coverage of fundamental statistical quality improvement concepts. A practical state-of-the-art approach is stressed throughout, and sufficient theory is presented to ensure that students develop a solid understanding of basic quality principles. To improve accessibility, probability and statistical techniques are presented through simpler math or developed via tables and charts. As with previous editions, this text is written to serve a widely diverse audience of students, including the growing number of "math shy" individuals who must play key roles in quality improvement.

Table of Contents

1. Introduction to Quality Improvement

2. Lean Enterprise
3. Six Sigma
4. Statistical Process Control
5. Fundamentals of Statistics
6. Control Charts for Variables
7. Additional SPC Techniques for Variables
8. Fundamentals of Probability
9. Control Charts for Attributes
10. Acceptance Sampling.
11. Reliability
12. Management and Planning Tools
13. Experimental Design
14. Taguchi's Quality Engineering

Mechanical Behavior of Materials, 4/e

Norman E. Dowling, *Virginia Tech*

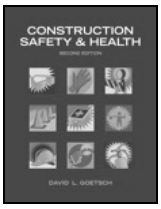
ISBN-10: 013284771X
ISBN-13: 9780132847711
928pp ©2012 Paper

Basic Approach
For upper-level undergraduate engineering courses in Mechanical Behavior of Materials.

Mechanical Behavior of Materials, 4/e introduces the spectrum of mechanical behavior of materials, emphasizing practical engineering methods for testing structural materials to obtain their properties, and predicting their strength and life when used for machines, vehicles, and structures. With its logical treatment and ready-to-use format, it is ideal for upper-level undergraduate students who have completed elementary mechanics of materials courses.

Table of Contents

1 Introduction
2 Structure and Deformation in Materials
3 A Survey of Engineering Materials
4 Mechanical Testing: Tension Test and Other Basic Tests
5 Stress—Strain Relationships and Behavior
6 Review of Complex and Principal States of Stress and Strain
7 Yielding and Fracture under Combined Stresses
8 Fracture of Cracked Members
9 Fatigue of Materials: Introduction and Stress-Based Approach
10 Stress-Based Approach to Fatigue: Notched Members
11 Fatigue Crack Growth
12 Plastic Deformation Behavior and Models for Materials
13 Stress—Strain Analysis of Plastically Deforming Members
14 Strain-Based Approach to Fatigue
15 Time-Dependent Behavior: Creep and Damping



Construction Safety & Health, 2/e

David L. Goetsch, University of West Florida and Oskaloosa-Walton

ISBN-10: 0132374692
ISBN-13: 9780132374699
360pp ©2013 Cloth

Basic Approach
For courses in construction safety and health at any university, college, community college, technical school, or corporate training environment, as part of programs in construction engineering, construction technology, construction management, or various construction-related trades.
This up-to-date and practical teaching resource makes the theories and principles of construction safety and health useful in a real-world setting, and integrates up-to-the-minute research throughout. Direct and straightforward, it focuses on the specific needs of modern construction professionals and on the requirements set forth by OSHA and other regulators., Each focuses on one key area of concern, and s are sequenced to reflect the typical organization of college-level construction safety and health courses. Extensive updates include: LEED accreditation; effects of design on construction safety; new material on ergonomics, human factors, and behavior-based safety; and much more. Every includes review questions, listings of key terms and concepts, and activities promoting critical thinking, discussion, and hands-on application.

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Introduction: Safety Movement and the Construction Industry

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1. Cost of Accidents: Why Safety is Important
2. Role of Construction Personnel in Safety and Health
3. Accident Causation Theories
4. Ethics and Safety
5. Workers' Compensation
6. OSHA Compliance

Part 2. OSHA's Construction Standard and Related Safety Practices
7. Subparts A through E and Related Safety Practices
8. Subparts F through J and Related Safety Practices
9. Subparts K through O and Related Safety Practices
10. Subparts P through U and Related Safety Practices
11. Subparts V through Z and Related Safety Practices

Part 3. Application on the Job
12. Construction Safety and Health: Program and Policies
13. J Hazard Analysis and Construction Equipment Safety
14. Accident Investigation, Reporting, and Record Keeping
15. Emergency Response Plan
16. Total Safety Management

Part 4. Other Safety and Health Issues and Practices
17. Preventing Violence in the Workplace
18. Bloodborne Pathogens in the Workplace
19. Stress, Ergonomics, and Behavior-Based Safety
20. Environmental Safety and ISO 14000
21. Promoting Safety

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Quality Management for Organizational Excellence: Introduction to Total Quality, 7/e

David L. Goetsch, University of West Florida and Oskaloosa-Walton
Stanley Davis

ISBN-10: 0132870975
ISBN-13: 9780132870979
480pp ©2013 Paper

Basic Approach
For all courses in quality management, quality engineering, quality technology, and continuous process improvement, in universities, colleges, community colleges, and corporate environments.
This practical, student-focused text shows how to focus all of an organization's resources on continuous and simultaneous improvement of quality and productivity – thereby continually improving both performance and competitiveness. It coherently addresses all elements of quality management, including Lean, Six Sigma, Lean Six Sigma, and many topics that competitive books overlook (e.g., peak performance, partnering, manufacturing networks, culture, and crucial "people" aspects of quality). Direct and straightforward, it links "big picture" theories and principles to detailed real-world strategies and techniques. Throughout, critical thinking activities, discussion assignments, and research links promote deeper thinking and further exploration. This edition adds all-new cases, plus new information on topics ranging from supervision to certification, QFD and SPC to benchmarking and JIT.

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Part I: Philosophy and Concepts
1. The Total Quality Approach to Quality Management: Achieving Organizational Excellence
2. Quality and Global Competitiveness
3. Strategic Management: Planning and Execution for Competitive Advantage
4. Quality Management, Ethics, and Corporate Social Responsibility
5. Partnering and Strategic Alliances
6. Quality Culture: Changing Hearts, Minds, and Attitudes
7. Customer Satisfaction, Retention, and Loyalty
8. Employee Empowerment
9. Leadership and Change
10. Team Building and Teamwork
11. Effective Communication
12. Education and Training
13. Overcoming Politics, Negativity, and Conflict in the Workplace
14. ISO 9000 and Total Quality: the Relationship. ISO 9000: the International Standard for Quality Management Systems

Part II: Tools and Techniques.
15. Overview of Total Quality Tools
16. Problem Solving and Decision Making
17. Quality Function Deployment
18. Optimizing and Controlling Processes Through Statistical Process Control
19. Continual Improvement Methods With Six Sigma, Lean, and Lean Six Sigma
20. Benchmarking
21. Just-in-Time Manufacturing
22. Implementing Total Quality Management

No image available

Quality Technician's Handbook, The, 6 / e

Gary K. Griffith, *Griffith Training*

ISBN-10: 0132621282
ISBN-13: 9780132621281
624pp ©2013 Cloth

Basic Approach

For all courses in Quality Control, Quality Assurance, and Inspection serving operators, machinists, inspectors, quality technicians, associate quality engineers, and other manufacturing and purchasing personnel; and for ASQ Certification Courses (e.g., Certified Quality Technician and Certified Mechanical Inspector).
An ASQ best-seller, this text covers the core skills that contribute to ongoing quality at the technician level. More comprehensive than competitive texts, it breaks down technical topics into easy-to-follow directions, many of them presented with step-by-step instructions and intuitive visuals. Coverage includes: quality basics, TQM, costs, audits, inspections, drawings, dimensioning, tolerancing, graphical inspection analysis, measurements, surface plate inspection, lot-by-lot acceptance sampling with current ANSI/ASQC standards, SPC, shop mathematics, and more. This edition presents many new and revised review questions, contains answers to odd-numbered questions, adds new coverage of Failure Modes and Effects Analysis (FMEA), and offers updated coverage of other topics, including Geometric Tolerancing.

Table of Contents

1. Introduction to Quality
2. Total Quality Management
3. Quality Costs
4. Quality Audits
5. Inspection Systems and Planning
6. Reading Engineering Drawings
7. Geometric Dimensioning and Tolerancing
8. Graphical Inspection Analysis
9. Common Measuring Tools and Measurements
10. Surface Plate Inspection Methods
11. Special Measuring Equipment and Techniques
12. Lot-by-Lot Acceptance Sampling Plans
13. Statistical Process Control
14. Shop Mathematics
Glossary A. Quality Terms and Definitions
Glossary B. Various Manufacturing Processes
Glossary C. Terms Used in Reliability
Glossary D. Overview of Nondestructive Evaluation Methods
Glossary E. Answers to Odd-Numbered Review Questions
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No image available

Fundamentals of Engineering Economics, 3 / e

Chan S. Park, Auburn University

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ISBN-13: 9780273772910
656pp ©2013 Paper

Basic Approach

For Engineering Economics courses, found in departments of Industrial, Civil, Mechanical, and Electrical Engineering.
From the author of the best-selling Contemporary Engineering Economics text, Fundamentals of Engineering Economics offers a concise, but in-depth coverage of all fundamental topics of Engineering Economics.

Table of Contents

PART 1 UNDERSTANDING MONEY AND ITS MANAGEMENT
1 Engineering Economic Decisions
2 Time Value of Money
3 Understanding Money Management
4 Equivalence Calculations under Inflation

PART 2 EVALUATING BUSINESS AND ENGINEERING ASSETS
5 Present-Worth Analysis

6 Annual-Equivalence Analysis
7 Rate-of-Return Analysis
8 Benefit—Cost Analysis

PART 3 DEVELOPMENT OF PROJECT CASH FLOWS
9 Accounting for Depreciation and Income Taxes
10 Project Cash-Flow Analysis
11 Handling Project Uncertainty

PART 4 SPECIAL TOPICS IN ENGINEERING ECONOMIC
12 Replacement Decisions
13 Understanding Financial Statements

Engineering Economy, 15/e

William G. Sullivan, *Virginia Polytechnic Institute and State University*
Elin M. Wicks
C. Patrick Koelling

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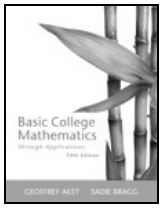
ISBN-13: 9780273751533
672pp ©2012 Paper

Basic Approach
For undergraduate, introductory courses in Engineering Economics.

Used by engineering students worldwide, this best-selling text provides a sound understanding of the principles, basic concepts, and methodology of engineering economy. Built upon the rich and time-tested teaching materials of earlier editions, it is extensively revised and updated to reflect current trends and issues, with an emphasis on the economics of engineering design throughout. It provides one of the most complete and up-to-date studies of this vitally important field.

Table of Contents

1 Introduction to Engineering Economy
2 Cost Concepts and Design Economics
3 Cost-Estimation Techniques
4 The Time Value of Money
5 Evaluating a Single Project
6 Comparison and Selection among Alternatives
7 Depreciation and Income Taxes
8 Price Changes and Exchange Rates
9 Replacement Analysis
10 Evaluating Projects with the Benefit−Cost Ratio Method
11 Breakeven and Sensitivity Analysis
12 Probabilistic Risk Analysis
13 The Capital Budgeting Process
14 Decision Making Considering Multiattributes



Basic College Mathematics through Applications, 5/e

Geoffrey Akst
Sadie Bragg

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Basic Approach
The Akst/Bragg series uses a clear and concise writing style that teaches by example, while fostering conceptual understanding with applications that are integrated throughout the text and exercise sets. The user-friendly design offers a distinctive side-by-side format that pairs examples and their solutions with corresponding practice exercises. Students understand from the very beginning that doing math is an essential part of learning it. The clear, concise writing style holds students' interest by presenting the mathematics with minimal distractions. Motivational, real-world applications demonstrate how integral mathematical understanding is to a variety of disciplines, careers, and everyday situations.

Table of Contents

1. Whole Numbers
2. Fractions
3. Decimals
4. Basic Algebra: Solving Simple Equations
5. Ratio and Proportion
6. Percents
7. Signed Numbers
8. Basic Statistics
9. More on Algebra
10. Measurement and Units
11. Basic Geometry

Intermediate Algebra Through Applications, 3/e

Geoffrey Akst
Sadie Bragg

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ISBN-13: 9780321746719
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Basic Approach
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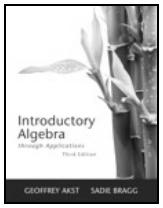
Table of Contents

1. Algebra Basics
2. Linear Equations and Inequalities
3. Graphs, Linear Equations and Inequalities, and Functions
4. Systems of Linear Equations and Inequalities
5. Polynomials
6. Rational Expressions and Equations
7. Radical Expressions and Equations
8. Quadratic Equations, Functions, and Inequalities
9. Exponential and Logarithmic Functions
10. Conic Sections



Introductory Algebra Through Applications, 3/e

Geoffrey Akst
Sadie Bragg

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Basic Approach

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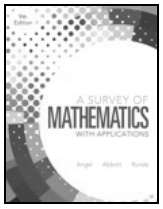
R. Prealgebra Review
1. Introduction to Real Numbers and Algebraic Expressions
2. Solving Linear Equations and Inequalities
3. Graphing Linear Equations and Inequalities
4. Solving Systems of Linear Equations
5. Exponents and Polynomials
6. Factoring Polynomials
7. Rational Expressions and Equations
8. Radical Expressions and Equations
9. Quadratic Equations



Survey of Mathematics with Applications, A, 9/e

Allen R. Angel, Monroe Community College
Christine D. Abbott, Monroe Community College
Dennis C. Runde, State College of Florida

ISBN-10: 0321759664
ISBN-13: 9780321759665
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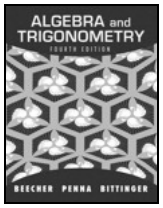
Basic Approach

In a Liberal Arts Math course, a common question students ask is, "Why do I have to know this?" **A Survey of Mathematics with Applications** continues to be a best-seller because it shows students **how** we use mathematics in our daily lives and **why this is important**. The Ninth Edition further emphasizes this with the addition of new "**Why This Is Important**" sections throughout the text. Real-life and up-to-date examples motivate the topics throughout, and a wide range of exercises help students to develop their problem-solving and critical thinking skills.
Angel, Abbott, and Runde present the material in a way that is clear and accessible to non-math majors. The text includes a wide variety of math topics, with contents that are flexible for use in any one- or two-semester Liberal Arts Math course.

Table of Contents

1. Critical Thinking Skills
2. Sets
3. Logic
4. Systems of Numeration
5. Number Theory and the Real Number System
6. Algebra, Graphs, and Functions
7. Systems of Linear Equations and Inequalities
8. The Metric System
9. Geometry
10. Mathematical Systems
11. Consumer Mathematics
12. Probability
13. Statistics
14. Graph Theory
15. Voting and Apportionment



Algebra and Trigonometry, 4/e

Judith A. Beecher, *Indiana University Purdue University Indianapolis*
Judith A. Penna, *Indiana University Purdue University Indianapolis*
Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*

ISBN-10: 0321693981
ISBN-13: 9780321693983
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Basic Approach

Beecher, Penna, and Bittinger's **Algebra and Trigonometry** is known for enabling students to "see the math" through its focus on visualization and early introduction to functions. With the **Fourth Edition**, the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively.

Mid- Mixed Review exercise sets have been added to give students practice in synthesizing the concepts, and new Study Guide summaries provide built-in tools to help them prepare for tests. MyMathLab has been expanded so that the online content is even more integrated with the text's approach, with the addition of Vocabulary, Synthesis, and Mid- Mixed Review exercises from the text, as well as example-based videos created by the authors.

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1. Graphs; Linear Functions and Models
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4. Polynomial and Rational Functions
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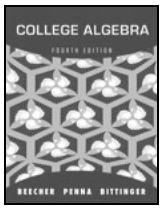
7. Trigonometric Identities, Inverse Functions, and Equations
8. Applications of Trigonometry
9. Systems of Equations and Matrices
10. Analytic Geometry Topics
11. Sequences, Series, and Combinatorics



College Algebra, 4/e

Judith A. Beecher, *Indiana University Purdue University Indianapolis*
Judith A. Penna, *Indiana University Purdue University Indianapolis*
Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*

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Basic Approach

Beecher, Penna, and Bittinger's **College Algebra** is known for enabling students to "see the math" through its focus on visualization and early introduction to functions. With the **Fourth Edition**, the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively.

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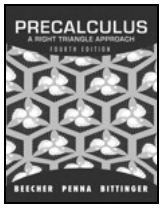

Precalculus: A Right Triangle Approach, 4/e

Judith A. Beecher, *Indiana University Purdue University Indianapolis*
Judith A. Penna, *Indiana University Purdue University Indianapolis*
Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*

ISBN-10: 0321693973
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Basic Approach

Beecher, Penna, and Bittinger's **Precalculus: A Right Triangle Approach** is known for enabling students to "see the math" through its focus on visualization and early introduction to functions. With the **Fourth Edition**, the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively.

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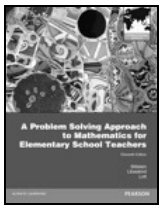
7. Trigonometric Identities, Inverse Functions, and Equations
8. Applications of Trigonometry
9. Systems of Equations and Matrices
10. Analytic Geometry Topics
11. Sequences, Series, and Combinatorics



Problem Solving Approach to Mathematics for Elementary School Teachers, A, 11/e

Rick Billstein, University of Montana
Shlomo Libeskind, University of Oregon
Johnny W. Lott, University of Mississippi

ISBN-10: 0321781813
ISBN-13: 9780321781819
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Basic Approach

More than 350,000 students have prepared for teaching mathematics with A Problem Solving Approach to Mathematics for Elementary School Teachers since its first edition, and it remains the gold standard today. This text not only helps students learn the material by promoting active learning and developing skills and concepts–it also provides an invaluable reference to future teachers by including professional development features and discussions of today's standards.

The Eleventh Edition is streamlined to keep students focused on what is most important. The Common Core State Standards (CCSS) have been integrated into the book to keep current with educational developments. The Annotated Instructor's Edition offers new Integrating Mathematics and Pedagogy (IMAP) video annotations, in addition to activity manual and e-manipulative CD annotations, to make it easier to incorporate active learning into your course. MyMathLab® is available to offer auto-graded exercises, course management, and classroom resources for future teachers.

To see available supplements that will enliven your course with activities, classroom videos, and professional development for future teachers, visit www.pearsonhighered.com/teachingmath

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1. An Introduction to Problem Solving
2. Numeration Systems and Sets
3. Whole Numbers and Their Operations
4. Number Theory
5. Integers
6. Rational Numbers and Proportional Reasoning
7. Rational Numbers as Decimals and Percents
8. Real Numbers and Algebra
9. Probability
10. Data Analysis/Statistics: An Introduction
11. Introductory Geometry
12. Congruence and Similarity with Constructions
13. Congruence and Similarity with Transformations

14. Area, Pythagorean Theorem, and Volume

Developmental Mathematics, 8/e
Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*
Judith A Beecher

ISBN-10: 0321731530
ISBN-13: 9780321731531
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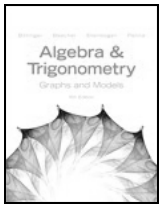
Basic Approach
The **Bittinger Worktext Series** changed the face of developmental education with the introduction of objective-based worktexts that presented math one concept at a time. This approach allowed students to understand the rationale behind each concept before practicing the associated skills and then moving on to the next topic. With this revision, Marv Bittinger continues to focus on building success through conceptual understanding, while also supporting students with quality applications, exercises, and new review and study materials to help them apply and retain their knowledge.

Table of Contents

1. Whole Numbers
2. Fraction Notation
3. Decimal Notation
4. Percent Notation
5. Data, Graphs, and Statistics
6. Geometry
7. Introduction to Real Numbers and Algebraic Expressions
8. Solving Equations and Inequalities
9. Graphs of Linear Equations
10. Polynomials: Operations
11. Polynomials: Factoring
12. Rational Expressions and Equations
13. Systems of Equations
14. Radical Expressions and Equations
15. Quadratic Equations



Algebra and Trigonometry: Graphs and Models and Graphing Calculator Manual Package, 5/e
Marvin L Bittinger
Judith A Beecher
David J. Ellenbogen
Judith A. Penna

ISBN-10: 0321824229
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Basic Approach
The **Graphs and Models** series by Bittinger, Beecher, Ellenbogen, and Penna is known for helping students "see the math" through its focus on visualization and technology. These texts continue to maintain the features that have helped students succeed for years: focus on functions, visual emphasis, side-by-side algebraic and graphical solutions, and real-data applications.

With the **Fifth Edition**, visualization is taken to a new level with technology, and students find more ongoing review. New **interactive figures** in MyMathLab help students allow for hands-on manipulation to gain understanding of difficult concepts. The authors also integrate **smartphone apps** to encourage students to visualize the math. In addition, ongoing review has been added with new **Mid- Mixed Review** exercise sets and new **Study Guide summaries** to help students prepare for tests. **MyMathLab** has been expanded so that the online content is even more integrated with the text's approach, with the addition of new videos and exercise sets, and new functionality.

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1. Graphs, Functions, and Models
2. More on Functions
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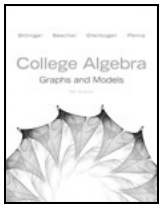
6. The Trigonometric Functions
7. Trigonometric Identities, Inverse Functions, and Equations
8. Applications of Trigonometry
9. Systems of Equations and Matrices
10. Analytic Geometry Topics
11. Sequences, Series, and Combinatorics



College Algebra: Graphs and Models and Graphing Calculator Manual, 5/e

Marvin L. Bittinger, Indiana University Purdue University Indianapolis
Judith A. Beecher
David J. Ellenbogen
Judith A. Penna

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Basic Approach
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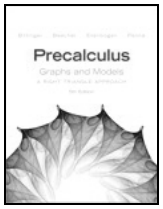
6. Systems of Equations and Matrices
7. Conic Sections
8. Sequences, Series, and Combinatorics



Precalculus: Graphs and Models, 5/e

Marvin L. Bittinger, Indiana University Purdue University Indianapolis
Judith A. Beecher
David J. Ellenbogen
Judith A. Penna

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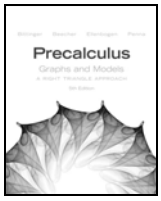
8. Applications of Trigonometry
9. Systems of Equations and Matrices
10. Analytic Geometry Topics
11. Sequences, Series, and Combinatorics



Precalculus: Graphs and Models and Graphing Calculator Manual Package, 5/e

Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*
Judith A. Beecher
David J. Ellenbogen
Judith A. Penna

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9. Systems of Equations and Matrices
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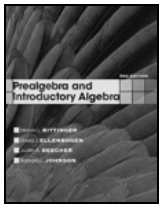

Prealgebra and Introductory Algebra, 3/e

Marvin L. Bittinger
David J. Ellenbogen
Judith A. Beecher, *Indiana University Purdue University Indianapolis*
Barbara L. Johnson, *Indiana University Purdue University at Indianapolis*

ISBN-10: 0321731638
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Basic Approach

The **Bittinger Worktext Series** changed the face of developmental education with the introduction of objective-based worktexts that presented math one concept at a time. This approach allowed students to understand the rationale behind each concept before practicing the associated skills and then moving on to the next topic. With this revision, Marv Bittinger continues to focus on building success through conceptual understanding, while also supporting students with quality applications, exercises, and new review and study materials to help them apply and retain their knowledge.

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1. Whole Numbers
2. Introduction to Integers and Algebraic Expressions
3. Fraction Notation: Multiplication and Division
4. Fraction Notation: Addition, Subtraction, and Mixed Numerals
5. Decimal Notation
6. Percent Notation
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8. Geometry
9. Introduction to Real Numbers and Algebraic Expressions
10. Solving Equations and Inequalities
11. Graphs of Linear Equations
12. Polynomials: Operations
13. Polynomials: Factoring
14. Rational Expressions and Equations
15. Systems of Equations
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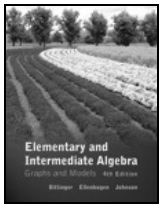

Elementary and Intermediate Algebra: Graphs and Models, 4/e

Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*
David J. Ellenbogen, *Community College of Vermont*
Barbara L. Johnson, *Indiana University Purdue University at Indianapolis*

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Basic Approach
The **Bittinger Graphs and Models Series** helps students "see the math" and learn algebra by making connections between mathematical concepts and their real-world applications. The authors use a variety of tools and techniques—including side-by-side algebraic and graphical solutions and graphing calculators, when appropriate—to engage and motivate all types of learners. Abundant applications, many of which use real data, provide a context for learning and understanding the math.

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1. Introduction to Algebraic Expressions
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11. Quadratic Functions and Equations
12. Exponential Functions and Logarithmic Functions
13. Conic Sections
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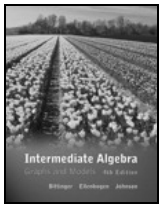

Intermediate Algebra: Graphs and Models, 4/e

Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*
David J. Ellenbogen, *Community College of Vermont*
Barbara L. Johnson, *Indiana University Purdue University at Indianapolis*

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Basic Approach
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10. Conic Sections
11. Sequences, Series, and the Binomial Theorem

Prealgebra, 6/e

Marvin L. Bittinger, *Indiana University Purdue University Indianapolis*
David J. Ellenbogen, *Community College of Vermont*
Barbara L. Johnson, *Indiana University Purdue University at Indianapolis*

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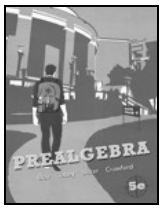
7. Ratio and Proportion
8. Percent Notation
9. Geometry and Measurement
10. Exponents and Polynomials



Prealgebra, 5/e

Jamie Blair, *Orange Coast College*
John S Tobey, *North Shore Community College*
Jeffrey L. Slater, *North Shore Community College*
Jennifer Crawford, *Normandale Community College*

ISBN-10: 0321756452
ISBN-13: 9780321756459
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Basic Approach
The **Tobey/Slater/Blair/Crawford series** builds essential skills one at a time by breaking the mathematics down into manageable pieces. This practical "building block" organization makes it easy for students to understand each topic and gain confidence as they move through each section. Students will find many opportunities to check and reinforce their understanding of concepts throughout the text and its MyMathLab course. With this revision, the author team has added a new Math Coach feature that provides students with an office hour experience by helping them to avoid commonly made mistakes. With Tobey/Slater/Blair/Crawford, students have a tutor, a study companion, and now a coach, with them every step of the way.

Table of Contents

1. Whole Numbers and Introduction to Algebra
2. Integers
3. Introduction to Equations and Algebraic Expressions
4. Fractions, Ratio, and Proportion
5. Operations on Fractional Expressions
6. Polynomials
7. Solving Equations
8. Decimals and Percents
9. Graphing and Statistics
10. Measurement and Geometric Figures

Algebra for College Students, 7/e

Robert F. Blitzer, *Miami-Dade Community College*

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Basic Approach
The Blitzer Algebra Series engages readers with thought-provoking, friendly, and fun applications that show students how math is relevant to their everyday lives. With this revision, Bob Blitzer has updated the applications throughout the text, and the new Blitzer MyMathLab course includes more coverage of the textbook application exercises. This revision also features additional study skills support and an expanded support program that includes the new Learning Guide.

Intermediate Algebra for College Students, 6/e

Robert F. Blitzer, Miami-Dade Community College

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Basic Approach

The Blitzer Algebra Series engages readers with thought-provoking, friendly, and fun applications that show students how math is relevant to their everyday lives. With this revision, Bob Blitzer has updated the applications throughout the text, and the new Blitzer MyMathLab course includes more coverage of the textbook application exercises. This revision also features additional study skills support and an expanded support program that includes the new Learning Guide.

Table of Contents

1. Algebra, Mathematical Models, and Problem Solving
2. Functions and Linear Functions
3. Systems of Linear Equations
4. Inequalities and Problem Solving
5. Polynomials, Polynomial Functions, and Factoring
6. Rational Expressions, Functions, and Equations
7. Radicals, Radical Functions, and Rational Exponents
8. Quadratic Equations and Functions
9. Exponential and Logarithmic Functions
10. Conic Sections and Systems of Nonlinear Equations
11. Sequences, Series, and the Binomial Theorem

Introductory & Intermediate Algebra for College Students, 4/e

Robert F. Blitzer, Miami-Dade Community College

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Basic Approach

The Blitzer Algebra Series engages readers with thought-provoking, friendly, and fun applications that show students how math is relevant to their everyday lives. With this revision, Bob Blitzer has updated the applications throughout the text, and the new Blitzer MyMathLab course includes more coverage of the textbook application exercises. This revision also features additional study skills support and an expanded support program that includes the new Learning Guide.

Introductory Algebra for College Students, 6/e

Robert F. Blitzer, Miami-Dade Community College

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Basic Approach

The Blitzer Algebra Series engages readers with thought-provoking, friendly, and fun applications that show students how math is relevant to their everyday lives. With this revision, Bob Blitzer has updated the applications throughout the text, and the new Blitzer MyMathLab course includes more coverage of the textbook application exercises. This revision also features additional study skills support and an expanded support program that includes the new Learning Guide.

Table of Contents

1. Variables, Real Numbers, and Mathematical Models
2. Linear Equations and Inequalities in One Variable
3. Linear Equations and Inequalities in Two Variables
4. Systems of Linear Equations and Inequalities
5. Exponents and Polynomials
6. Factoring Polynomials
7. Rational Expressions
8. Roots and Radicals
9. Quadratic Equations and Introduction to Functions

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Linear Algebra with Applications, 5/e

Otto Bretscher

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ISBN-13: 9780321796974
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Basic Approach

Offering the most geometric presentation available, **Linear Algebra with Applications, Fourth Edition** emphasizes linear transformations as a unifying theme. This elegant textbook combines a user-friendly presentation with straightforward, lucid language to clarify and organize the many techniques and applications of linear algebra. Exercises and examples make up the heart of the text, with abstract exposition kept to a minimum. Extensive problem sets keep students involved in the material, while genuine applications for a broad range of sciences prepares them for the methods and models of contemporary scientists. In addition, the wealth and variety of exercise sets enable instructors to design a course to best suit the goals and needs of their students. This revision reflects careful review and appropriate changes to the wording of each idea, while preserving the content structure of the previous edition.

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Calculus for Scientists and Engineers, 1/e

William Briggs, University of Colorado at Denver
Lyle Cochran, Whitworth University
Bernard Gillett, University of Colorado at Boulder

ISBN-10: 0321782135
ISBN-13: 9780321782137
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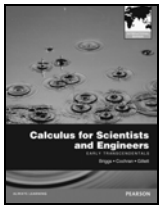
Basic Approach

For a three-semester or four-quarter calculus course covering single variable and multivariable calculus for mathematics, engineering, and science majors.
Briggs/Cochran is the most successful new calculus series published in the last two decades. The authors' decades of teaching experience resulted in a text that reflects how students generally use a textbook–i.e., they start in the exercises and refer back to the narrative for help as needed. The text therefore builds from a foundation of meticulously crafted exercise sets, then draws students into the narrative through writing that reflects the voice of the instructor, examples that are stepped out and thoughtfully annotated, and figures that are designed to teach rather than simply supplement the narrative. The authors appeal to students' geometric intuition to introduce fundamental concepts, laying a foundation for the rigorous development that follows.
To further support student learning, the MyMathLab course features an eBook with 700 Interactive Figures that can be manipulated to shed light on key concepts. In addition, the Instructor's Resource Guide and Test Bank features quizzes, test items, lecture support, guided projects, and more.
This book is an expanded version of Calculus: Early Transcendentals by the same authors, with an entire devoted to differential equations, additional sections on other topics, and additional exercises in most sections. See the "Features" section for more details.

Table of Contents

1. Functions
2. Limits
3. Derivatives
4. Applications of the Derivative
5. Integration
6. Applications of Integration
7. Logarithmic and Exponential Functions
8. Integration Techniques
9. Differential Equations
10. Sequences and Infinite Series
11. Power Series
12. Parametric and Polar Curves
13. Vectors and Vector-Valued Functions
14. Functions of Several Variables
15. Multiple Integration
16. Vector Calculus



Calculus for Scientists and Engineers: Early Transcendentals, 1/e

William Briggs, University of Colorado at Denver
Lyle Cochran
Bernard Gillett, University of Colorado at Boulder

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Basic Approach
For a three-semester or four-quarter calculus course covering single variable and multivariable calculus for mathematics, engineering, and science majors.
Briggs/Cochran is the most successful new calculus series published in the last two decades. The authors' decades of teaching experience resulted in a text that reflects how students generally use a textbook–i.e., they start in the exercises and refer back to the narrative for help as needed. The text therefore builds from a foundation of meticulously crafted exercise sets, then draws students into the narrative through writing that reflects the voice of the instructor, examples that are stepped out and thoughtfully annotated, and figures that are designed to teach rather than simply supplement the narrative. The authors appeal to students' geometric intuition to introduce fundamental concepts, laying a foundation for the rigorous development that follows.
To further support student learning, the MyMathLab course features an eBook with 700 Interactive Figures that can be manipulated to shed light on key concepts. In addition, the Instructor's Resource Guide and Test Bank features quizzes, test items, lecture support, guided projects, and more.
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1. Functions
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5. Integration
6. Applications of Integration
7. Integration Techniques
8. Differential Equations
9. Sequences and Infinite Series
10. Power Series
11. Parametric and Polar Curves
12. Vectors and Vector-Valued Functions
13. Functions of Several Variables
14. Multiple Integration
15. Vector Calculus

Prealgebra, 4/e
Tom Carson

ISBN-10: 0321756959
ISBN-13: 9780321756954
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Basic Approach
Tom Carson's **Prealgebra, Fourth Edition** addresses individual learning styles with a complete study system to meet the needs of today's students. Carson's Study System, presented in the "To the Student" section at the front of the text, adapts to the way each student learns, and targeted learning strategies are presented throughout the book to guide students to success. Tom speaks to students in everyday language and walks them through the concepts, explaining not only how to do the math, but also where the concepts come from and why they work.

Table of Contents

1. Whole Numbers
2. Integers
3. Expressions and Polynomials
4. Equations
5. Fractions and Rational Expressions
6. Decimals
7. Ratios, Proportions, and Measurement
8. Percents
9. More with Geometry and Graphs

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Mathematical Proofs: A Transition to Advanced Mathematics, 3/e
Gary Chartrand, Western Michigan University
Albert D. Polimeni, SUNY, College at Fredonia
Ping Zhang, Western Michigan University

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ISBN-13: 9780321797094
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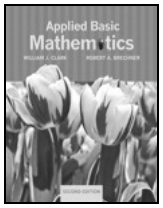

Applied Basic Mathematics, 2/e

William J. Clark, *William Rainey Harper College*
Robert A. Brechner, *Miami-Dade College*

ISBN-10: 0321691822
ISBN-13: 9780321691828
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Basic Approach
By teaching with an emphasis on real world applications, **Applied Basic Mathematics, Second Edition**, offers students a refreshing perspective on basic math! Authors Clark and Brechner open every with an application and close every section with "Apply Your Knowledge" examples. The authors pair this emphasis on applications with learning tools like "Guide Problems and the "Ten Minute ," resulting in a text that encourages students to relate, reinforce, and review as they learn.

Table of Contents

1. Whole Numbers
2. Fractions
3. Decimals
4. Ratio and Proportion
5. Percents
6. Measurement
7. Geometry
8. Statistics and Data Presentation
9. Signed Numbers
10. Introduction to Algebra

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Business Mathematics, 12/e

Gary Clendenen
Stanley A. Salzman, *American River College*
Charles D. Miller, *American River College*

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ISBN-13: 9780132680028
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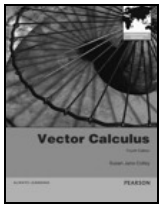
Basic Approach
For courses in business math or the mathematics of business.

This text teaches business math with a strong focus on current issues, real companies, and realistic business scenarios. It covers the full spectrum of basic business math, placing every concept in context with relevant examples. Each begins with an actual company case study that is carried through with examples and exercises. Two realistic cases conclude each , helping students integrate key concepts with real business math challenges. Data and graphs are incorporated throughout. New coverage in this edition includes: the global financial crisis and globalization; personal and government debt; personal savings; and inventory tracking. More examples are provided, and this edition has been edited for greater clarity and simplicity.

Table of Contents

1. Whole Numbers and Decimals
2. Fractions and Mixed Numbers
3. Percent
4. Equations and Formulas
5. Bank Services
6. Payroll
7. Mathematics of Buying
8. Mathematics of Selling
9. Simple Interest
10. Compound Interest and Inflation
11. Annuities, Stocks, and Bonds
12. Business and Consumer Loans
13. Taxes and Insurance
14. Depreciation
15. Financial Statements and Ratios
16. Business Statistics



Vector Calculus, 4/e

Susan J. Colley, *Oberlin College*

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ISBN-13: 9780321818751
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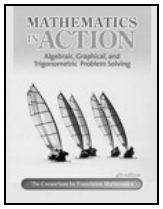
Basic Approach
For undergraduate courses in Multivariable Calculus.

Vector Calculus, Fourth Edition, uses the language and notation of vectors and matrices to teach multivariable calculus. It is ideal for students with a solid background in single-variable calculus who are capable of thinking in more general terms about the topics in the course. This text is distinguished from others by its readable narrative, numerous figures, thoughtfully selected examples, and carefully crafted exercise sets. Colley includes not only basic and advanced exercises, but also mid-level exercises that form a necessary bridge between the two. Instructors will appreciate the mathematical precision, level of rigor, and full selection of topics.

Table of Contents

1. Vectors
2. Differentiation in Several Variables
3. Vector-Valued Functions
4. Maxima and Minima in Several Variables
5. Multiple Integration
6. Line Integrals
7. Surface Integrals and Vector Analysis
8. Vector Analysis in Higher Dimensions



Mathematics in Action: Algebraic, Graphical, and Trigonometric Problem Solving, 4/e

Consortium for Foundation Mathematics

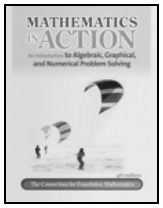
ISBN-10: 0321698614
ISBN-13: 9780321698612
792pp ©2012 Paper

Basic Approach
The third book of the **Mathematics in Action** series, **Algebraic, Graphical, and Trigonometric Problem Solving, Fourth Edition**, illustrates how mathematics arises naturally from everyday situations through updated and revised real-life activities and accompanying practice exercises.

This unique approach helps students increase their knowledge of mathematics, sharpen their problem-solving skills, and raise their overall confidence in their ability to learn. Technology integrated throughout the text helps students interpret real-life data algebraically, numerically, symbolically, and graphically. The active style of this book develops students' mathematical literacy and builds a solid foundation for future study in mathematics and other disciplines.

Table of Contents

1. Function Sense
Cluster 1. Modeling with Functions
Cluster 2. Linear Functions
Cluster 3. Systems of Linear Equations, Inequalities, and Absolute Value Functions
2. The Algebra of Functions
Cluster 1. Addition, Subtraction, and Multiplication of Polynomial Functions
Cluster 2. Composition and Inverses of Functions
3. Exponential and Logarithmic Functions
Cluster 1. Exponential Functions
4. Quadratic and Higher-Order Polynomial Functions
Cluster 1. Introduction to Quadratic Functions
Cluster 2. Curve Fitting and Higher-Order Polynomial Functions
5. Rational and Radical Functions
Cluster 1. Rational Functions
Cluster 2. Radical Functions
6. Introduction to the Trigonometric Functions
Cluster 1. Introducing Sine, Cosine, and Tangent Functions
Cluster 2. Why Are theTrigonometric Functions Called Circular Functions?



Mathematics in Action: An Introduction to Algebraic, Graphical, and Numerical Problem Solving, 4/e

Consortium for Foundation Mathematics

ISBN-10: 0321698606
ISBN-13: 9780321698605
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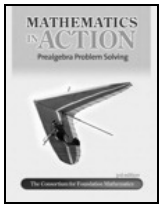
Basic Approach

The second book of the **Mathematics in Action** series, **An Introduction to Algebraic, Graphical, and Numerical Problem Solving, Third Edition**, illustrates how mathematics arises naturally from everyday situations through updated and revised real-life activities and accompanying practice exercises.

This unique approach helps students increase their knowledge of mathematics, sharpen their problem-solving skills, and raise their overall confidence in their ability to learn. Technology integrated throughout the text helps students interpret real-life data algebraically, numerically, symbolically, and graphically. The active style of this book develops students' mathematical literacy and builds a solid foundation for future study in mathematics and other disciplines.

Table of Contents

1. Number Sense
Cluster 1. Introduction to Problem Solving
Cluster 2. Problem Solving with Fractions and Decimals (Rational Numbers)
Cluster 3. Comparisons and Proportional Reasoning
Cluster 4. Problem Solving with Signed Numbers
2. Variable Sense
Cluster 1. Interpreting and Constructing Tables and Graphs
Cluster 2. Solving Equations
Cluster 3. Mathematical Modeling and Problem Solving
3. Function Sense and Linear Functions
Cluster 2. Introduction to Linear Functions
Cluster 3. Problem Solving with Linear Functions
Cluster 4. Systems of Two Linear Equations
4. An Introduction to Nonlinear Problem Solving
Cluster 1. Mathematical Modeling Involving Polynomials
Cluster 2. Problem Solving with Quadratic Equations and Functions
Cluster 3. Other Nonlinear Functions



Mathematics in Action: Prealgebra Problem Solving, 3/e

Consortium for Foundation Mathematics

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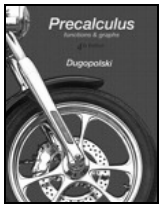
Basic Approach

The first book of the **Mathematics in Action** series, **Prealgebra Problem Solving, Fourth Edition**, illustrates how mathematics arises naturally from everyday situations through updated and revised real-life activities and accompanying practice exercises.

This unique approach helps students increase their knowledge of mathematics, sharpen their problem-solving skills, and raise their overall confidence in their ability to learn. Technology integrated throughout the text helps students interpret real-life data algebraically, numerically, symbolically, and graphically. The active style of this book develops students' mathematical literacy and builds a solid foundation for future study in mathematics and other disciplines.

Table of Contents

1. Whole Numbers
2. Variables and Problem Solving
3. Problem Solving with Integers
4. Problem Solving with Fractions
5. Problem Solving with Mixed Numbers and Decimals
6. Problem Solving with Ratios, Proportions, and Percents
7. Problem Solving with Geometry
8. Problem Solving with Mathematical Models



Precalculus: Functions and Graphs, 4/e

Mark Dugopolski, Southeastern Louisiana University

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ISBN-13: 9780321789433
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Basic Approach

Dugopolski's Precalculus: Functions and Graphs, Fourth Edition gives students the essential strategies they need to make the transition to calculus. The author's emphasis on problem solving and critical thinking is enhanced by the addition of 900 exercises including new vocabulary and cumulative review problems. Students will find carefully placed learning aids and review tools to help them learn the math without getting distracted. Along the way, students see how the algebra connects to their future calculus courses, with tools like Foreshadowing Calculus and Concepts of Calculus.

Table of Contents

P. Prerequisites
1. Equations, Inequalities, and Modeling
2. Functions and Graphs
3. Polynomial and Rational Functions
4. Exponential and Logarithmic Functions
5. The Trigonometric Functions
6. Trigonometric Identities and Conditional Equations
7. Applications of Trigonometry
8. Systems of Equations and Inequalities
9. Matrices and Determinants
10. The Conic Sections
11. Sequences, Series, and Probability

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Differential Equations and Boundary Value Problems: Computing and Modeling, 5/e

C. Henry Edwards
David E. Penney, University of Georgia, Athens

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Basic Approach

For introductory courses in Differential Equations.

This best-selling text by these well-known authors blends the traditional algebra problem solving skills with the conceptual development and geometric visualization of a modern differential equations course that is essential to science and engineering students. It reflects the new qualitative approach that is altering the learning of elementary differential equations, including the wide availability of scientific computing environments like Maple, Mathematica, and MATLAB. Its focus balances the traditional manual methods with the new computer-based methods that illuminate qualitative phenomena and make accessible a wider range of more realistic applications. Seldom-used topics have been trimmed and new topics added: it starts and ends with discussions of mathematical modeling of real-world phenomena, evident in figures, examples, problems, and applications throughout the text.

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Differential Equations: Computing and Modeling, 5/e

Henry Edwards
David Penney

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ISBN-13: 9780321816252
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Basic Approach

For introductory courses in Differential Equations.

This text provides the conceptual development and geometric visualization of a modern differential equations course that is still essential to science and engineering students. It reflects the new emphases that permeate the learning of elementary differential equations, including the wide availability of scientific computing environments like Maple, Mathematica, and MATLAB; its focus has shifted from the traditional manual methods to new computer-based methods that illuminate qualitative phenomena and make accessible a wider range of more realistic applications. Seldom-used topics have been trimmed and new topics added: it starts and ends with discussions of mathematical modeling of real-world phenomena, evident in figures, examples, problems, and applications throughout the text.

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Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5/e

Richard Haberman, *Southern Methodist University*

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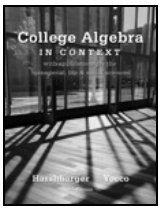


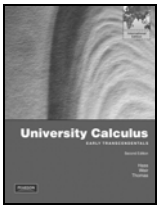
College Algebra in Context, 4/e

Ronald J. Harshbarger, *University of South Carolina - Beaufort*
Lisa Yocco

ISBN-10: 0321756266
ISBN-13: 9780321756268
720pp ©2013 Cloth

Basic Approach

College Algebra in Context, Fourth Edition is ideal for students majoring in business, social sciences, and life sciences. The authors use modeling, applications, and real-data problems to develop skills, giving students the practice they need to become adept problem solvers in their future courses and careers.
This revision maintains the authors' focus on applying math in the real world through updated real-data applications. Features such as **Group Activities** and **Extended Applications** promote collaborative learning, improve communication and research skills, and foster critical thinking. MyMathLab has increased exercise coverage, pre-built sample assignments, and Ready-to-Go course options that make it easier to get started with online homework.



University Calculus, Early Transcendentals, 2/e

Joel Hass, *University of California, Davis*
Maurice D. Weir, *Naval Postgraduate School*
George B. Thomas, *Massachusetts Institute of Technology*

ISBN-10: 0321753879
ISBN-13: 9780321753878
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Basic Approach

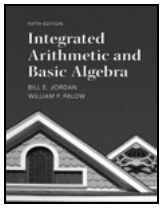
This text is designed for a three-semester or four-quarter calculus course (math, engineering, and science majors).

University Calculus, Early Transcendentals, Second Edition is the ideal choice for professors who want a streamlined text with plenty of exercises. This text helps students successfully generalize and apply the key ideas of calculus through clear and precise explanations, thoughtfully chosen examples, and superior exercise sets. This text offers the right mix of basic, conceptual, and challenging exercises, along with meaningful applications. This significant revision features more examples, more mid-level exercises, more figures, improved conceptual flow, and the best in technology for learning and teaching.

The text is available with a robust **MyMathLab**® course–an online homework, tutorial, and study solution designed for today's students. In addition to interactive multimedia features like Java™ applets and animations, thousands of MathXL® exercises that reflect the richness of those in the text are available for students.

Table of Contents

1. Functions
2. Limits and Continuity
3. Differentiation
4. Applications of Derivatives
5. Integration
6. Applications of Definite Integrals
7. Integrals and Transcendental Functions
8. Techniques of Integration
9. Infinite Sequences and Series
10. Parametric Equations and Polar Coordinates
11. Vectors and the Geometry of Space
12. Vector-Valued Functions and Motion in Space
13. Partial Derivatives
14. Multiple Integrals
15. Integration in Vector Fields
16. First-Order Differential Equations (Online)
17. Second-Order Differential Equations (Online)



Integrated Arithmetic and Basic Algebra, 5/e

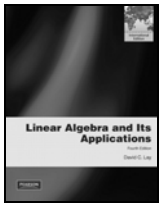
Bill Jordan
William P. Palow, Miami-Dade College

ISBN-10: 0321747380
ISBN-13: 9780321747389
960pp ©2013 Paper

Basic Approach
Integrated Arithmetic and Basic Algebra, Fifth Edition, integrates arithmetic and algebra to allow students to see algebra as a natural extension of arithmetic. Rather than separating these two subjects, this text makes the connections between arithmetic and algebra evident to the student. As a result, students see how concepts are interrelated and are better prepared for future courses.

Table of Contents

R. Basic Ideas
1. Adding and Subtracting Integers and Polynomials
2. Laws of Exponents, Products and Quotients of Integers and Polynomials
3. Linear Equations and Inequalities
4. Graphing Linear Equations and Inequalities
5. Factors, Divisors, and Factoring
6. Multiplication and Division of Rational Numbers and Expressions
7. Addition and Subtraction of Rational Numbers and Expressions
8. Ratios, Percents, and Applications
9. Systems of Linear Equations
10. Roots and Radicals
11. Solving Quadratic Equations



Linear Algebra and Its Applications, 4/e

David C. Lay, *University of Maryland*

ISBN-10: 0321623355
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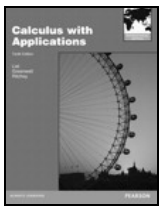
576pp ©2012 Paper

Basic Approach
Linear algebra is relatively easy for students during the early stages of the course, when the material is presented in a familiar, concrete setting. But when abstract concepts are introduced, students often hit a brick wall. Instructors seem to agree that certain concepts (such as linear independence, spanning, subspace, vector space, and linear transformations), are not easily understood, and require time to assimilate. Since they are fundamental to the study of linear algebra, students' understanding of these concepts is vital to their mastery of the subject. David Lay introduces these concepts early in a familiar, concrete R^n setting, develops them gradually, and returns to them again and again throughout the text so that when discussed in the abstract, these concepts are more accessible.

Table of Contents

1. Linear Equations in Linear Algebra
2. Matrix Algebra
3. Determinants
4. Vector Spaces
5. Eigenvalues and Eigenvectors
6. Orthogonality and Least Squares
7. Symmetric Matrices and Quadratic Forms
8. The Geometry of Vector Spaces
9. Optimization (Online Only)
10. Finite-State Markov Chains (Online Only)



Calculus with Applications, 10/e

Margaret L. Lial, *American River College*
Raymond N. Greenwell, *Hofstra University*
Nathan P. Ritchey, *Youngstown State University*

ISBN-10: 0321778685
ISBN-13: 9780321778680
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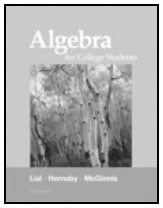
Basic Approach
Calculus with Applications, Tenth Edition (also available in a **Brief Version** containing s 1–9) by Lial, Greenwell, and Ritchey, is our most applied text to date, making the math relevant and accessible for students of

business, life science, and social sciences. Current applications, many using real data, are incorporated in numerous forms throughout the book, preparing students for success in their professional careers. With this edition, students will find new ways to get involved with the material, such as "Your Turn" exercises and "Apply It" vignettes that encourage active participation. The MyMathLab® course for the text provides additional learning resources for students, such as video tutorials, algebra help, step-by-step examples, and graphing calculator help. The course also features many more assignable exercises than the previous edition.

Table of Contents

R. Algebra Reference
1. Linear Functions
2. Nonlinear Functions
3. The Derivative
4. Calculating the Derivative
5. Graphs and the Derivative
6. Applications of the Derivative
7. Integration
8. Further Techniques and Applications of Integration
9. Multivariable Calculus
10. Differential Equations
11. Probability and Calculus
12. Sequences and Series
13. The Trigonometric Functions



Algebra for College Students, 7/e

Margaret L. Lial, *American River College*
John Hornsby, *University of New Orleans*
Terry McGinnis

ISBN-10: 0321715403
ISBN-13: 9780321715401
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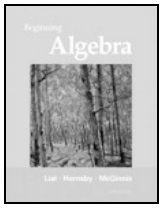
Basic Approach
Is there anything more beautiful than an "A" in Algebra? Not to the Lial team! Marge Lial, John Hornsby, and Terry McGinnis write their textbooks and accompanying resources with one goal in mind: giving students and teachers all the tools they need to achieve success.

With this revision, the Lial team has further refined the presentation and exercises throughout the text. They offer several exciting new resources for students and teachers that will provide extra help when needed, regardless of the learning environment (classroom, lab, hybrid, online, etc)—new study skills activities in the text, an expanded video program available in MyMathLab and more!

Table of Contents

1 Review of the Real Number System
2 Linear Equations, Inequalities, and Applications
3 Graphs, Linear Equations, and Functions
4 Systems of Linear Equations
5 Exponents, Polynomials, and Polynomial Functions
6 Factoring
7 Rational Expressions and Functions
8 Roots, Radicals, and Root Functions
9 Quadratic Equations and Inequalities
10 Additional Graphs of Functions and Relations
11 Inverse, Exponential, and Logarithmic Functions
12 Polynomial and Rational Functions
13 Conic Sections and Nonlinear Systems
14 Further Topics in Algebra



Beginning Algebra, 11/e

Margaret L. Lial, *American River College*
John Hornsby, *University of New Orleans*
Terry McGinnis

ISBN-10: 0321673484
ISBN-13: 9780321673480
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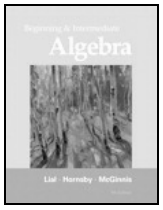
Basic Approach
Is there anything more beautiful than an "A" in Algebra? Not to the Lial team! Marge Lial, John Hornsby, and Terry McGinnis write their textbooks and accompanying resources with one goal in mind: giving students and teachers all the tools they need to achieve success.

With this revision, the Lial team has further refined the presentation and exercises throughout the text. They offer

several exciting new resources for students and teachers that will provide extra help when needed, regardless of the learning environment (classroom, lab, hybrid, online, etc)–new study skills activities in the text, an expanded video program available in MyMathLab and on the Video Resources on DVD, and more!

Table of Contents

1 The Real Number System
2 Linear Equations and Inequalities in One Variable
3 Linear Equations and Inequalities in Two Variables; Functions
4 Systems of Linear Equations and Inequalities
5 Exponents and Polynomials
6 Factoring and Applications
7 Rational Expressions and Applications
8 Roots and Radicals
9 Quadratic Equations



Beginning and Intermediate Algebra, 5/e

Margaret L. Lial, *American River College*
John Hornsby, *University of New Orleans*
Terry McGinnis

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ISBN-13: 9780321715425
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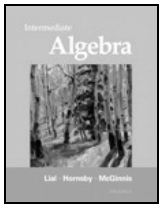
Basic Approach
Is there anything more beautiful than an "A" in Algebra? Not to the Lial team! Marge Lial, John Hornsby, and Terry McGinnis write their textbooks and accompanying resources with one goal in mind: giving students and teachers all the tools they need to achieve success.

With this revision, the Lial team has further refined the presentation and exercises throughout the text. They offer several exciting new resources for students and teachers that will provide extra help when needed, regardless of the learning environment (classroom, lab, hybrid, online, etc)–new study skills activities in the text, an expanded video program available in MyMathLab and on the Video Resources on DVD, and more!

Table of Contents

1 The Real Number System
2 Linear Equations and Inequalities in One Variable
3 Linear Equations in Two Variables
4 Exponents and Polynomials
5 Factoring and Applications
6 Rational Expressions and Applications
7 Graphs, Linear Equations, and Functions
8 Systems of Linear Equations
9 Inequalities and Absolute Value
10 Roots, Radicals, and Root Functions
11 Quadratic Equations, Inequalities, and Functions
12 Inverse, Exponential, and Logarithmic Functions
13 Nonlinear Functions, Conic Sections, and Nonlinear Systems
14 Sequences and Series



Intermediate Algebra, 11/e

Margaret L. Lial, *American River College*
John Hornsby, *University of New Orleans*
Terry McGinnis

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Basic Approach
Is there anything more beautiful than an "A" in Algebra? Not to the Lial team! Marge Lial, John Hornsby, and Terry McGinnis write their textbooks and accompanying resources with one goal in mind: giving students and teachers all the tools they need to achieve success.

With this revision, the Lial team has further refined the presentation and exercises throughout the text. They offer several exciting new resources for students and teachers that will provide extra help when needed, regardless of the learning environment (classroom, lab, hybrid, online, etc)–new study skills activities in the text, an expanded video program available in MyMathLab and on the Video Resources on DVD, and more!

Table of Contents
Study Skills: Using Your Math Textbook

1. Review of the Real Number System
2. Linear Equations, Inequalities, and Applications

3. Graphs, Linear Equations, and Functions
4. Systems of Linear Equations
5. Exponents, Polynomials, and Polynomial Functions
6. Factoring
7. Rational Expressions and Functions
8. Roots, Radicals, and Root Functions
9. Quadratic Equations, Inequalities, and Functions
10. Inverse, Exponential, and Logarithmic Functions
11. Nonlinear Functions, Conic Sections, and Nonlinear Systems
12. Sequences and Series

Precalculus, 5/e

Margaret L. Lial, American River College
John Hornsby, University of New Orleans
David I. Schneider, University of Maryland

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Basic Approach

Precalculus, Fifth Edition, by Lial, Hornsby, Schneider, and Daniels, engages and supports students in the learning process by developing both the conceptual understanding and the analytical skills necessary for success in mathematics. With the **Fifth Edition**, the authors recognize that students are learning in new ways, and that the classroom is evolving. The Lial team is now offering a new suite of resources to support today's instructors and students.

New co-author Callie Daniels has experience in all classroom types including traditional, hybrid and online courses, which has driven the new MyMathLab features. For example, **MyNotes** provide structure for student note-taking, and **Interactive Summaries** allow students to quiz themselves in interactive examples on key vocabulary, symbols and concepts. Daniels' experience, coupled with the long-time successful approach of the Lial series, has helped to more tightly integrate the text with online learning than ever before.

Table of Contents

R. Review of Basic Concepts
1. Equations and Inequalities
2. Graphs and Functions
3. Polynomial and Rational Functions
4. Inverse, Exponential, and Logarithmic Functions
5. Trigonometric Functions
6. The Circular Functions and Their Graphs
7. Trigonometric Identities and Equations
8. Applications of Trigonometry
9. Systems and Matrices
10. Analytic Geometry
11. Further Topics in Algebra

College Algebra, 11/e

Margaret L. Lial, American River College
John Hornsby, University of New Orleans
David I. Schneider, University of Maryland
Callie Daniels

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ISBN-13: 9780321671790
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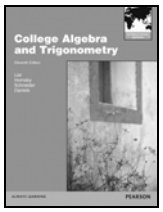
Basic Approach

College Algebra, Eleventh Edition, by Lial, Hornsby, Schneider, and Daniels, engages and supports students in the learning process by developing both the conceptual understanding and the analytical skills necessary for success in mathematics. With the Eleventh Edition, the authors recognize that students are learning in new ways, and that the classroom is evolving. The Lial team is now offering a new suite of resources to support today's instructors and students.
New co-author Callie Daniels has experience in all classroom types including traditional, hybrid and online courses, which has driven the new MyMathLab features. For example, MyNotes provide structure for student note-taking, and Interactive Summaries allow students to quiz themselves in interactive examples on key vocabulary, symbols and concepts. Daniels' experience, coupled with the long-time successful approach of the Lial series, has helped to more tightly integrate the text with online learning than ever before.

Table of Contents

R. Review of Basic Concepts.
1. Equations and Inequalities
2. Graphs and Functions
3. Polynomial and Rational Functions.

4. Inverse, Exponential, and Logarithmic Functions.
5. Systems and Matrices
6. Analytic Geometry
7. Further Topics in Algebra



College Algebra and Trigonometry, 5/e

Margaret L. Lial, American River College
John Hornsby, University of New Orleans
David I. Schneider, University of Maryland
Callie Daniels

ISBN-10: 0321824660
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Basic Approach

College Algebra and Trigonometry, Fifth Edition, by Lial, Hornsby, Schneider, and Daniels, engages and supports students in the learning process by developing both the conceptual understanding and the analytical skills necessary for success in mathematics. With the Fifth Edition, the authors recognize that students are learning in new ways, and that the classroom is evolving. The Lial team is now offering a new suite of resources to support today's instructors and students.
New co-author Callie Daniels has experience in all classroom types including traditional, hybrid and online courses, which has driven the new MyMathLab features. For example, MyNotes provide structure for student note-taking, and Interactive Summaries allow students to quiz themselves in interactive examples on key vocabulary, symbols and concepts. Daniels' experience, coupled with the long-time successful approach of the Lial series, has helped to more tightly integrate the text with online learning than ever before.

Table of Contents

R. Review of Basic Concepts
1. Equations and Inequalities
2. Graphs and Functions
3. Polynomial and Rational Functions
4. Inverse, Exponential, and Logarithmic Functions
5. Trigonometric Functions
6. The Circular Functions and Their Graphs
7. Trigonometric Identities and Equations
8. Applications of Trigonometry
9. Systems and Matrices
10. Analytic Geometry
11. Further Topics in Algebra

Trigonometry, 10/e

Margaret L. Lial, American River College
John Hornsby, University of New Orleans
David I. Schneider, University of Maryland
Callie Daniels

ISBN-10: 0321671775
ISBN-13: 9780321671776
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Basic Approach

Trigonometry, Tenth Edition, by Lial, Hornsby, Schneider, and Daniels, engages and supports students in the learning process by developing both the conceptual understanding and the analytical skills necessary for success in mathematics. With the **Tenth Edition**, the authors recognize that students are learning in new ways, and that the classroom is evolving. The Lial team is now offering a new suite of resources to support today's instructors and students.
New co-author Callie Daniels has experience in all classroom types including traditional, hybrid and online courses, which has driven the new MyMathLab features. For example, **MyNotes** provide structure for student note-taking, and **Interactive Summaries** allow students to quiz themselves in interactive examples on key vocabulary, symbols and concepts. Daniels' experience, coupled with the long-time successful approach of the Lial series, has helped to more tightly integrate the text with online learning than ever before.

Table of Contents

1. Trigonometric Functions
2. Acute Angles and Right Triangles
3. Radian Measure and the Unit Circle
4. Graphs of the Circular Functions
5. Trigonometric Identities
6. Inverse Circular Functions and Trigonometric Equations
7. Applications of Trigonometry and Vectors
8. Complex Numbers, Polar Equations, and Parametric Equations

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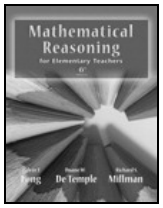

Mathematical Reasoning for Elementary School Teachers, 6/e

Calvin T. Long, *Washington State University*
Duane W. DeTemple, *Washington State University*
Richard S. Millman, *University of Kentucky*

ISBN-10: 0321693124
ISBN-13: 9780321693129
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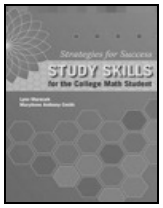
Basic Approach

Mathematical Reasoning for Elementary Teachers presents the mathematical knowledge needed for teaching, with an emphasis on *why* future teachers are learning the content as well as *when and how* they will use it in the classroom.

The **Sixth Edition** has been streamlined throughout to make it easier to focus on the important concepts. The authors continue to make the course relevant for future teachers by adding new features such as questions connected to School Book Pages; enhancing hallmark features such as Responding to Students exercises; and making the text a better study tool through the redesigned Summaries. For this edition, MyMathLab has been expanded to include new exercises, the integration of IMAP videos, and additional resources to make it easier to assign homework and provide resources to students.

Table of Contents

1. Thinking Critically
2. Sets and Whole Numbers
3. Numeration and Computation
4. Number Theory
5. Integers
6. Fractions and Rational Numbers
7. Decimals, Real Numbers, and Proportional Reasoning
8. Algebraic Reasoning and Connections with Geometry
9. Geometric Figures
10. Measurement: Length, Area, and Volume
11. Transformations, Symmetries, and Tilings
12. Congruence, Constructions, and Similarity
13. Statistics: The Interpretation of Data
14. Probability



Strategies For Success: Study Skills for the College Math Student, 1/e

Lynn Marecek
MaryAnne Anthony-Smith

ISBN-10: 0321796381
ISBN-13: 9780321796387
60pp ©2012 Paper

Basic Approach

Strategies for Success provides a series of study skills activities designed to foster student success in college mathematics. Lynn Marecek and MaryAnne Anthony-Smith encourage students to take an active approach in determining what they need to do to become successful math students. These **proven, class-tested activities** have been developed over many semesters from the authors' firsthand experience with their own students.

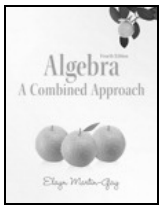
This workbook contains 34 activities, in ready-to-use worksheet format. The activities can be used in several ways—individual work, group work, or large group discussion. They can be used in class or assigned as homework. An accompanying **Instructor's Guide** is available that contains instructions and implementation strategies for each activity to help instructors easily integrate **Strategies for Success** into their classes.

Some of the topics covered include Notebook Preparation, Reading a Math Textbook, Successful Student Behavior, Time Management, Test Preparation Skills, Study Group Ideas, and much more.

Table of Contents

1. Syllabus Search
2. Notebook Preparation
3. Reading the Textbook-Part I
4. Reading the Textbook-Part II
5. Math Autobiography
6. On Time and Ready To Go!
7. Test Preparation Skills
8. Test Stress Reduction
9. Test Taking Skills
10. Post Test Check up
11. Test Analysis
12. Successful Student Behavior
13. Textbook Tour
14. Time Management

15. Homework Skills
16. Mid-term Check up-Part I
17. Mid-term Check up-Part II
18. Attendance
19. Study Group
20. Goals
21. Thoughts in Charge!
22. Neutralize Negative Thoughts
23. Intervention Strategies for Negative Thoughts
24. Can You Hear Me Now???
25. A Gift to Yourself
26. Math Plan
27. The End is in Sight!
28. Excuses! Excuses!
29. Support from Family and Friends
30. Stay on Campus - Stay on Task!
31. Final Exam Prep
32. Grade Check up
33. Look Back, Look Forward
34. Reward Yourself!



Algebra: A Combined Approach, 4/e

Elayn Martin-Gay, *University of New Orleans, Lakefront*

ISBN-10: 0321726391
ISBN-13: 9780321726391
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Basic Approach

Elayn Martin-Gay firmly believes that every student can succeed, and her developmental math textbooks and video resources are motivated by this belief. **Algebra: A Combined Approach, Fourth Edition** was written to provide students with a solid foundation in algebra and help them effectively transition to their next mathematics course. The new edition offers new resources like the **Student Organizer** and now includes **Student Resources** in the back of the book to help students on their quest for success.

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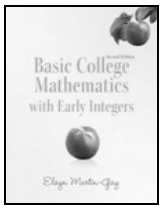
R Prealgebra Review
1 Real Numbers and Introduction to Algebra
2 Equations, Inequalities, and Problem Solving
3 Graphing Equations and Inequalities
4 Systems of Equations
5 Exponents and Polynomials
6 Factoring Polynomials
7 Rational Expressions
8 Graphs and Functions
9 Systems of Equations and Inequalities and Variation
10 Rational Exponents, Radicals, and Complex Numbers
11 Quadratic Equations and Functions
12 Exponential and Logarithmic Functions
13 Conic Sections



Basic College Mathematics with Early Integers, 2/e

Elayn Martin-Gay, *University of New Orleans, Lakefront*

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ISBN-13: 9780321726438
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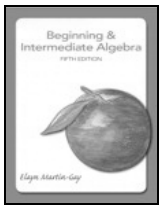
Basic Approach

Elayn Martin-Gay firmly believes that every student can succeed, and her developmental math textbooks and video resources are motivated by this belief. **Basic College Mathematics with Early Integers, Second Edition** was written to help students effectively make the transition from arithmetic to algebra. The new edition offers new resources like the **Student Organizer** and now includes **Student Resources** in the back of the book to help students on their quest for success.

Table of Contents

1. The Whole Numbers
2. Integers and Introduction to Variables

3. Fractions
4. Decimals
5. Ratio, Proportion, and Measurement
6. Percent
7. Statistics and Probability
8. Introduction to Algebra
9. Geometry



Beginning & Intermediate Algebra, 5/e
Elayn Martin-Gay

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ISBN-13: 9780321785121
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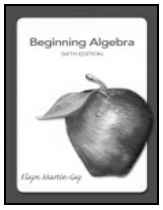
Basic Approach
Elayn Martin-Gay's developmental math textbooks and video resources are motivated by her firm belief that every student can succeed. Martin-Gay's focus on the student shapes her clear, accessible writing, inspires her constant pedagogical innovations, and contributes to the popularity and effectiveness of her video resources. This revision of Martin-Gay's algebra series continues her focus on students and what they need to be successful. Martin-Gay also strives to provide the highest level of instructor and adjunct support.



Beginning Algebra, 6/e
Elayn Martin-Gay

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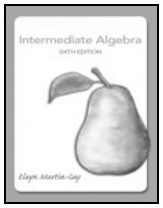
Basic Approach
Elayn Martin-Gay's developmental math program is based on her firm belief that every student can succeed. A variety of print and media resources provide plenty of flexibility for instructors to choose the right combination of resources for their students. Martin-Gay's **focus on the student** shapes her clear, accessible writing, inspires her constant pedagogical innovations, and contributes to the popularity and effectiveness of her print and media resources. With this revision, the Martin-Gay program has been enhanced with a new MyMathLab design that encourages students to use the text, video resources, and Student Organizer as an integrated learning system.

Table of Contents

1. Review of Real Numbers
2. Equations, Inequalities, and Problem Solving
3. Graphing
4. Solving Systems of Linear Equations and Inequalities
5. Exponents and Polynomials
6. Factoring Polynomials
7. Rational Expressions
8. Roots and Radicals
9. Quadratic Equations



Intermediate Algebra, 6/e
Elayn Martin-Gay

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ISBN-13: 9780321785046
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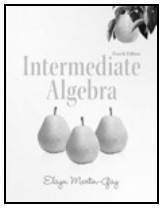
Basic Approach
Elayn Martin-Gay's developmental math textbooks and video resources are motivated by her firm belief that every student can succeed. Martin-Gay's focus on the student shapes her clear, accessible writing, inspires her constant pedagogical innovations, and contributes to the popularity and effectiveness of her video resources. This revision of Martin-Gay's algebra series continues her focus on students and what they need to be successful. Martin-Gay also strives to provide the highest level of instructor and adjunct support.



Intermediate Algebra, 4/e

Elayn Martin-Gay, *University of New Orleans, Lakefront*

ISBN-10: 0321726375
ISBN-13: 9780321726377
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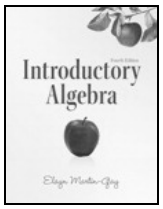
Basic Approach

Elayn Martin-Gay firmly believes that every student can succeed, and her developmental math textbooks and video resources are motivated by this belief. **Intermediate Algebra, Fourth Edition** was written to provide students with a solid foundation in algebra and to help them transition to their next mathematics course. The new edition offers new resources like the **Student Organizer** and now includes **Student Resources** in the back of the book to help students on their quest for success.

Table of Contents

1 Real Numbers and Algebraic Expressions
2 Equations, Inequalities, and Problem Solving
3 Graphs and Functions
4 Systems of Equations and Inequalities
5 Polynomials and Polynomial Functions
6 Rational Expressions
7 Rational Exponents, Radicals, and Complex Numbers
8 Quadratic Equations and Functions
9 Exponential and Logarithmic Functions
10 Conic Sections



Introductory Algebra, 4/e

Elayn Martin-Gay, University of New Orleans, Lakefront

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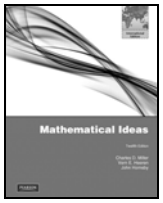
Basic Approach

Elayn Martin-Gay firmly believes that every student can succeed, and her developmental math textbooks and video resources are motivated by this belief. **Introductory Algebra, Fourth Edition** was written to provide students with a solid foundation in algebra and to help students make the transition to intermediate algebra. The new edition offers new resources like the **Student Organizer** and now includes **Student Resources** in the back of the book to help students on their quest for success.

Table of Contents

R Prealgebra Review
1 Real Numbers and Introduction to Algebra
2 Equations, Inequalities, and Problem Solving
3 Exponents and Polynomials
4 Factoring Polynomials
5 Rational Expressions
6 Graphing Equations and Inequalities
7 Systems of Equations
8 Roots and Radicals
9 Quadratic Equations



Mathematical Ideas, 12/e

Charles D. Miller, *American River College*
Vern E. Heeren, *American River College*
John Hornsby, *University of New Orleans*

ISBN-10: 0321757319
ISBN-13: 9780321757319
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Basic Approach

Mathematical Ideas captures the interest of non-majors who take the Liberal Arts Math course by showing how mathematics plays an important role in scenes from popular movies and television. By incorporating John Hornsby's "Math Goes to Hollywood" approach into openers, margin notes, examples, exercises, and resources, this text makes it easy to weave this engaging theme into your course.

The **Twelfth Edition** continues to deliver the superlative writing style, carefully developed examples, and extensive exercise sets that instructors have come to expect. **MyMathLab** continues to evolve with each new

edition, offering expanded online exercise sets, improved instructor resources, and new section-level videos.

Table of Contents

1. The Art of Problem Solving
2. The Basic Concepts of Set Theory
3. Introduction to Logic
4. Numeration Systems
5. Number Theory
6. The Real Numbers and Their Representations
7. The Basic Concepts of Algebra
8. Graphs, Functions, and Systems of Equations and Inequalities
9. Geometry
10. Counting Methods (formerly 11)
11. Probability (formerly 12)
12. Statistics (formerly 13)
13. Personal Financial Management (formerly 14)
14. Trigonometry (formerly Ch. 10)
15. Graph Theory
16. Voting and Apportionment

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Just-in-Time Algebra and Trigonometry for Calculus, 4/e

Guntram Mueller, *University of Massachusetts--Lowell*
Ronald I. Brent, *University of Massachusetts--Lowell*

ISBN-10: 032167104X
ISBN-13: 9780321671042
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Just-in-Time Algebra and Trigonometry for Early Transcendentals Calculus, 4/e

Guntram Mueller, University of Massachusetts--Lowell
Ronald I. Brent, University of Massachusetts--Lowell

ISBN-10: 0321671031
ISBN-13: 9780321671035
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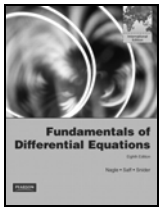
Basic Approach
Designed for Students taking calculus with Early Transcendentals. Strong Algebra and Trigonometry skills are crucial to success in calculus. This text is designed to bolster these skills while students study calculus. As students make their way through the calculus course, this supplemental text shows them the relevant algebra or trigonometry topics and points out potential problem spots. The table of contents is organized so that the algebra and trigonometry topics are arranged in the order in which they are needed for calculus.



Fundamentals of Differential Equations, 8/e

R. Kent Nagle, *Late, University of South Florida*
Edward B. Saff, *Vanderbilt University*
Arthur David Snider, *University of South Florida*

ISBN-10: 032175820X
ISBN-13: 9780321758200
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Basic Approach
Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern applications in science and engineering. Available in two versions, these flexible texts offer the instructor many choices in syllabus design, course emphasis (theory, methodology, applications, and numerical methods), and in using commercially available computer software.

Fundamentals of Differential Equations, Eighth Edition is suitable for a one-semester sophomore- or junior-level course. **Fundamentals of Differential Equations with Boundary Value Problems, Sixth Edition**, contains enough material for a two-semester course that covers and builds on boundary value problems. The Boundary Value Problems version consists of the main text plus three additional s (Eigenvalue Problems and Sturm-Liouville Equations; Stability of Autonomous Systems; and Existence and Uniqueness Theory).

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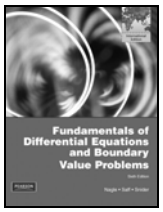
1. Introduction
2. First-Order Differential Equations
3. Mathematical Models and Numerical Methods Involving First Order Equations

4. Linear Second-Order Equations
5. Introduction to Systems and Phase Plane Analysis
6. Theory of Higher-Order Linear Differential Equations
7. Laplace Transforms
8. Series Solutions of Differential Equations
9. Matrix Methods for Linear Systems
10. Partial Differential Equations



Fundamentals of Differential Equations and Boundary Value Problems, 6/e

R. Kent Nagle, *Late, University of South Florida*
Edward B. Saff, *Vanderbilt University*
Arthur David Snider, *University of South Florida*

ISBN-10: 0321758196
ISBN-13: 9780321758194
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Basic Approach

Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern applications in science and engineering. Available in two versions, these flexible texts offer the instructor many choices in syllabus design, course emphasis (theory, methodology, applications, and numerical methods), and in using commercially available computer software.

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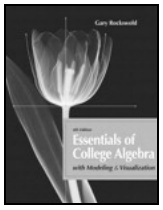
8. Series Solutions of Differential Equations
9. Matrix Methods for Linear Systems
10. Partial Differential Equations
11. Eigenvalue Problems and Sturm-Liouville Equations
12. Stability of Autonomous Systems
13. Existence and Uniqueness Theory



Essentials of College Algebra with Modeling and Visualization, 4/e

Gary K. Rockswold, *Minnesota State University, Mankato*

ISBN-10: 0321715284
ISBN-13: 9780321715289
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Basic Approach

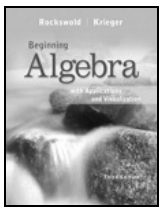
Gary Rockswold teaches algebra in context, answering the question, “Why am I learning this?” By experiencing math through applications, students see how it fits into their lives, and they become motivated to succeed. Rockswold’s focus on conceptual understanding helps students make connections between the concepts, and as a result, students see the bigger picture of math and are prepared for future courses.

This streamlined text–**Essentials of College Algebra with Modeling and Visualization, Fourth Edition**–covers linear, quadratic, nonlinear, exponential, and logarithmic functions and systems of equations and inequalities, which gets to the heart of what students need from this course. A more comprehensive college algebra text is also available.

Table of Contents

1. Introduction to Functions and Graphs
2. Linear Functions and Equations
3. Quadratic Functions and Equations
4. More Nonlinear Functions and Equations
5. Exponential and Logarithmic Functions
6. Systems of Equations and Inequalities

Reference: Basic Concepts from Algebra and Geometry



Beginning Algebra with Applications & Visualization, 3/e

Gary K Rockswold
Terry A Krieger

ISBN-10: 0321773306
ISBN-13: 9780321773302
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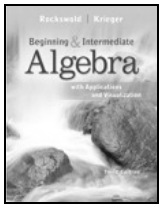
Basic Approach
The **Rockswold/Krieger algebra series** fosters conceptual understanding by using relevant applications and visualization to show students why math matters. It answers the common question "When will I ever use this?" Rockswold teaches the math in context, rather than simply including the applications at the end of the presentation. By seamlessly integrating meaningful applications that include real data and supporting visuals (graphs, tables, charts, colors, and diagrams), students are able to see how math impacts their lives as they learn the concepts. This approach deepens conceptual understanding and better prepares students for future math courses and life.

Table of Contents

1. Introduction to Algebra
2. Linear Equations and Inequalities
3. Graphing Equations
4. Systems of Linear Equations In Two Variables
5. Polynomials and Exponents
6. Factoring Polynomials and Solving Equations
7. Rational Expressions
8. Radical Expressions
9. Quadratic Equations



Beginning and Intermediate Algebra with Applications & Visualization, 3/e

Gary K Rockswold
Terry A Krieger

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Basic Approach
The **Rockswold/Krieger algebra series** fosters conceptual understanding by using relevant applications and visualization to show students why math matters. It answers the common question "When will I ever use this?" Rockswold teaches the math in context, rather than simply including the applications at the end of the presentation. By seamlessly integrating meaningful applications that include real data and supporting visuals (graphs, tables, charts, colors, and diagrams), students are able to see how math impacts their lives as they learn the concepts. This approach deepens conceptual understanding and better prepares students for future math courses and life.

Table of Contents

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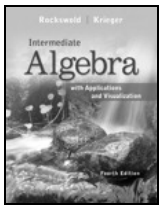
2. Linear Equations and Inequalities
3. Graphing Equations
4. Systems of Linear Equations in Two Variables
5. Polynomials and Exponents
6. Factoring Polynomials and Solving Equations
7. Rational Expressions
8. Introduction to Functions
9. Systems of Linear Equations
10. Radical Expressions and Functions
11. Quadratic Functions and Equations
12. Exponential and Logarithmic Functions
13. Conic Sections
14. Sequences and Series



Intermediate Algebra with Applications & Visualization, 4/e

Gary K Rockswold
Terry A Krieger

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ISBN-13: 9780321773319
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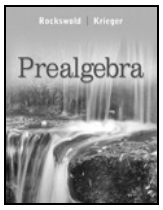
Basic Approach
The **Rockswold/Krieger algebra series** fosters conceptual understanding by using relevant applications and visualization to show students why math matters. It answers the common question "When will I ever use this?" Rockswold teaches the math in context, rather than simply including the applications at the end of the presentation. By seamlessly integrating meaningful applications that include real data and supporting visuals (graphs, tables, charts, colors, and diagrams), students are able to see how math impacts their lives as they learn the concepts. This approach deepens conceptual understanding and better prepares students for future math courses and life.

Table of Contents

1. Real Numbers and Algebra
2. Linear Functions and Models
3. Linear Equations and Inequalities
4. Systems of Linear Equations
5. Polynomial Expressions and Functions
6. Rational Expressions and Functions
7. Radical Expressions and Functions
8. Quadratic Functions and Equations
9. Exponential and Logarithmic Functions
10. Conic Sections
11. Sequences and Series



Prealgebra, 1/e

Gary K. Rockswold, Minnesota State University, Mankato
Terry A. Krieger, Rochester Community and Technical College

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ISBN-13: 9780321567994
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Basic Approach
The **Rockswold/Krieger algebra series** fosters conceptual understanding by using relevant applications and visualization to show students why math matters. It answers the common question "When will I ever use this?" Rockswold teaches the math in context, rather than simply including the applications at the end of the presentation. By seamlessly integrating meaningful applications that include real data and supporting visuals (graphs, tables, charts, colors, and diagrams), students are able to see how math impacts their lives as they learn the concepts. This approach deepens conceptual understanding and better prepares students for future math courses and life.

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1. Whole Numbers
2. Integers
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4. Fractions
5. Decimals
6. Ratios, Proportions, And Measurement
7. Percents
8. Exponents And Polynomials
9. Introduction To Graphing
10. Geometry

Numerical Analysis, 2/e

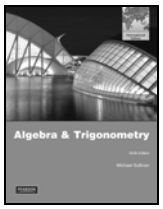
Timothy Sauer, *George Mason University*

ISBN-10: 0321818768
ISBN-13: 9780321818768
672pp ©2012 Paper

Basic Approach
Numerical Analysis, Second Edition, is a modern and readable text for the undergraduate audience. This book covers not only the standard topics but also some more advanced numerical methods being used by computational scientists and engineers—topics such as compression, forward and backward error analysis, and iterative methods of solving equations—all while maintaining a level of discussion appropriate for undergraduates. Each contains a Reality Check, which is an extended exploration of relevant application areas that can launch individual or team projects. MATLAB® is used throughout to demonstrate and implement numerical methods. The **Second Edition** features many noteworthy improvements based on feedback from users, such as new coverage of Cholesky factorization, GMRES methods, and nonlinear PDEs.

Table of Contents

0. Fundamentals
1. Solving Equations
2. Systems of Equations
3. Interpolation
4. Least Squares
5. Numerical Differentiation and Integration
6. Ordinary Differential Equations
7. Boundary Value Problems
8. Partial Differential Equations
9. Random Numbers and Applications
10. Trigonometric Interpolation and the FFT
11. Compression
12. Eigenvalues and Singular Values
13. Optimization



Algebra and Trigonometry, 9/e

Michael Sullivan, *Chicago State University*

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ISBN-13: 9780321761224
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Basic Approach

Mike Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: *preparing* for class, *practicing* with homework, and *reviewing* the concepts. In the **Ninth Edition**, **Algebra and Trigonometry** has evolved to meet today's course needs, building on these hallmarks by integrating projects and other interactive learning tools for use in the classroom or online.

New Internet-based Projects apply skills to real-world problems and are accompanied by assignable MathXL exercises to make it easier to incorporate these projects into the course. In addition, a variety of new exercise types, Showcase Examples, and video tutorials for MathXL exercises give instructors even more flexibility, while helping students build their conceptual understanding.

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R. Review
1. Equations and Inequalities
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10. Polar Coordinates; Vectors
11. Analytic Geometry
12. Systems of Equations and Inequalities
13. Sequences; Induction; The Binomial Theorem
14. Counting and Probability

College Algebra, 9/e

Michael Sullivan, *Chicago State University*

ISBN-10: 0321785088
ISBN-13: 9780321785084
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Basic Approach

Mike Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: *preparing* for class, *practicing* with homework, and *reviewing* the concepts. In the **Ninth Edition**, **College Algebra** has evolved to meet today's course needs, building on these hallmarks by integrating projects and other interactive learning tools for use in the classroom or online.

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8. Systems of Equations and Inequalities
9. Sequences; Induction; the Binomial Theorem
10. Counting and Probability

Precalculus, 9/e

Michael Sullivan, *Chicago State University*

ISBN-10: 0321757300
ISBN-13: 9780321757302
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Basic Approach

Mike Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: *preparing* for class, *practicing* with homework, and *reviewing* the concepts. In the **Ninth Edition**, **Precalculus** has evolved to meet today's course needs, building on these hallmarks by integrating projects and other interactive learning tools for use in the classroom or online.

New Internet-based Projects apply skills to real-world problems and are accompanied by assignable MathXL exercises to make it easier to incorporate these projects into the course. In addition, a variety of new exercise types, Showcase Examples, and video tutorials for MathXL exercises give instructors even more flexibility, while helping students build their conceptual understanding.

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11. Systems of Equations and Inequalities
12. Sequences; Induction; The Binomial Theorem
13. Counting and Probability
14. A Preview of Calculus: The Limit, Derivative, and Integral of a Function

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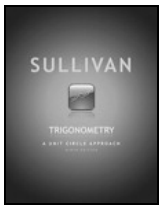

Trigonometry: A Unit Circle Approach, 9/e

Michael Sullivan

ISBN-10: 0321716574
ISBN-13: 9780321716576
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Basic Approach

Mike Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: *preparing* for class, *practicing* with homework, and *reviewing* the concepts. In the **Ninth Edition**, **Trigonometry: A Unit Circle Approach** has evolved to meet today's course needs, building on these hallmarks by integrating projects and other interactive learning tools for use in the classroom or online.

New Internet-based Projects apply skills to real-world problems and are accompanied by assignable MathXL exercises to make it easier to incorporate these projects into the course. In addition, a variety of new exercise types, Showcase Examples, and video tutorials for MathXL exercises give instructors even more flexibility, while helping students build their conceptual understanding.

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1. Graphs and Functions
2. Trigonometric Functions
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4. Applications of Trigonometric Functions
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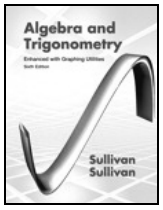

Algebra and Trigonometry Enhanced with Graphing Utilities, 6/e

Michael Sullivan
Michael, III Sullivan

ISBN-10: 0321784839
ISBN-13: 9780321784834
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Basic Approach
Michael Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: preparing for class, practicing with homework, and reviewing the concepts. The **Enhanced with Graphing Utilities Series**has evolved to meet today's course needs by integrating the usage of graphing calculator, active-learning, and technology in new ways to help students be successful in their course, as well as in their future endeavors.
In the **Sixth Edition**, new worksheets in MyMathLab—developed from the authors' experience in the classroom—provide mixed review for students who having trouble reconciling various topics, and also give students an opportunity to show their work. The "Are You Prepared?" section openers focus on students mastering the prerequisite material before beginning a new topic, and for the first time, those exercises are assignable in MyMathLab. Concept and Vocabulary exercises are also now assignable in MyMathLab as reading quizzes.

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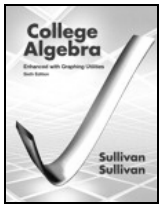
12. Systems of Equations and Inequalities
13. Sequences; Induction; the Binomial Theorem
14. Counting and Probability



College Algebra Enhanced with Graphing Utilities, 6/e

Michael Sullivan
Michael Sullivan

ISBN-10: 0321795644
ISBN-13: 9780321795649
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Basic Approach
Michael Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: preparing for class, practicing with homework, and reviewing the concepts. The **Enhanced with Graphing Utilities Series**has evolved to meet today's course needs by integrating the usage of graphing calculator, active-learning, and technology in new ways to help students be successful in their course, as well as in their future endeavors.
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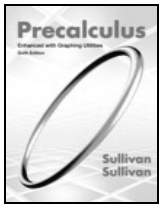
5. Polynomial and Rational Functions
6. Exponential and Logarithmic Functions
7. Analytic Geometry
8. Systems of Equations and Inequalities
9. Sequences; Induction; the Binomial Theorem



Precalculus Enhanced with Graphing Utilities, 6 / e

Michael Sullivan
Michael, III Sullivan

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ISBN-13: 9780321795465
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Basic Approach

Michael Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: preparing for class, practicing with homework, and reviewing the concepts. The **Enhanced with Graphing Utilities Series**has evolved to meet today's course needs by integrating the usage of graphing calculator, active-learning, and technology in new ways to help students be successful in their course, as well as in their future endeavors.

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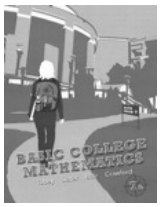
13. Counting and Probability
14. A Preview of Calculus: The Limit, Derivative, and Integral of a Function



Basic College Mathematics, 7 / e

John S Tobey, *North Shore Community College*
Jeffrey L. Slater, *North Shore Community College*
Jamie Blair, *Orange Coast College*
Jennifer Crawford, *Normandale Community College*

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ISBN-13: 9780321747594
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Basic Approach

The **Tobey / Slater / Blair / Crawford series** builds essential skills one at a time by breaking the mathematics down into manageable pieces. This practical "building block" organization makes it easy for students to understand each topic and gain confidence as they move through each section. Students will find many opportunities to check and reinforce their understanding of concepts throughout the text and its MyMathLab course. With this revision, the author team has added a new Math Coach feature that provides students with an office hour experience by helping them to avoid commonly made mistakes. With Tobey/Slater/Blair/Crawford, students have a tutor, a study companion, and now a coach, with them every step of the way.

Table of Contents

1. Whole Numbers
2. Fractions
3. Decimals
4. Ratio and Proportion
5. Percent
6. Measurement
7. Geometry
8. Statistics
9. Signed Numbers
10. Introduction to Algebra

Beginning & Intermediate Algebra, 4/e
John S Tobey, North Shore Community College
Jeffrey L. Slater, North Shore Community College
Jamie Blair, Orange Coast College
Jennifer Crawford, Normandale Community College

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Basic Approach
The **Tobey/Slater/Blair/Crawford series** builds essential skills one at a time by breaking the mathematics down into manageable pieces. This practical "building block" organization makes it easy for students to understand each topic and gain confidence as they move through each section. Students will find many opportunities to check and reinforce their understanding of concepts throughout the text and its MyMathLab course. With this revision, the author team has added a new Math Coach feature that provides students with an office hour experience by helping them to avoid commonly made mistakes. With Tobey/Slater/Blair/Crawford, students have a tutor, a study companion, and now a coach, with them every step of the way.

Beginning Algebra, 8/e
John S Tobey, North Shore Community College
Jeffrey L. Slater, North Shore Community College
Jamie Blair, Orange Coast College
Jennifer Crawford, Normandale Community College

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Beginning Algebra: Early Graphing, 3/e
John S Tobey, North Shore Community College
Jeffrey L. Slater, North Shore Community College
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Jennifer Crawford, Normandale Community College

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Essentials of Basic College Mathematics, 3/e
John S Tobey, North Shore Community College
Jeffrey L. Slater, North Shore Community College
Jamie Blair, Orange Coast College
Jennifer Crawford, Normandale Community College

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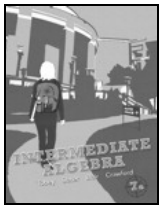
Basic Approach
The **Tobey/Slater series** builds essential skills one at a time by breaking the mathematics down into manageable pieces. This practical "building block" organization makes it easy for students to understand each topic and gain confidence as they move through each section. Students respond well to regular feedback, so the authors provide a "How am I Doing?" guide to give students constant reinforcement and to ensure that students understand each concept before moving on to the next. With Tobey/Slater, students have a tutor and study companion with them every step of the way.

This new edition features Quick Quizzes and Classroom Quizzes, as well as vignettes on how to use math to save money, making this text even more practical and accessible for students.



Intermediate Algebra, 7/e

John S Tobey, North Shore Community College
Jeffrey L. Slater, North Shore Community College
Jamie Blair, Orange Coast College
Jennifer Crawford, Normandale Community College

ISBN: 9780321769503

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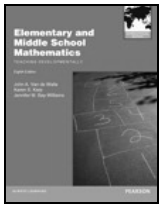
Basic Approach
The **Tobey/Slater/Blair/Crawford series** builds essential skills one at a time by breaking the mathematics down into manageable pieces. This practical "building block" organization makes it easy for students to understand each topic and gain confidence as they move through each section. Students will find many opportunities to check and reinforce their understanding of concepts throughout the text and its MyMathLab course. With this revision, the author team has added a new Math Coach feature that provides students with an office hour experience by helping them to avoid commonly made mistakes. With Tobey/Slater/Blair/Crawford, students have a tutor, a study companion, and now a coach, with them every step of the way.



Elementary and Middle School Mathematics: Teaching Developmentally, 8/e

John A. Van de Walle, Late of Virginia Commonwealth University
Karen S. Karp, University of Louisville
Jennifer M. Bay-Williams, University of Louisville

ISBN: 9780132879040

ISBN-10: 0132879042
ISBN-13: 9780132879040
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Basic Approach
For Elementary Mathematics Methods or Middle School Mathematics Methods Covers preK-8
Written by leaders in the field, this best-selling book will guide teachers as they help all PreK-8 learners make sense of math by supporting their own mathematical understanding and cultivating effective planning and instruction.
Elementary and Middle School Mathematics: Teaching Developmentally provides an unparalleled depth of ideas and discussion to help teachers develop a real understanding of the mathematics they will teach and the most effective methods of teaching the various mathematics topics. This text reflects the NCTM and Common Core State Standards and the benefits of problem-based mathematics instruction. It is structured for maximum flexibility, offering 23 s that may be mixed and matched to fit any course or teaching approach. This comprehensive, practical text offers readers a strong theoretical perspective reflecting the most current research on how students learn mathematics, ways to best teach it, and many problem-based activities to engage students. An important reference to consult throughout a teaching career, Van de Walle, Karp and Bay-William's book helps teachers and their preK-8 students find the excitement that happens when mathematics makes sense.

Table of Contents

Section 1: Teaching Mathematics: Foundations and Perspectives
1 Teaching Mathematics in the 21st Century
2 Exploring What it Means to Know and Do Mathematics
3 Teaching through Problem Solving
4 Planning in the Problem-Based Classroom
5 Building Assessment into Instruction
6 Teaching Mathematics Equitably to All Children
7 Using Technological Tools to Teach Mathematics

Section 2: Development of Mathematical Concepts and Procedures
8 Developing Early Number Concepts and Number Sense
9 Developing Meanings for the Operations
10 Helping Students Master the Basic Facts
11 Developing Whole-Number Place-Value Concepts
12 Developing Strategies for Addition and Subtraction Computation
13 Developing Strategies for Multiplication and Division Computation
14 Algebraic Thinking: Generalizations, Patterns, and Functions
15 Developing Fraction Concepts
16 Developing Strategies for Fraction Computation
17 Developing Concepts of Decimals and Percents
18 Proportional Reasoning
19 Developing Measurement Concepts
20 Geometric Thinking and Geometric Concepts
21 Developing Concepts of Data Analysis
22 Exploring Concepts of Probability
23 Developing Concepts of Exponents, Integers, and Real Numbers

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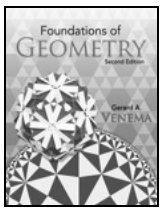


Foundations of Geometry, 2/e
Gerard Venema

ISBN-10: 0136020585
ISBN-13: 9780136020585
408pp ©2012 Paper

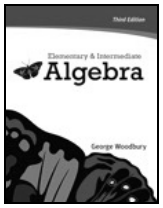
Basic Approach
Foundations of Geometry, Second Edition is written to help enrich the education of all mathematics majors and facilitate a smooth transition into more advanced mathematics courses. The text also implements the latest national standards and recommendations regarding geometry for the preparation of high school mathematics teachers—and encourages students to make connections between their college courses and classes they will later teach.

This text's coverage begins with Euclid's *Elements*, lays out a system of axioms for geometry, and then moves on to neutral geometry, Euclidian and hyperbolic geometries from an axiomatic point of view, and then non-Euclidean geometry. Good proof-writing skills are emphasized, along with a historical development of geometry. The **Second Edition** streamlines and reorganizes material in order to reach coverage of neutral geometry as early as possible, adds more exercises throughout, and facilitates use of the open-source software Geogebra.

This text is ideal for an undergraduate course in axiomatic geometry for future high school geometry teachers, or for any student who has not yet encountered upper-level math, such as real analysis or abstract algebra. It assumes calculus and linear algebra as prerequisites.

Table of Contents

1. Prologue: Euclid's *Elements*
2. Axiomatic Systems and Incidence Geometry
3. Axioms for Plane Geometry
4. Neutral Geometry
5. Euclidean Geometry
6. Hyperbolic Geometry
7. Area
8. Circles
9. Constructions
10. Transformations
11. Models
12. Polygonal Models and the Geometry of Space



Elementary & Intermediate Algebra, 3/e
George Woodbury, *College of the Sequoias*

ISBN-10: 0321665481
ISBN-13: 9780321665485
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Basic Approach
For many students, developmental mathematics is the gateway to success in academics and in life. **George Woodbury** strives to provide his students (and yours!) with a complete learning package that empowers them to succeed in developmental mathematics and beyond. The Woodbury suite consists of a combined text written from the ground up to minimize overlap between elementary and intermediate algebra, a new workbook that helps students make connections between skills and concepts, and a robust MyMathLab® course.

Table of Contents

1. Review of Real Numbers
2. Linear Equations
3. Graphing Linear Equations
4. Systems of Equations
5. Exponents and Polynomials
6. Factoring and Quadratic Equations
7. Rational Expressions and Equations
8. A Transition
9. Radical Expressions and Equations
10. Quadratic Equations
11. Functions
12. Logarithmic and Exponential Functions
13. Conic Sections
14. Sequences, Series, and the Binomial Theorem

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Classical Thermodynamics: Based on Webware Test-Ed, 1/e

Subrata Bhattacharjee, San Diego State University

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Automatic Transmissions and Tranaxles, 5/e

Thomas W. Birch

ISBN-10: 0132622270
ISBN-13: 9780132622271
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Basic Approach
For courses in Automatic Transmissions Theory or Service.

Ideal for both novice and advanced technicians, ***Automatic Transmissions and Transaxles, Fifth Edition,*** provides a complete, state-of-the-art source on the operating principles as well as the service and repair procedures for modern automatic transmissions and transaxles. Correlated to NATEF and ASE tasks, the text focuses on the generic theory that underlies the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of vehicles students will likely encounter on the job. Formatted to better meet the learning needs of today's technical trade students, it visually supports concepts covered throughout, and includes many practical shop tips that guide students through important problem-solving procedures they'll use on the job.

Table of Contents

1 Service Information, Fasteners, Tools, and Safety
2 Environmental and Hazardous Materials
3 Introduction to Transmissions
4 Apply Devices Clutches and Bands
5 Power Flow through Transmission Gearsets
6 Hydraulic System
7 Hydraulic Shift Control
8 Electronic Transmission Controls
9 Torque Converters
10 Transmission Descriptions
11 Transmission Service and Maintenance
12 Mechanical Problem Solving and Diagnosis
13 Transmission Problem Solving and Diagnosis
14 In-Vehicle Transmission Repair
15 Transmission/Transaxle Removal and Replacement
16 Transmission Overhaul Disassembly and Reassembly
17 Transmission Overhaul Procedures
18 Subassembly Repair
19 Torque Converter Service
20 Automatic Transmission Modifications

Manual Drivetrains and Axles, 6/e

Thomas W. Birch

ISBN-10: 0135123623
ISBN-13: 9780135123621
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Basic Approach
For courses in Automotive Manual Drivetrains.

Ideal for both novice and advanced technicians, ***Manual Drivetrains and Axles, Sixth Edition,*** provides a complete, state-of-the-art source on the operating principles as well as the service and repair procedures for manual drivetrains and axles. Correlated to NATEF and ASE tasks, the text focuses on the generic theory that

underlies the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of vehicles students will likely encounter on the job. Formatted to better meet the learning needs of today's technical trade students, it visually supports concepts covered throughout, and includes many practical shop tips that guide students through important problem-solving procedures they'll use on the job.

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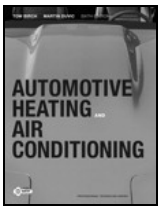
1. Service Information, Tools, and Safety
2. Environmental and Hazardous Materials
3. Introduction to Drivetrains
4. Clutch Theory
5. Clutch Service
6. Transmission Theory
7. Transaxle Theory
8. Transaxle/Transmission Service
9. Driveshaft and Universal Joint Theory
10. Driveshaft and Universal Joint Service
11. Drive Axles
12. Drive Axle Service
13. Four-Wheel Drive Theory
14. 4WD Service
15. Electrical/Electronic Drivetrain Theory and Service
16. Extra-duty and High-Performance Drivetrains



Automotive Heating and Air Conditioning, 6/e

Thomas W. Birch
Martin Duvic

ISBN-10: 0132551535
ISBN-13: 9780132551533
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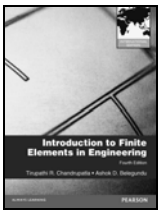
Basic Approach
For undergraduate automotive courses in Automotive Climate Control/Heating and Air Conditioning.

Ideal for both novice and advanced technicians, ***Automotive Heating and Air Conditioning, Sixth Edition,*** provides a complete, state-of-the-art source on automotive heating, ventilation, and air conditioning systems.Correlated to NATEF and ASE tasks, the text focuses on the generic theory that underlies the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of vehicles students will likely encounter on the job. Formatted to better meet the learning needs of today's technical trade students, it visually supports concepts covered throughout, and includes many practical shop tips that guide students through important problem-solving procedures they'll use on the job.

Table of Contents

1. Service Information, Fasteners, Tools, and Safety.
2. Environmental and Hazardous Materials.
3. Basics of Heating and Air Conditioning.
4. Heat Movement Theory.
5. Refrigerants and the Environment.
6. Moving Heat: Heating and Air Conditioning Principles.
7. Air Conditioning Systems.
8. Air Conditioning Systems Components.
9. Heating Systems.
10. Air Management Systems.
11. HVAC System Inspection and Trouble Diagnosis Procedures.
12. A/C System Inspection and Diagnosis.
13. Heating and Air Management Systems Inspection and Diagnosis.
14. HVAC System Electrical or Electronic Controls: Theory, Inspection, and Diagnosis, and Repair.
15. Refrigerant Service Operations.
16. A/C System Repair.
17. Cooling System Inspection, Trouble Diagnosis, and Service.



Introduction to Finite Elements in Engineering, 4/e

Tirupathi R. Chandrupatla, *Rowan University*
Ashok D. Belegundu, *Pennsylvania State University*

ISBN-10: 0273763687
ISBN-13: 9780273763680
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Basic Approach

Introduction to Finite Engineering is ideal for senior undergraduate and first-year graduate students and also as a learning resource to practicing engineers.

This book provides an integrated approach to finite element methodologies. The development of finite element theory is combined with examples and exercises involving engineering applications. The steps used in the development of the theory are implemented in complete, self-contained computer programs. While the strategy and philosophy of the previous editions has been retained, the¿Fourth Edition has been updated and improved to include new material on additional topics.

Table of Contents

1 FUNDAMENTAL CONCEPTS
2 MATRIX ALGEBRA AND GAUSSIAN ELIMINATION
3 ONE-DIMENSIONAL PROBLEMS
4 TRUSSES
5 BEAMS AND FRAMES
6 TWO-DIMENSIONAL PROBLEMS USING CONSTANT STRAIN TRIANGLES
7 AXISYMMETRIC SOLIDS SUBJECTED TO AXISYMMETRIC LOADING
8 TWO-DIMENSIONAL ISOPARAMETRIC ELEMENTS AND NUMERICAL INTEGRATION
9 THREE-DIMENSIONAL PROBLEMS IN STRESS ANALYSIS
10 SCALAR FIELD PROBLEMS
11 DYNAMIC CONSIDERATIONS
12 PREPROCESSING AND POSTPROCESSING

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Engineering Problem Solving with C, 4/e
Delores M. Etter

ISBN-10: 0273768204
ISBN-13: 9780273768203
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Basic Approach
This introductory-level C programming book is designed primarily for engineering students required to learn how to program.

In ***Engineering Problem Solving with C, 4e,*** best-selling author, Delores Etter, uses real-world engineering and scientific examples and problems throughout the text. Solutions to the problems are developed using the language C and the author's signature five-step problem solving process. Since learning any new skill requires practice at a number of different levels of difficulty, four types of exercises are presented to develop problem-solving skills - Practice! problems, Modify! problems, Short-Answer problems, and Programming problems. The author's clear and precise style creates a highly accessible and readable text for students of all levels.

The new theme for this edition is crime scene investigation (CSI). Learning about the technology behind crime scene investigation is not only interesting to students, but it provides a number of problems to develop for C program solutions.

Table of Contents

1 Engineering Problem Solving
2 Simple C Programs
3 Control Structures and Data Files
4 Modular Programming with Functions
5 Arrays and Matrices
6 Programming with Pointers
7 Programming with Structures
8 An Introduction to C++

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Advanced Automotive Electricity and Electronics, 1/e
James D. Halderman

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ISBN-13: 9780132542623
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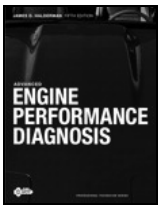
ISBN: 9780132542623

Basic Approach
For courses in Advanced Automotive Electricity and Electronics.
Advanced Automotive Electricity and Electronics is specifically designed for the second semester of an automotive electrical systems course. The first 12 s offer solid review of foundational automotive electronics service and repair procedures, with the subsequent 17 s covering advanced topics, such as chassis systems, HVAC, and hybrid electric vehicles. The text's short s focus on a specific system or topic, making it easier for instructors to assign reading and easier for students to master the material.

Table of Contents

1 Electrical Fundamentals
2 Electrical Circuits and Ohm's Law
3 Series, Parallel, and Series-Parallel Circuits
4 Circuit Testers and Digital Meters
5 Oscilloscopes and Graphing Multimeters
6 Automotive Wiring and Wire Repair
7 Wiring Schematics and Circuit Testing
8 Batteries
9 Cranking System
10 Cranking System Diagnosis and Service
11 Charging System
12 Charging System Diagnosis and Service
13 Electronic Fundamentals
14 Computer Fundamentals
15 CAN and Network Communications
16 Lighting and Signaling Circuits
17 Driver Information and Navigation Systems
18 Horn, Wiper, and Blower Motor Circuits
19 Accessory Circuits
20 Automatic HVAC Control Circuits
21 Airbag and Pretensioner Circuits
22 Tire Pressure Monitoring Systems
23 Electronic Suspension Systems
24 Electric Power Steering Systems
25 Electronic Stability Control Systems
26 Introduction to Hybrid Vehicles
27 Regenerative Braking Systems
28 Hybrid Safety and Service Procedures
29 Fuel Cells and Advanced Technologies



Advanced Engine Performance Diagnosis, 5/e

James D. Halderman

ISBN-10: 0132540096
ISBN-13: 9780132540094
432pp ©2012 Paper

Basic Approach

For courses in Engine Performance and Drivability, Computerized Engine Controls, Automotive Computers, and Automotive Fuel Emissions–in automotive departments of vocational and trade schools as well as community colleges.

Advanced Engine Performance Diagnosis, Fifth Edition, offers a practical, hands-on introduction to the diagnosis and troubleshooting of automotive engine control systems. It serves students as a single source for information on digital storage oscilloscopes, fuel injection and ignition system diagnoses, five-gas exhaust analysis, emission testing, and more–with a very technical, but easy-to-read and understand, presentation.

This title meets the needs for a textbook that combines topics in engine performance (ASE A8 content area) and topics covered in the advanced engine performance (L1) ASE test content area. By combining these two complementary subjects into one comprehensive textbook, it is easier for the instructor to teach these topics and is cost effective for the student.

Table of Contents

1 The Diagnostic Process
2 CAN and Network Communications
3 On-Board Diagnosis
4 Global OBD II and Mode $06
5 Circuit Testers and Digital Meters
6 Oscilloscopes and Graphing Multimeters
7 Starting and Charging System Diagnosis
8 Ignition System Operation
9 Ignition System Diagnosis
10 Gasoline, Alternative Fuels and Diesel Fuels
11 Temperature Sensors
12 Throttle Position (TP) Sensors
13 MAP/BARO Sensors
14 Mass Air Flow (MAF) Sensors
15 Oxygen Sensors
16 Wide-Band Oxygen Sensors
17 Fuel Trim Diagnosis
18 Fuel Pumps, Lines, and Filters
19 Fuel Injection Components and Operation
20 Gasoline Direct Injection Systems

21 Electronic Throttle Control Systems
22 Fuel Injection System Diagnosis and Service
23 Vehicle Emission Standards and Testing
24 Emission Control System Devices, Operation, and Diagnosis
25 Engine Condition Diagnosis
26 In-Vehicle Engine Service
27 Symptom-Based Diagnosis

Automotive Technology, 4/e
James D. Halderman

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ISBN-13: 9780132542616
1664pp ©2012 Cloth

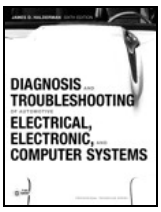
Basic Approach
For courses in Automotive Principles, Service and/or Mechanics.

Automotive Technology: Principles, Diagnosis, and Service, Fourth Edition, meets the needs for a comprehensive book that covers all eight areas of automotive service, plus the soft skills and tool knowledge that must also be taught. Because many automotive systems are intertwined, presenting all systems together in one text makes it easier for the student to see how they are all connected. Topics are divided into 133 short s, which makes it easier for instructors and students to learn and master the content.

Table of Contents

1 Automotive Background and Overview
2 Careers in the Automotive Service Industry
3 Starting a Career in the Automotive Industry
4 Working as a Professional Service Technician
5 Technician Certification
6 Shop Safety
7 Environmental and Hazardous Materials
8 Fasteners and Thread Repair
9 Hand Tools
10 Power Tools and Shop Equipment
11 Vehicle Lifting and Hoisting
12 Measuring Systems and Tools
13 Scientific Principles and Materials
14 Math, Charts and Calculations
15 Service Information
16 Vehicle Identification and Emission Ratings
17 Preventive Maintenance and Service Procedures
18 Gasoline Engine Operation, Parts and Specifications
19 Diesel Engine Operation and Diagnosis
20 Coolant
21 Cooling System Operation andDiagnosis
22 Engine Oil
23 Lubrication System Operation and Diagnosis
24 Intake and Exhaust Systems
25 Turbocharging and Supercharging
26 Engine Condition Diagnosis
27 In-Vehicle Engine Service
28 Engine Removal and Disassembly
29 Engine Cleaning and Crack Detection
30 Cylinder Head and Valve Guide Service
31 Valve and Seat Service
32 Camshafts and Valve Trains
33 Pistons, Rings, and Connecting Rods
34 Engine Blocks
35 Crankshafts, Balance Shafts, and Bearings
36 Gaskets and Sealants
37 Engine Assembly and Dynamometer Testing
38 Engine Installation and Break-In
39 Electrical Fundamentals
40 Electrical Circuits and Ohm's Law
41 Series, Parallel, and Series-Parallel Circuits
42 Circuit Testers and Digital Meters
43 Oscilloscopes and Graphing Multimeters
44 Automotive Wiring and Wire Repair
45 Wiring Schematics and Circuit Testing
46 Capacitance and Capacitors
47 Magnetism and Electromagnetism
48 Electronic Fundamentals
49 CAN and Network Communications
50 Batteries

51 Battery Testing and Service
52 Cranking Systems
53 Cranking System Diagnosis and Service
54 Charging Systems
55 Charging System Diagnosis and Service
56 Lighting and Signaling Circuits
57 Driver Information and Navigation Systems
58 Horn, Wiper, and Blower Motor Circuits
59 Accessory Circuits
60 Restraint Systems and Airbags
61 Audio System Operation and Diagnosis
62 Heating and Air-Conditioning Components and Operation
63 Automatic Air-Conditioning System Operation
64 Heating and Air-Conditioning System Diagnosis
65 Heating and Air-Conditioning System Service
66 Gasoline
67 Alternative Fuels
68 Diesel and Biodiesel Fuels
69 Ignition System Components and Operation
70 Ignition System Diagnosis and Service
71 Computer Fundamentals
72 Temperature Sensors
73 Throttle Position Sensors
74 MAP/BARO Sensors
75 Mass Air Flow Sensors
76 Oxygen Sensors
77 Fuel Pumps, Lines, and Filters
78 Fuel Injection Components and Operation
79 Gasoline Direct Injection Systems
80 Electronic Throttle Control Systems
81 Fuel Injection System Diagnosis and Service
82 Vehicle Emission Standards and Testing
83 Evaporative Emission Control Systems
84 Exhaust Gas Recirculation (EGR) Systems
85 Positive Crankcase Ventilation (PCV) And Secondary Air Injection (SAI) Systems
86 Catalytic Converters
87 On-Board Diagnosis
88 Scan Tools and Engine Performance Diagnosis
89 Introduction to Hybrid Electric Vehicles
90 Hybrid Safety and Service Procedures
91 Fuel Cells and Advanced Technologies
92 Braking System Components and Performance Standards
93 Braking System Principles
94 Brake Hydraulic Systems
95 Hydraulic Valves and Switches
96 Brake Fluid and Lines
97 Brake Bleeding Methods and Procedures
98 Wheel Bearings and Service
99 Drum Brakes
100 Drum Brake Diagnosis and Service
101 Disc Brakes
102 Disc Brake Diagnosis and Service
103 Parking Brake Operation, Diagnosis, and Service
104 Machining Brake Drums and Rotors
105 Power Brake Unit Operation, Diagnosis, and Service
106 ABS Components and Operation
107 ABS Diagnosis and Service
108 Electronic Stability Control Systems
109 Tires and Wheels
110 Tire Pressure Monitoring Systems
111 Tire and Wheel Service
112 Suspension System Components and Operation
113 Front Suspension and Service
114 Rear Suspension and Service
115 Electronic Suspension Systems
116 Steering Columns and Gears
117 Steering Linkage and Service
118 Power-Assisted Steering Operation and Service
119 Wheel Alignment Principles
120 Alignment Diagnosis and Service
121 Clutches
122 Manual Transmissions/Transaxles
123 Drive Axle Shafts and CV Joints
124 Drive Axle Shafts and CV Joint Service
125 Differentials
126 Four-Wheel-Drive and All-Wheel Drive
127 Automatic Transmission/Transaxle Principles
128 Hydraulic Components and Control Systems
129 Automatic Transmission/Transaxle Diagnosis and In-Vehicle Service
130 Automatic Transmission/Transaxle Unit Repair



Diagnosis and Troubleshooting of Automotive Electrical, Electronic, and Computer Systems, 6/e

James D. Halderman

ISBN-10: 0132551551
ISBN-13: 9780132551557
528pp ©2012 Paper

Basic Approach
For courses in Automotive Electrical Systems and Electronics, Engine Performance, and Emissions Testing.

Diagnosis and Troubleshooting of Automotive Electrical, Electronic, and Computer Systems, Sixth Edition, covers both automotive electrical and engine performance topics all in one book. NATEF-correlated, the text presents the principles and practices of diagnosis and troubleshooting of automotive electrical, electronic, and computer systems in a clear, concise format and at a level of detail that far exceeds most similar texts.

Table of Contents

1 Service Information, Tools and Safety
2 Environmental and Hazardous Materials
3 Electrical Fundamentals
4 Electrical Circuits and Ohm's Law
5 Series, Parallel and Series-Parallel Circuits
6 Circuit Testers and Digital Meters
7 Oscilloscopes and Graphing Multimeters
8 Automotive Wiring and Wire Repair
9 Wiring Schematics and Circuit Testing
10 Capacitance and Capacitors
11 Magnetism and Electromagnetism
12 Electronic Fundamentals
13 Computer Fundamentals
14 CAN and Network Communications
15 Batteries
16 Battery Testing and Service
17 Cranking System
18 Cranking System Diagnosis and Service
19 Charging System
20 Charging System Diagnosis and Service
21 Lighting and Signaling Circuits
22 Driver Information and Navigation Systems
23 Horn, Wiper, and Blower Motor Circuits
24 Accessory Circuits
25 Airbag and Pretensioner Circuits
26 Audio System Operation and Diagnosis
27 OBD II
28 Temperature Sensors
29 Throttle Position Sensors
30 MAP/BARO Sensors
31 Mass Airflow Sensors
32 Oxygen Sensors
33 Ignition System Operation and Diagnosis
34 Fuel Pumps, Lines and Filters
35 Fuel Injection Components and Operation
36 Electronic Throttle Control Systems
37 Fuel Injection System Diagnosis and Service
38 Vehicle Emission Standards and Testing
39 Emission Control Devices Operation and Diagnosis
40 On-Board Diagnosis
41 Scan Tools and Engine Performance Diagnosis
42 Hybrid Electric Vehicle Safety Procedures
43 Fuel Cells and Advanced Technologies

Introduction to Automotive Service, 1/e

James D. Halderman
Darrell Deeter

ISBN-10: 0132540088
ISBN-13: 9780132540087
496pp ©2013 Paper

Basic Approach
For courses in Introduction to Automotive Service.

Introduction to Automotive Service covers all eight areas of automotive service, plus the soft skills and tool knowledge that students seeking entry-level employment must know. The text presents all systems together, making it easier for students to see how automotive systems are intertwined and connected. The text's 40 short s divide the content into individual topics that can be more easily learned and mastered. Offering a solid foundation in the basics, this text uniquely addresses simple inspection and service procedures without overwhelming students by delving too far into each topic.

Table of Contents

1 Automotive Background and Overview
2 Careers in the Automotive Service Industry
3 Starting a Career in the Automotive Industry
4 Working as a Professional Service Technician
5 Technician Certification
6 Shop Safety
7 Environmental and Hazardous
8 Fasteners and Thread Repair
9 Hand Tools
10 Power Tools and Shop Equipment
11 Measuring Systems and Tools
12 Vehicle Service Information, Identification, and Routine Maintenance
13 Vehicle Identification and Emission Ratings
14 Gasoline Engine Operation
15 Diesel Engine Operation
16 Engine Lubrication and Cooling Systems
17 Under Hood Inspection
18 Vehicle Lifting and Hoisting
19 Lube, Oil, and Filter Service
20 Electrical Fundamentals
21 Electrical Circuits
22 Circuit Testers and Digital Meters
23 Starting and Charging Systems
24 Dash Warning Lights and Driver Information Systems
25 Lighting System Inspection
26 Safety Belts and Airbag Systems
27 Heating and Air Conditioning Systems
28 Gasoline and Alternative Fuels
29 Computers and Sensors
30 Ignition System
31 Fuel Injection Systems
32 Emission Control Devices
33 Hybrid Electric Vehicles
34 Scan Tools and Diagnostic Procedures
35 Tires and Wheels
36 Brakes and Antilock Braking Systems
37 Suspension and Steering Systems
38 Manual Transmissions/Transaxles
39 Automatic Transmission/Transaxles
40 Used Vehicle and Pre-Delivery Inspection

Automotive Fuel and Emissions Control Systems, 3/e

James D. Halderman
James Linder, *Linder Technical Services*

ISBN-10: 0132542927
ISBN-13: 9780132542920
480pp ©2012 Paper

Basic Approach
For courses in Engine Performance and Drivability, Fuel Emissions Systems, and Automotive Principles.

Automotive Fuel and Emission Control Systems, Third Edition, isdesigned specifically to correlate with the NATEF program. This comprehensive, up-to-date text covers all aspects of automotive fuel and emissions. It emphasizes diagnosis and troubleshooting, and features tech tips and diagnostic stories throughout.

This title meets the needs for a textbook that combines topics in engine performance (ASE A8 content area) and topics covered in the advanced engine performance (L1) ASE test content area. By combining these two complementary subjects into one comprehensive textbook, it is easier for the instructor to teach these topics and is cost effective for the student.

Table of Contents

1 Service Information, Tools, and Safety
2 Environmental and Hazardous Materials
3 Gasoline Engine Operation, Parts, and Specifications

4 Diesel Engine Operation and Diagnosis
5 Gasoline
6 Alternative Fuels
7 Diesel and Biodiesel Fuels
8 Intake and Exhaust Systems
9 Turbocharging and Supercharging
10 Engine Condition Diagnosis
11 Onboard Diagnosis
12 CAN and Network Communications
13 Temperature Sensors
14 Throttle Position Sensors
15 MAP/BARO Sensors
16 Mass Airflow Sensors
17 Oxygen Sensors
18 Wideband Oxygen Sensors
19 Fuel Pumps, Lines, and Filters
20 Fuel Injection Components and Operation
21 Gasoline Direct-Injection Systems
22 Electronic Throttle Control Systems
23 Fuel-Injection System Diagnosis and Service
24 Vehicle Emission Standards and Testing
25 Evaporative Emission Control (EVAP) Systems
26 Exhaust Gas Recirculation Systems (EGR)
27 PCV and Secondary Air Injection (SAI) Systems
28 Catalytic Converters
29 Ignition System Operation and Diagnosis
30 Scan Tools and Engine Performance Diagnosis
31 Hybrid Electric Vehicle Safety Procedures
32 Fuel Cells and Advanced Technologies

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Hybrid and Alternative Fuel Vehicles, 3/e

James D. Halderman
Tony Martin, Wellesley College

ISBN-10: 013278484X
ISBN-13: 9780132784849
408pp ©2013 Paper

ISBN: 9780132784849

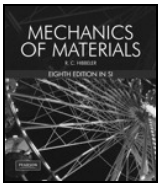
Basic Approach

For courses in automotive fuel and emissions; engine performance; hybrid electric vehicles; automotive technology; alternative fuel systems; and emerging technologies.

This fully updated text brings covers all topics needed to teach a modern service technician's course on hybrid electric vehicles. It combines all essential background information, as well as up-to-date vehicle specific information on the latest makes. Now in full color throughout, this edition offers over 140 new color line drawings and photographs. It adds new coverage of the Chevrolet Volt, Tesla, and Nissan Leaf; the Buick LaCrosse mild hybrid; two-mode operation and transmission operation; high-voltage and auxiliary battery locations; the SAE J1772 electric vehicle plug; Level 1, 2 and 3 charging stations; and the latest alternative fuels. It also covers both engine performance (ASE A8 content) and advanced engine performance (ASE L1 content), enabling instructors to teach both ASE areas without requiring separate texts.

Table of Contents

1. Carbon-Based Fuels and the Environment
2. Introduction to Hybrid Vehicles
3. Internal Combustion Engine Systems
4. Gasoline
5. Alternative Fuels
6. Diesel and Biodiesel Fuels
7 . Hybrid Batteries and Battery Service
8. Electric Motors, Generators, and Controls
9. Regenerative Braking System
10. Hybrid Vehicle Transmissions and Transaxles
11. Hybrid Vehicle Heating and Air Conditioning
12. Honda Hybrid Vehicles
13. Toyota/Lexus Hybrid Vehicles
14. Ford/Mercury Hybrid Vehicles
15. General Motors Hybrid Vehicles
16. Fuel Cells and Advanced Technologies
17. Hybrid Safety and Service Procedures
18. First Responder Procedures



Mechanics Of Materials SI, 8/e

Russell C. Hibbeler

ISBN-10: 9810685092
ISBN-13: 9789810685096
920pp ©2011 Paper

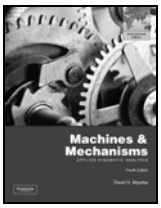
Basic Approach

Hibbeler: Mechanics of Materials SI, 8e is a student-oriented and readable text with a clear and concise presentation of relevant theories and applications. Containing Hibbeler's hallmark student-oriented features, this four-colour text in SI units with a photorealistic art program is designed to help students visualise difficult concepts. This new edition contains more examples than any other Mechanics of Materials text, further enhancing students' ability to master the subject.

MasteringEngineering SI with eText is the only online tutorial and assessment system that coaches students with answer specific feedback and hints that steer them towards the correct answers. eText is an online version of the textbook that has highlighting, note-taking and search functionality.

Table of Contents

1 Stress
2 Strain
3 Mechanical Properties of Materials
4 Axial Load
5 Torsion
6 Bending
7 Transverse Shear
8 Combined Loadings
9 Stress Transformation
10 Strain Transformation
11 Design of Beams and Shafts
12 Deflection of Beams and Shafts
13 Buckling of Columns
14 Energy Methods



Machines & Mechanisms: Applied Kinematic Analysis, 4/e

David H. Myszka, *University of Dayton*

ISBN-10: 0132729733
ISBN-13: 9780132729734
576pp ©2012 Paper

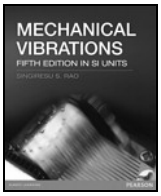
Basic Approach

For all courses in machine motion, theory of machines, industrial mechanisms, mechanism analysis, mechanism design, and kinematics in departments of engineering technology and application-oriented mechanical engineering programs.

This up-to-date introduction to kinematic analysis ensures relevance by using actual machines and mechanisms throughout. It provides the techniques necessary to study the motion of machines while emphasizing the application of kinematic theories to real-world problems. State-of-the-art techniques and tools are utilized, and analytical techniques are presented without complex mathematics. Reflecting instructor and student feedback, this Fourth Edition's extensive improvements include: a new section introducing special-purpose mechanisms; expanded descriptions of kinematic properties; clearer identification of vector quantities through standard boldface notation; new timing charts; analytical synthesis methods; and more. All end-of- problems have been reviewed, and many new problems have been added.

Table of Contents

1. Introduction to Mechanisms and Kinematics
2. Building Computer Models of Mechanisms Using Working Model® Software
3. Vectors
4. Position and Displacement Analysis
5. Mechanism Design
6. Velocity Analysis
7. Acceleration Analysis
8. Computer-Aided Mechanism Analysis
9. Cams: Design and Kinematic Analysis
10. Gears: Kinematic Analysis and Selection
11. Belt and Chain Drives
12. Screw Mechanisms
13. Static Force Analysis
14. Dynamic Force Analysis



Rao Mechanical Vibrations in SI Units, 5/E

Singiresu S. Rao

ISBN-10: 9810687125
ISBN-13: 9789810687120
1104pp ©2011 Paper

Basic Approach

Retaining the style of its previous editions, this text presents the theory, computational aspects, and applications of vibrations in as simple a manner as possible. With an emphasis on computer techniques of analysis, it gives expanded explanations of the fundamentals, focusing on physical significance and interpretation that build upon students' previous experience. Each self-contained topic fully explains all concepts and presents the derivations with complete details. Numerous examples and problems illustrate principles and concepts.

Table of Contents

1 Fundamentals of Vibrations
2 Free Vibration of Single Degree of Freedom Systems
3 Harmonically Excited Vibration
4 Vibration Under General Forcing Conditions
5 Two Degree of Freedom Systems
6 Multidegree of Freedom Systems
7 Determination of Natural Frequencies and Mode Shapes
8 Continuous Systems
9 Vibration Control
10 Vibration Measurement and Applications
11 Numerical Integration Methods in Vibration Analysis
12 Finite Element Method

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Reliability Engineering, 1/e

Singiresu S. Rao

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ISBN-13: 9780136015727
650pp ©2013 Cloth

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Automotive Service Management, 2/e

Andrew Rezin, Columbus St.Community College

ISBN-10: 0132725401
ISBN-13: 9780132725408
352pp ©2013 Cloth

Basic Approach

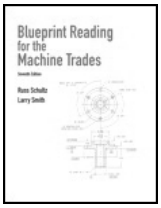
For courses in automotive service management, automotive service advising, and automotive service.
Automotive Service Management: Principles into Practice, Second Edition, provides coverage across a wide range of topics that are critically important in the fast-paced, complex world of automotive service management. Exploring over 30 different topics, the text's conversational tone and real-life examples help reinforce key points and concepts. Designed for those in training to enter the automotive service industry, this text also provides sufficient depth and breadth of content to be a valuable resource to support continuing development for industry service professionals.

Table of Contents

SECTION 1: SERVICE OPERATIONS
1. The Automotive Service Industry
2. Physical Resources
3. Manpower Resources
4. The Repair System
5. Repair Documents
SECTION 2: MANAGEMENT THEORIES AND PRINCIPLES
6. Classic Management
7. The Quality Movement
8. Leadership
9. The Complex Role of Management
10 . Ethics and Stewardship
SECTION 3: MANAGEMENT STRATEGIES
11. Vision, Mission, and Values
12. Strategic Planning

13. Developing Goals
14. Decision Making
SECTION 4: FINANCIAL MEASUREMENT
15. Income and Expenses
16. Compensation Plans
17. Production Plans
18. Analysis and Action
19. Financial Forecasting
SECTION 5: ORGANIZING AND MANAGING YOURSELF
20. Managing Yourself
21. Organizing Tips and Tools

SECTION 6: CUSTOMER RELATIONS
22. The Value of Satisfied Customers
23. Building Basic Communication Skills
24. Resolving Customer Disputes
SECTION 7: EMPLOYEE RELATIONS
25. Recruiting and Selection
26. Motivating Employees
27. Progressive Discipline
SECTION 8: MARKETING AND MERCHANDISING SERVICE
28. Marketing and Mass Media
29. Target Marketing and Building an Identity
30. Point-of-Purchase Merchandising
31. Selling Service
SECTION 9: LEGAL ISSUES AND RESPONSIBILITIES
32. Legal Guidelines for Service Operations
33. Warranties and Service Agreements
34. Workplace Safety



Blueprint Reading for Machine Trades, 7/e

Russ Schultz
Larry Smith

ISBN-10: 0132172208
ISBN-13: 9780132172202
408pp ©2012 Paper

Basic Approach

For introductory blueprint reading courses intended for students in manufacturing trades, including machine operators, general machinists, and tool and die machinists.

This practical workbook systematically teaches the crucial skills that manufacturing trades students need to accurately read and correctly interpret blueprints. Students master each new concept through immediate hands-on problem-solving. No prior blueprint reading knowledge is required, and no materials are required beyond a pencil and eraser. The text begins with the absolute basics, then progresses to visualization, and finally, to multiview drawings. Diverse questions are provided to stimulate interest, including short answer, multiple choice, true/false, and sketching. The book has proven itself in both classroom and industrial settings, and has also been widely used for self-teaching. This edition reflects the latest industry standards, including ASME Y14.5-2009 and CAN3-B78.1-M83.

Table of Contents

UNIT 1
Dictionary of Terms. Standard Abbreviations. Alphabet of Lines.

UNIT 2
Dimensioning Systems. Blueprints vs. Whiteprints. Engineering Drawings. Title Blocks. Drawing Notes. Single-View Drawings. Detail Drawings. Center Lines. Diameters and RADII. Break Lines. Typical Dimensions. Tolerances. Bolt Circles. Maximum Material Condition and Least Material Condition. Allowance. Arcs and Circles.

UNIT 3
Orthographic Projection. Third-Angle Projection. First-Angle Projection. Isometric Sketching.

UNIT 4
Reading Multiview Drawings. Precedence of Lines. Accumulated Tolerances. Dimensioning Methods.

UNIT 5
Orthographic Projection of Inclined Planes. Foreshortened Views. Angular Dimensions. Included Angle. Slots and Grooves.

UNIT 6
Reference Dimensions. Blind Holes. Chamfers. Keyseats and Keyways. Counterbores and Countersinks. Angular Hole Locations. Castings. Finish Symbols. Finish Allowance. Fillets and Rounds. Clearance Holes. Half-Views. Surface Roughness. Roughness Average (Ra). Surface Roughness Chart. Surface Texture Symbol.

UNIT 7

Bosses and Pads. Slotted Holes. Casting and Dimensions. Tapers. Standard Tapers. Necks. Limits. Single Limits. Steel Processing. Steel Specifications. General Properties of Alloy Steels. Steel Carbon Content. Partial Enlarged Views. Stock Sizes. Knurling. Heat-Treat Notes.

UNIT 8
Sectional Views. Full Sections and Half-Sections. Symbology. Annular Grooves. Wall Thickness. Cast Iron. Spotfacing. Revolved Sections. Broken-Out Sections. Ribs in Section. Section Line Symbols. Rotated Features. Removed Sections. Offset Sections.

UNIT 9
Threaded Hole Specifications. Unified Thread Form. Thread Series. Classes of Fit. Threaded Hole Illustrations. Unified Thread Table. Numbered and Lettered Drills. Thread Calculations. Constant Pitch Series. Line Omission. Arrowless Dimensioning. External Threads. Thread Forms. Tabulated Dimensions. Multiple Threads. Pipe Threads. Dryseal Pipe Threads. Hex Bar Stock.

UNIT 10
Typical Dimensions. Right Triangles. Repetitive Features. Detail Drawings. Drawing Revisions. Conical Tapers. Rockwell Hardness Test. Thread Specification Placement. Patent Drawings.

UNIT 11
Metric Drawings. Dimensioning Symbols. Metric Threads. Metric Thread Table. Coordinate Dimensioning. Dual Dimensioning. Dimension Origin.

UNIT 12
Auxiliary Views. Inclined Planes. Oblique Planes. Bend Allowance.

UNIT 13
Geometric Tolerancing. Feature Control Frame. Material Condition Symbols. Projected Tolerance Zone. Basic Dimension Symbol. Datum Feature Symbol. Combined Symbols. Composite Frames. Datum Target Symbol. All Around Symbol. Form Tolerances. Datums and the Datum Reference System. Orientation Tolerances.

UNIT 14
Location Tolerances. Runout Tolerances. Projected Tolerance Zone. Profile Tolerances. Geometric Characteristic Symbols. Former Practices. Comparison of Symbols.

UNIT 15
Spur Gear Terminology. Spur Gear Formulas. Spur Gears. Splines.

UNIT 16
Weldments. Welding Symbols. Resistance Welds.

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Introduction to Computer Numerical Control, 5/e

James V. Valentino, *Queensborough Community College*
Ed V. Goldenberg
AAA Predator, Inc

ISBN-10: 0132794977
ISBN-13: 9780132794978
552 ©2013 Paper

ISBN: 9780132794978

Basic Approach

For all introductory courses in Computer Numerical Control (CNC), including undergraduate courses of both one and two semesters, typically offered in freshman year, at community colleges, or at trade schools.

This is the industry's most thorough, easy-to-follow, and well-illustrated introduction to the fundamentals of CNC technology and programming. Throughout, it relies on illustrations and interactive software to promote learning, not lengthy narratives. Coverage includes: programming linear profiles, programming with cutter diameter compensation, programming with subprograms, CNC lathe programming, and more. Interactive dynamic displays of machining examples are presented via an full industrial quality machining simulator included on an accompanying CD. Program patterns are provided with many programs, quickly explaining what groups of programming blocks are intended to accomplish. This edition contains an all-new on wire EDM technology and programming, as well as new and updated reference appendices.

Table of Contents

1. Introduction to Computer Numerical Control Manufacturing
2. Modern Machine Tool Controls
3. Tooling for Hole and Milling Operations
4. Exploring Features of CNC Manufacturing Centers
5. Review of Basic Blueprint Reading for CNC Programmers
6. Mathematics for CNC Programming
7. An Overview of CNC Shop Activities
8. Word Address Programming
9. Programming Hole Operations
10. Programming Linear Profiles
11. Programming Circular Profiles
12. Programming with Cutter Diameter Compensation
13. Programming with Subprograms

14. Introduction to the CNC Lathe
15. Fundamental Concepts of CNC Lathe Programming
16. Techniques and Fixed Cycles for CNC Lathe Programming
17. Introduction to CNC Wire EDM
18. Modern Computer-Aided Part Programming

Automotive Diesel Technology, 1/e
Gus Wright

ISBN-10: 0131574531
ISBN-13: 9780131574533
368pp ©2013 Cloth

ISBN: 9780131574533

Basic Approach
For courses in Diesel Engines, Engine Management or Fuels.
Designed to address the growing popularity of light and medium duty diesel engines, this book helps meet the educational requirements of automotive technicians servicing this new generation of engine. Taking a systems approach, it addresses contemporary diesel technology and analyzes each engine system in a distinct . Its approach covers the latest trends related to diesel engine emissions and discusses the new diesel technologies. Special coverage is devoted to performance issues as readers are encouraged to develop a comprehensive understanding of diesel engine operation, service and maintenance.

Table of Contents

1. Why Diesel
2. Diesel Engine Combustion and Operating Principles
3. Diesel Engine Cylinder Blocks and Engine Terminology
4. Cylinder Components
5. Cylinder Heads
6. Diesel Engine Cooling Systems
7. Diesel Engine Lubrication Systems
8. Diesel Engine Emissions
9. What is Diesel Fuel?
10. Low Pressure Fuel System
11. Functions of High Pressure Fuel Systems
12. Hydraulic Injector Nozzles
13. Multiple Plunger Inline Injection Pumps
14. Mechanical Governors and Air Fuel Ratio Control
15. Electronic Signal Processing and Engine Management
16. Mechanical Distributor Type Injection Pumps
17. Electronic Distributor Type Pumps, Unit Pumps & Electronic Unit Injectors
18. Hydraulically Actuated Electronic Unit Injector (HEUI) Systems
19. Common Rail High Pressure Fuel Injection Systems
20. Air Induction and Crankcase Ventilation Systems
21. Turbochargers
22. Charge Air Cooling
23. Diesel Engine Exhaust Systems & Exhaust Emission Aftertreatment
24. Exhaust Gas Re-circulation (EGR) for Diesel Engines
25. On-board Diagnostics, Vehicle Networks & Electronic Service Tools

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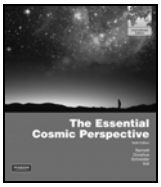

Essential Cosmic Perspective, The, 6/e

Jeffrey O. Bennett, *University of Colorado, Boulder*
Megan Donahue, *Michigan State University*
Nicholas O Schneider, *University of Colorado, Boulder*
Mark Voit, *Michigan State University*

ISBN-10: 0321747321
ISBN-13: 9780321747327
624pp ©2012 Paper

Basic Approach
The Essential Cosmic Perspective with MasteringAstronomy®, **Sixth Edition** retains all of the features that have made this text so popular and effective. New features and updates based on current research will engage students as they learn about astronomy. The textbook package also includes updated supplements to support the book's pedagogy, making it the most effective text in the one-semester astronomy market.

The **Sixth Edition** includes new **visual foldout diagrams on the scale of space and time,** key concepts in understanding the scope of the universe and individual objects within it. The book also includes **Group Work Exercises** to foster active participation in collaborative, in-class learning.

The Essential Cosmic Perspective, Sixth Edition is supported by an unparalleled media package designed to help professors and students seamlessly incorporate media into lectures and self study. **MasteringAstronomy** is the most robust online tutorial and assessment program on the market, making assigning and grading homework easier than ever. **The Instructor Resource DVD** includes high resolution JPEGs of all images in the text, Interactive Figures and Photos™ based on figures from the book, PowerPoint® Lecture Outlines, Clicker Quizzes based on the book and book-specific interactive media, plus a variety of additional instructor resources.

Table of Contents

I. DEVELOPING PERSPECTIVE
1. Our Place in the Universe
2. Discovering the Universe for Yourself
3. The Science of Astronomy

II. KEY CONCEPTS FOR ASTRONOMY
4. Making Sense of the Universe: Understanding Motion, Energy, and Gravity
5. Light: The Cosmic Messenger

III. LEARNING FROM OTHER WORLDS
6. Formation of Planetary Systems: Our Solar System and Beyond
7. Earth and the Terrestrial Worlds
8. Jovian Planet System
9. Asteroids, Comets, and Dwarf Planets: Their Nature, Orbits, and Impacts

IV. STARS
10. Our Star
11. Surveying the Stars
12. Star Stuff
13. The Bizarre Stellar Graveyard

V. GALAXIES AND BEYOND
14. Our Galaxy
15. Galaxies and the Foundation of Modern Cosmology
16. Dark Matter, Dark Energy, and the Fate of the Universe
17. The Beginning of Time

VI. LIFE ON EARTH AND BEYOND
18. Life in the Universe

Life in the Universe, 3/e

Jeffrey O. Bennett, *University of Colorado, Boulder*
Seth Shostak, *SETI Institute Senior Astronomer*

ISBN-10: 0321747305
ISBN-13: 9780321747303
544pp ©2012 Paper

Basic Approach
Life in the Universe takes non-science majors on a journey through the solar system and beyond, using a rigorous yet accessible introduction to astronomy, biology, and geology to explain natural phenomena and to

explore profound scientific questions about astrobiology. The **Third Edition** has been thoroughly revised to include updated scientific discoveries, new Cosmic Context two-page spreads, and an updated Premium Website.

Designed for astrobiology courses but also suitable for introductory astronomy, **Life in the Universe** captures the imagination of students by exploring fundamental pan-scientific questions: How did life begin on Earth? What are the most extreme forms of life currently known? Is it reasonable to imagine life beyond Earth?

The text motivates non-science majors to develop basic reasoning skills and an understanding of the process of science through skillful writing and a wealth of pedagogical features, such as Learning Goals that keep students focused on key concepts. Sidebars provide optional mathematical material for courses that fulfill quantitative requirements.

Table of Contents

I. INTRODUCING LIFE IN THE UNIVERSE
1. A Universe of Life?
2. The Science of Life in the Universe
3. The Universal Context of Life
II. LIFE ON EARTH
4 The Habitability of Earth
5. The Nature of Life on Earth
6. The Origin and Evolution of Life on Earth
III. LIFE IN THE SOLAR SYSTEM
7. Searching for Life in Our Solar System
8. Mars
9. Life on Jovian Moons
10. The Nature and Evolution of Habitability
IV. LIFE AMONG THE STARS
11. Habitability Outside the Solar System
12. The Search for Extraterrestrial Intelligence
13. Interstellar Travel and the Fermi Paradox
Epilogue: Contact – Implications of the Search and Discovery

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Particle Physics, 1/e

Duncan Carlsmith, University of Wisconsin

ISBN-10: 0321676890
ISBN-13: 9780321676894
700pp ©2013 Cloth

Basic Approach

Particle Physics is the first book to connect theory and experiment in particle physics. Duncan Carlsmith provides the first accessible exposition of the standard model with sufficient mathematical depth to demystify the language of gauge theory and Feynman diagrams used by researchers in the field. Carlsmith then connects theories to past, present, and future experiments.
This book provides an accessible entry to modern particle physics to students with a background in intermediate electromagnetic theory and non-relativistic quantum mechanics.

Table of Contents

1. Introduction
2. Relativity, Accelerators, and Collisions
3. Experiments
4. Quantum Physics
5. Electrodynamics of Bosons
6. Electrodynamics of Fermions
7. Gauge Theory and Chromodynamics
8. Unification and the Higgs Mechanism
9. Advanced Calculations
10. Hadrons
11. Beyond the Standard Model

No image available

Astronomy: A Beginner's Guide to the Universe, 7/e

Eric Chaisson, Tufts University
Steve McMillan, Drexel University

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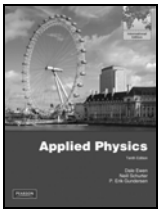
ISBN-13: 9780321815354
574pp ©2013 Paper



Applied Physics, 10/e

Dale Ewen, *Parkland College*
Neill Schurter
Erik Gundersen

ISBN-10: 013271986X
ISBN-13: 9780132719865
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Basic Approach
Appropriate for courses in Technical Physics

This highly successful textbook presents clear, to-the-point topical coverage of basic physics applied to industrial and technical fields. A wealth of real-world applications are presented, motivating students by teaching physics concepts in context.

Table of Contents

An Introduction to Physics
1 The Physics Tool Kit
2 Problem Solving
3 Vectors
4 Motion
5 Force
6 Momentum
7 Concurrent and Parallel Forces
8 Work and Energy
9 Rotational Motion
10 Simple Machines
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13 Fluids
14 Temperature and Heat Transfer
15 Properties of Gases
16 Wave Motion and Sound
17 Basic Electricity
18 Magnetism
19 Alternating Current Electricity
20 Light
21 Reflection and Refraction
22 Color
23 Survey of Modern Physics
24 Special and General Relativity

Conceptual Physics, 11/e

Paul G. Hewitt, *City College of San Francisco*

ISBN-10: 0321684923
ISBN-13: 9780321684929
816pp ©2012 Paper

Basic Approach
Since defining this course 30 years ago, Paul Hewitt's best-selling text continues to be the benchmark book that two-thirds of professors use and by which all others are judged. In **Conceptual Physics with MasteringPhysics®, Eleventh Edition** Paul Hewitt shows how a compelling text and the most advanced media can be integrated to empower professors as they bring physics to life for non-science majors, both in and out of class. For the **Eleventh Edition,** Hewitt helps students connect physics to their everyday experiences and the world around them, and provides additional help on solving mathematical problems.

Hewitt's text is famous for engaging students with analogies and imagery from real-world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics. With this strong foundation, students are better equipped to understand the equations and formulas of physics, and are motivated to explore the thought-provoking exercises and fun projects in each . The new edition features a fresh new design, content that is more focused on physics applications, updated pedagogical features, and access to MasteringPhysics.

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1. About Science
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Conceptual Integrated Science, 2/e
Paul G. Hewitt, City College of San Francisco
Suzanne A Lyons, California State University, Sacramento
John A. Suchocki, St. Michael's College
Jennifer Yeh, University of California, San Francisco

ISBN-10: 0321818504
ISBN-13: 9780321818508
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Conceptual Physical Science, 5/e
Paul G. Hewitt, *City College of San Francisco*
John A. Suchocki, *St. Michael's College*
Leslie A. Hewitt

ISBN-10: 0321798333
ISBN-13: 9780321798336
880pp ©2012 Paper

Basic Approach
Conceptual Physical Science, Fifth Edition, the bestselling physical science text is now available with MasteringPhysics®–the most advanced physics homework and tutorial system available. This engaging text takes learning physical science to a new level by combining Hewitt's leading conceptual approach with a friendly writing style, strong integration of the sciences, more quantitative coverage, and a wealth of media resources to help professors in class, and students out of class. It provides a conceptual overview of basic, essential topics in physics, chemistry, earth science, and astronomy with optional quantitative coverage.

Instructors also have a wide array of electronic support materials on the Instructor Resource DVD set, including JPEGs of all figures from the book, PowerPoint® Lecture Outlines and Clicker Questions, and more.

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2. Newton's Laws of Motion
3. Momentum and Energy
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8. Electrostatics and Electric Current
9. Magnetism and Electromagnetic Induction
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25. Driving Forces of Weather

Part 4: Astronomy
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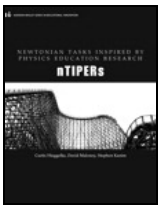

Newtonian Tasks Inspired by Physics Education Research: nTIPERs, 1/e

C J Hieggelke
D P Maloney
Steve Kanim

ISBN-10: 0321753755
ISBN-13: 9780321753755
300pp ©2012 Paper

Basic Approach
A supplementary workbook containing conceptual exercises in eleven different formats developing students' reasoning about physics and leading them to more effective quantitative problem solving.

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B Velocity in Two Dimensions
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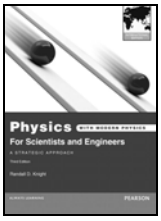

Physics for Scientists and Engineers with Modern Physics, 3/e

Randall D. Knight, California Polytechnic State University-San Luis Obispo

ISBN-10: 0321824083
ISBN-13: 9780321824080
1376pp ©2013 Paper

Basic Approach

As the most widely adopted new physics text in more than 50 years, Knight's Physics for Scientists and Engineers was published to widespread critical acclaim from professors and students. In the Third Edition, Knight builds on the research-proven instructional techniques he introduced in the first and second editions, as well as national data of student performance, to take student learning even further. Knight's unparalleled insight into student learning difficulties, and his impeccably skillful crafting of text and figures at every level–from macro to micro–to address these difficulties, results in a uniquely effective and accessible book, leading students to a deeper and better-connected understanding of the concepts and more proficient problem-solving skills.

For the Third Edition, Knight continues to apply the best results from educational research, and to refine and tailor them for this course and its students. New pedagogical features (Previews, Challenge Examples, and Data-based Examples), end-of- problem sets enhanced through analysis of national student metadata, fine-tuned and streamlined content, and an even more robust MasteringPhysics® program take the hallmarks of the previous editions–exceptionally effective conceptual explanation and problem-solving instruction–to a new level.

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Part VI. Electricity and Magnetism
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38. Quantization
39. Wave Functions and Uncertainty
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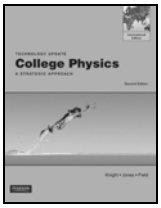
41. Atomic Physics
42. Nuclear Physics



College Physics: A Strategic Approach Technology, 2 / e

Randall D. Knight, *California Polytechnic State University-San Luis Obispo*
Brian Jones, *Colorado State University*
Stuart Field, *Colorado State University*

ISBN-10: 0321831845
ISBN-13: 9780321831842
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Basic Approach

Building on the research-proven instructional techniques introduced in Knight's **Physics for Scientists and Engineers,** the most widely adopted new physics text in more than 30 years, **College Physics: A Strategic Approach** set a new standard for algebra-based introductory physics–gaining widespread critical acclaim from professors and students alike.

For the **Second Edition,** Randy Knight, Brian Jones, and Stuart Field continue to apply the best results from educational research and refine and tailor them for this course and the particular needs of its students. **New pedagogical features** (Previews, Integrated Examples, and Part Summary problems) and **fine-tuned and streamlined content** take the hallmarks of the First Edition–exceptionally effective conceptual explanation and problem-solving instruction–to a new level. More than any other book, **College Physics** leads students to proficient and long-lasting problem-solving skills, a deeper and better-connected understanding of the concepts, and a broader picture of the relevance of physics to their chosen career and the world around them.

College Physics Technology Update, Second Edition, is accompanied by a significantly more robust **MasteringPhysics®**–the most advanced, educationally effective, and widely used online physics tutorial and homework system in the world. Additionally, more than 100 QR codes appear throughout the textbook, enabling students to use their smartphone or tablet to instantly watch interactive videos about relevant demonstrations or problem-solving strategies.

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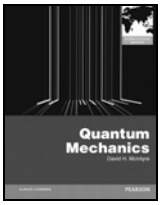

Quantum Mechanics, 1/e

David McIntyre

ISBN-10: 032179852X
ISBN-13: 9780321798527
592pp ©2013 Paper

Basic Approach

This innovative new text approaches Quantum Mechanics in a manner more closely aligned with the methods used in real modern physics research. Most texts start with a bit of history and then move directly to wave-particle problems with the incumbent heavy mathematical analysis; McIntyre, Manogue, and Tate aim to ground the student's knowledge in experimental phenomena and use a more approachable, less intimidating, more powerful mathematical matrix model.

Beginning with the Stern-Gerlach experiments and the discussion of spin measurements, and using bra-ket notation, **Quantum Mechanics** introduces students to an important notational system that is used throughout quantum mechanics. This non-traditional presentation is designed to enhance students' understanding and strengthen their intuitive grasp of the subject, and has been class tested extensively. The text takes advantage of the versatile SPINS software, which allows the student to simulate Stern-Gerlach measurements in succession. This interaction gets to the heart of Quantum Mechanics, and introduces the student to the mathematics they will be using throughout the course. A solid alternative to the classical texts currently available, it is designed for junior- to senior-level Quantum Mechanics courses taken by physics majors.

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1. Stern-Gerlach Experiments
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3. Schrödinger Time Evolution
4. Quantum Spookiness
5. Quantized Energies: Particle in a Box
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13. Identical Particles
14. Time dependent perturbation theory
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Lecture- Tutorials for Introductory Astronomy, 3/e

Edward E. Prather, *University of Arizona*
Tim P. Slater, *University of Arizona*
Jeff Adams, *Montana State University*
Gina Brissenden

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Electronics and Photonics for Scientists, 1/e

David W. Snoke

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ISBN-13: 9780321551337
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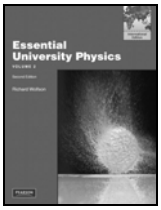

Essential University Physics, 2/e

Richard Wolfson, *Middlebury College*

ISBN-10: 0321714385
ISBN-13: 9780321761958
848pp ©2012 Paper

Basic Approach
Richard Wolfson's **Essential University Physics, Second Edition** is a concise and progressive calculus-based physics textbook that offers clear writing, great problems, and relevant real-life applications. This text is a compelling and affordable alternative for professors who want to focus on the fundamentals and bring physics to life for their students.

Essential University Physics focuses on the fundamentals of physics, teaches sound problem-solving skills, emphasizes conceptual understanding, and makes connections to the real world. The presentation is concise without sacrificing a solid introduction to calculus-based physics. New pedagogical elements have been introduced that incorporate proven results from physics education research. Features such as annotated figures and step-by-step problem-solving strategies help students master concepts and solve problems with confidence.

The **Second Edition** features dramatically revised and updated end-of- problem sets, significant content updates, new Conceptual Examples, and additional Applications, all of which serve to foster student understanding and interest.

Essential University Physics is offered as two paperback volumes, available shrink-wrapped together, or for sale individually.

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1. Doing Physics
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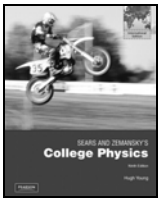
35. Quantum Mechanics
36. Atomic Physics
37. Molecules and Solids
38. Nuclear Physics
39. From Quarks to the Cosmos



College Physics, 9/e

Hugh D. Young, *Carnegie Mellon University*

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Basic Approach
For more than five decades, Sears and Zemansky's **College Physics** has provided the most reliable foundation of

physics education for students around the world. The **Ninth Edition** continues that tradition with new features that directly address the demands on today's student and today's classroom.

A broad and thorough introduction to physics, this new edition maintains its highly respected, traditional approach while implementing some new solutions to student difficulties. Many ideas stemming from educational research help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them. Math review has been expanded to encompass a full chapter, complete with end-of-chapter questions, and in each chapter biomedical applications and problems have been added along with a set of MCAT-style passage problems. Media resources have been strengthened and linked to the Pearson eText, MasteringPhysics®, and much more.

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25 Optical Instruments
26 Interference and Diffraction
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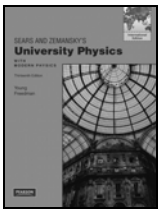
29 Atoms, Molecules, and Solids
30 Nuclear and High-Energy Physics



University Physics with Modern Physics, 13/e

Hugh D. Young, *Carnegie Mellon University*
Roger A. Freedman, *University of California, Santa Barbara*
A. Lewis Ford

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Basic Approach

University Physics with Modern Physics, Thirteenth Edition continues to set the benchmark for clarity and rigor combined with effective teaching and research-based innovation.

University Physics is known for its uniquely broad, deep, and thoughtful set of worked examples–key tools for developing both physical understanding and problem-solving skills. The Thirteenth Edition revises all the Examples and Problem-Solving Strategies to be more concise and direct while maintaining the Twelfth Edition's consistent, structured approach and strong focus on modeling as well as math. To help students tackle challenging as well as routine problems, the Thirteenth Edition adds Bridging Problems to each chapter, which pose a difficult, multiconcept problem and provide a skeleton solution guide in the form of questions and hints.

The text's rich problem sets–developed and refined over six decades–are upgraded to include larger numbers of problems that are biomedically oriented or require calculus. The problem-set revision is driven by detailed student-performance data gathered nationally through MasteringPhysics®, making it possible to fine-tune the reliability, effectiveness, and difficulty of individual problems.

Complementing the clear and accessible text, the figures use a simple graphic style that focuses on the physics. They also incorporate explanatory annotations–a technique demonstrated to enhance learning.

This text is available with MasteringPhysics–the most widely used, educationally proven, and technically advanced tutorial and homework system in the world.

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MECHANICS
1. Units, Physical Quantities, and Vectors
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40. Quantum Mechanics
41. Atomic Structure
42. Molecules and Condensed Matter
43. Nuclear Physics
44. Particle Physics and Cosmology

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Paramedic Transition and Refresher, 1/e

Daniel Batsie
Daniel J. Limmer, *Southern Maine Technical College*
Joseph J. Mistovich

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Basic Approach
For courses in EMS continuing education.

Transition Series: Topics for the Paramedic is designed to act as a transition guide between the 1998 U.S. Department of Transportation's Emergency Medical Technician-Paramedic National Standard Curriculum and the 2009 Paramedic National EMS Education Standards. Providing a timely, topical continuing education guide, this book provides both and overview of new information found in the Education Standards and the Paramedic level and provides a source of continuing education for practicing Paramedics.

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8	Anatomy and Physiology – The Nervous System

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9	Medical Terminology

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12	Pathophysiology: Part 3 (The Cardiovascular System)

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13	Life Span Development

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14	Public Health

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17	Airway Management – Assessment and Airway Decision Making
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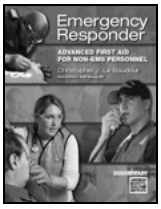

Emergency Responder: Advanced First Aid for Non EMS Personnel, 1/e

Chris Le Baudour, *Assessment Training Institute, Inc.*

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ISBN-13: 9780131712140
288pp ©2012 Paper

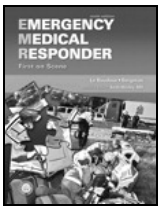
Basic Approach
For courses in Emergency Responder Training.

Emergency Responder: Advanced First Aid for Non-EMS Personnel is not just another first-aid book. Designed for working professionals, this flexible program blends textbook with online modules and instructor-led hands-on training events. Drawing from their years of experience training and developing emergency response teams, the authors cover the most important skills needed in order to effectively respond to life-threatening events. Carefully

designed skill sheets included in the text assist readers in developing the competency necessary to perform each skill with accuracy and confidence. Establishing a foundation in the basic concepts of emergency medical care, the text presents in a logical, easy-to-follow format many of the most common illnesses and injuries responders are likely to encounter. The authors provide realistic depth and breadth of information in a way that will make you successful caring for people who have fallen victim to sudden illness or injury.

Table of Contents

1 Introduction to EMS Systems and the Role of the First Responder
2 Legal and Ethical Principles of Emergency Care
3 The Wellness and Safety of the First Responder
4 Introduction to Anatomy
5 Principles of Lifting, Moving, and Positioning Ill or Injured People
6 Airway Management and Rescue Breathing
7 Principles of Assessment
8 Caring for Medical Emergencies
9 Caring for Soft-Tissue Injuries and Shock
10 Caring for Muscle and Bone Injuries
11 Caring for Injuries to the Head and Spine
12 Multiple-Casualty Incidents and Principles of Triage
13 Childbirth



Emergency Medical Responder: First on Scene and Resource Central EMS Student Access Code Card Package, 9/e

Chris Le Baudour, *Assessment Training Institute, Inc.*
J. David Bergeron
Gloria Bizjak
Keith Wesley

ISBN-10: 0132833352
ISBN-13: 9780132833356
672pp ©2012 Kit/Package/ShrinkWrap

Basic Approach
For courses in First Responder and Emergency Medical Services.

The leader in the field, *Emergency Medical Responder, Ninth Edition*, provides clear first responder-level training for fire service, emergency, law enforcement, military, civil, and industrial personnel. The new ninth edition retains many successful features from previous editions and includes new topics and concepts that have recently become part of most Emergency Medical Responder programs. The foundation of this text is the new National Emergency Medical Services Education Standards for Emergency Medical Responder, and it also includes the 2010 American Heart Association guidelines for Cardiopulmonary Resuscitation and First Aid.

Table of Contents

Module 1
1 – Introduction to EMS Systems
2 – Legal and Ethical Principles of Emergency Care
3 – Wellness and Safety of the Emergency Medical Responder
4 – Introduction to Medical Terminology, Human Anatomy, and Lifespan Development

Module 2
5 – Principles of Lifting, Moving and Positioning of Patients
6 – Principles of Effective Communication
7 – Principles of Effective Documentation

Module 3
8 – Airway Management & Ventilation
9 – Oxygen Therapy

Module 4
10 – Resuscitation and the use of the Automated External Defibrillator

Module 5
11 – ObtainingVital Signs & History
12 – Principles of Patient Assessment

Module 6
13 – Caring for Cardiac Emergencies
14 – Caring for Respiratory Emergencies
15 – Caring for Common Medical Emergencies
16 – Caring for Environmental Emergencies

Module 7
17 – Caring for Soft Tissue Injuries & Bleeding
18 – Recognition and Care of Shock
19 – Caring for Muscle and Bone Injuries
20 – Caring for Head and Spine Injuries

21 – Caring for Chest & Abdominal Injuries

Module 8
22 — Care During Pregnancy and Childbirth

Module 9
23 — Caring for Infants and Children
24 — Special Considerations for the Geriatric Patient

Module 10
25 — Introduction to EMS Operations & Hazardous Response
26 – Introduction to Multiple – Casualty Incidents, the Incident Command System, and Triage

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EMR Complete Update, 1/e
Daniel T. Limmer
Edward T. Dickinson

ISBN-10: 0132933608
ISBN-13: 9780132933605
888pp ©2013 Paper

Transition Series: Topics for the Advanced EMT, 1/e
Daniel J. Limmer, *Southern Maine Technical College*
Joseph J. Mistovich

ISBN-10: 0137082487
ISBN-13: 9780137082483
432pp ©2013 Paper

Basic Approach
For Advanced EMT Refresher course, Continuing Education or courses in Advanced EMT.

Transition Series: Topics for the Advanced EMT provides both an overview of new information contained within the Education Standards at the AEMT level and a source of continuing education for practicing AEMTs. The text integrates new "topics" that were not contained in the prior curricula and previous "topics" that are presented at a much greater depth and breadth. The EMT and AEMT educated and trained under the new Education Standards will be provided with a much greater foundation of knowledge for practicing pre-hospital care.

Table of Contents

Preparatory
- Research and EMS
- Workforce Safety and Wellness
- Therapeutic Communication
- Legal Issues in EMS

Anatomy and Physiology
- Anatomy and Physiology: Cellular Metabolism

Medical Terminology
- Medical Terminology

Pathophysiology
- Ambient Air, Airway, and Mechanics of Ventilation
- Regulation of Ventilation, Ventilation/Perfusion Ratio, and Transport of Gases
- Blood, Cardiac Function, and Vascular System

Life Span Development
- Life Span Development

Public Health
- Public Health and EMS

Principles of Pharmacology
- EMS Pharmacology

Airway Management, Respiration, and Artificial Ventilation
13 Issues in Airway Management, Oxygenation, and Ventilation

Patient Assessment
14 Critical Thinking
15 Assessment of the Trauma Patient
16 Assessment of the Medical Patient

Medicine

17 Neurology: Altered Mental Status
18 Neurology: Stroke
19 Neurology: Seizures
20 Abdominal Emergencies and Gastrointestinal Bleeding
21 Anaphylactic and Anaphylactoid Reactions
22 Infectious Disease
23 Endocrine Emergencies: Diabetes Mellitus and Hypoglycemia
24 Endocrine Emergencies: Hyperglycemic Disorders
25 Psychiatric Disorders
26 Cardiovascular Emergencies: Chest Pain and Acute Coronary Syndrome
27 Cardiovascular Emergencies: Congestive Heart Failure
28 Cardiovascular Emergencies: Hypertensive and Vascular Emergencies
29 Toxicology: Street Drugs
30 Respiratory Emergencies: Airway Resistance Disorders
31 Respiratory Emergencies: Lung and Gas Exchange Disorders
32 Respiratory Emergencies: Infectious Disorders
33 Hematology: Blood Disorders
34 Renal Disorders
35 Gynecologic Emergencies
36 Emergencies Involving the Eyes, Ears, Nose, and Throat

Shock and Resuscitation

37 Issues in Cardiac Arrest and Resuscitation
38 Shock

Trauma

39 Bleeding and Bleeding Control
40 Chest Trauma
41 Abdominal Trauma
42 Soft Tissue Injuries: Crush Injury and Compartment Syndrome
43 Orthopedic Trauma
44 Head and Traumatic Brain Injury
45 Complete and Incomplete Spine and Spinal Cord Injuries
46 Trauma in Special Populations: Pediatrics
47 Trauma in Special Populations: Geriatrics
48 Trauma in Special Populations: Pregnancy
49 Diving Emergencies: Decompression Sickness and Arterial Embolism
50 Lightning Strike Injuries

Special Patient Populations

51 Obstetrics (Antepartum Complications)
52 Neonatology
53 Pediatrics
54 Geriatrics
55 Special Challenges
56 Bariatric Emergencies

EMS Operations

57 Safely Operating an Ambulance
58 Multiple-Casualty Incidents and Incident Management
59 Advanced Skills for the AEMT
60 Additional AEMT Medications
61 ECG Monitoring and Interpretation

Transition Series: Topics for the EMT, 1/e

Daniel J. Limmer, *Southern Maine Technical College*
Joseph J. Mistovich

ISBN-10: 0135113512
ISBN-13: 9780135113516
408pp ©2012 Paper

Basic Approach

For courses in EMT Training.

Transition Series: Topics for the EMT provides both an overview of new information contained within the *Education Standards* at the EMT level and a source of continuing education for practicing EMTs. Intended for a new generation of EMTs, the text integrates new "topics" that were not contained in the EMT-B curriculum and existing "topics" at a much greater depth and breadth than what was contained in the typical EMT-Basic education program. Educating and training EMTs using the new *Education Standards,* this text provides a solid foundation of knowledge to practice pre-hospital care.

Table of Contents

Preparatory

1. Workforce Safety and Wellness
2. Therapeutic Communication
3. Legal Issues in EMS

Anatomy and Physiology

4. Anatomy and Physiology: Cellular Metabolism

Medical Terminology
5. Medical Terminology

Pathophysiology
6. Ambient Air, Airway, and Mechanics of Ventilation
7. Regulation of Ventilation, Ventilation/Perfusion Ratio, and Transport of Gases
8. Blood, Cardiac Function, and Vascular System

Lifespan Development
9. Lifespan Development

Public Health
10. Public Health and EMS

Pharmacology
11. EMS Pharmacology

Airway Management, Respiration, and Artificial Ventilation
12. Issues in Airway Management, Oxygenation, and Ventilation

Assessment
13. Primary Assessment, Secondary Assessment, Taking a History, and Reassessment
14. Trauma Assessment
15. Medical Assessment

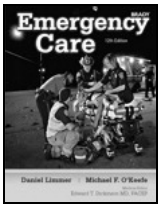
Medicine
16. Neurology: Altered Mental Status
17. Neurology: Stroke
18. Neurology: Seizures
19. Abdominal Injuries and Gastrointestinal Bleeding
20. Immunology: Anaphylactic and Anaphylactoid Reactions
21. Endocrine Emergencies: Diabetes Mellitus and Hypoglycemia
22. Endocrine Emergencies: Hyperglycemic Disorders
23. Psychiatric Disorders
24. Cardiovascular Emergencies: Chest Pain and Acute Coronary Syndrome
25. Cardiovascular Emergencies: Congestive Heart Failure
26. Cardiovascular Emergencies: Hypertensive and Vascular Emergencies
27. Toxicology: Street Drugs
28. Respiratory Emergencies: Airway Resistance Disorders
29. Respiratory Emergencies: Lung and Gas Exchange Disorders
30. Respiratory Emergencies: Infectious Disorders
31. Hematology: Blood Disorders
32. Renal Disorders
33. Gynecologic Emergencies
34. Emergencies Involving the Eyes, Ears, Nose, and Throat

Shock and Resuscitation
35. Issues in Cardiac Arrest and Resuscitation
36. Shock

Trauma
37. Bleeding and Bleeding Control
38. Chest Trauma
39. Abdominal Trauma
40. Soft Tissue Injuries: Crush Injury and Compartment Syndrome
41. Orthopedic Trauma
42. Head and Traumatic Brain Injury
43. Complete and Incomplete Spine and Spinal Cord Injuries
44. Trauma in Special Populations: Pediatrics
45. Trauma in Special Populations: Geriatrics
46. Trauma in Special Populations: Pregnancy
47. Diving Emergencies: Decompression Sickness and Arterial Embolism
48. Lightning Strike Injuries

Special Patient Populations
49. Obstetrics (Antepartum Complications)
50. Neonatology
51. Pediatrics
52. Geriatrics
53. Special Challenges

EMS Operations
54. Safely Operating an Ambulance
55. Multiple Casualty Incident and Incident Management



Emergency Care and Resource Central EMS Student Access Code Card Package, 12/e

Daniel J. Limmer, *Southern Maine Technical College*
Michael F. O'Keefe, *Department of Health*
Harvey T. Grant
Bob Murray
J. David Bergeron
Edward T. Dickinson

ISBN-10: 0132824418
ISBN-13: 9780132824415
1280pp ©2012 Paper

Basic Approach
For courses in Emergency Medical Technician Training, Emergency Medical Services.

Emergency Care, Twelfth Edition, has set the standard for EMT training for over 30 years. Updated with the latest research and developments in emergency medical services, this edition meets the 2010 American Heart Association guidelines for CPR and ECC, providing all the practical information students need to succeed in the classroom and in the field. Using the National EMS Education Standards as a foundation, this edition goes beyond the Standards to provide the most current, accurate reflection of EMS practice today. Getting students to think like an EMT, the text integrates scientific principles in a way that's easy to understand, and a host of critical thinking features–including a new , "Critical Thinking and Decision Making,"–helps students learn key concepts while getting a dose of the reality of being an EMT.

Table of Contents

Section 1 — Foundations
1. Introduction to Emergency Medical Services and the Health Care System
2. The Well-being of the EMT
3. Lifting and Moving Patients
4. Medical, Legal, and Ethical Issues
5. Medical Terminology and Anatomy and Physiology
6. Principles of Pathophysiology
7. Life Span Development

Section 2 — Airway Management, Respiration, and Artificial Ventilation
1. Airway Management
2. Respiration and Artificial Ventilation (Sample)

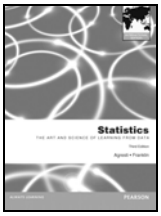
Section 3 — Patient Assessment
1. Scene Size-up
2. The Primary Assessment
3. Vital Signs and Monitoring Devices
4. Assessment of the Trauma Patient (includes history-taking specific to the trauma patient)
5. Assessment of the Medical Patient (includes history-taking specific to the medical patient)
6. Reassessment
7. Critical Thinking and Decision Making
8. Communication and Documentation

Section 4 — Medical Emergencies
1. General Pharmacology
2. Respiratory Emergencies
3. Cardiac Emergencies
4. Diabetic Emergencies and Altered Mental Status
5. Allergic Reaction
6. Poisoning and Overdose Emergencies
7. Abdominal Emergencies
8. Behavioral and Psychiatric Emergencies and Suicide
9. Hematologic and Renal Emergencies

Section 5 — Trauma Emergencies
1. Bleeding and Shock
2. Soft Tissue Trauma
3. Chest and Abdominal Trauma
4. Musculoskeletal Trauma
5. Trauma to the Head, Neck, and Spine
6. Multisystem Trauma
7. Environmental Emergencies

Section 6 — Special Populations
1. Obstetric and Gynecologic Emergencies
2. Pediatric Emergencies
3. Geriatric Emergencies
4. Emergencies for Patients with Special Challenges

Section 7 — Operations
1. EMS Operations
2. Hazardous Materials, Multiple-Casualty Incidents, and Incident Management
3. Highway Safety and Vehicle Extrication
4. EMS Response to Terrorism



Statistics: The Art and Science of Learning from Data, 3/e

Alan Agresti
Christine Franklin

ISBN-10: 0321805747
ISBN-13: 9780321805744
832pp ©2013 Paper

Basic Approach
Statistics: The Art and Science of Learning from Data, Third Edition, helps students become statistically literate by encouraging them to ask and answer interesting statistical questions. This book takes the ideas that have turned statistics into a central science in modern life and makes them accessible without compromising necessary rigor. Authors Alan Agresti and Christine Franklin believe that it's important for students to learn and analyze both quantitative and categorical data. As a result, the text pays greater attention to the analysis of proportions than many other introductory statistics texts. Concepts are introduced first with categorical data, and then with quantitative data.

The **Third Edition** has been edited for conciseness and clarity to keep students focused on the main concepts. The data-rich examples that feature intriguing human-interest topics now include topic labels to indicate which statistical topic is being applied. New learning objectives for each appear in the Instructor's Edition, making it easier to plan lectures and 7 (Sampling Distributions) now incorporates simulations in addition to the mathematical formulas.

Table of Contents

Part 1: Gathering and Exploring Data

1. Statistics: The Art and Science of Learning from Data
2. Exploring Data with Graphs and Numerical Summaries
3. Association: Contingency, Correlation, and Regression
4. Gathering Data

Part 2: Probability, Probability Distributions, and Sampling Distributions

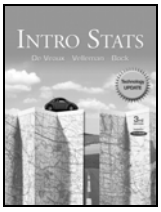
5. Probability in Our Daily Lives
6. Probability Distributions
7. Sampling Distributions

Part 3: Inferential Statistics

8. Statistical Inference: Confidence Intervals
9. Statistical Inference: Significance Tests about Hypotheses
10. Comparing Two Groups

Part 4: Analyzing Association and Extended Statistical Methods

11. Analyzing the Association Between Categorical Variables
12. Analyzing the Association Between Quantitative Variables: Regression Analysis
13. Multiple Regression
14. Comparing Groups: Analysis of Variance Methods
15. Nonparametric Statistics



Intro Stats Technology Update, 3/e

Richard D. De Veaux, *Williams College*
Paul F. Velleman, *Cornell University*
David E. Bock, *Cornell University*

ISBN-10: 0321699122
ISBN-13: 9780321699121
864pp ©2012 Paper

Basic Approach
Intro Stats, Third Edition extends the teaching innovations pioneered in the DeVeaux/Velleman/Bock books. Its focus on statistical thinking and modern practice are evident throughout. Each opens with an example—and the data from that example are then displayed and analyzed to introduce new concepts. Graphics and summaries introduced in early s are used throughout the book, helping students become consistent statistical thinkers.

Intro Stats, Third Edition has a fun, conversational writing style, real up-to-date data, hundreds of examples based on current events, and short, accessible s. The innovative Think/Show/Tell examples, pioneered in the first

edition, now present new data and discussions. The new For Example sections illustrate each new concept or method with a brief, worked example.

This **Technology Update Edition** has been created to reflect the many changes in statistical technology. It includes updated "On the Computer" instruction at the end of every , now including StatCrunch and R. The expanded supplements package includes an updated MyStatLab course with new statistical tools and additional exercises. Additionally, **Videos on DVD** are now bound into new copies of the textbook. These videos offer an introductory lecture delivered by an author along with instructor-delivered worked examples for each of the text.

This text covers all material typical in a one-semester statistics course, with supplemental s on analysis of variance (ANOVA) and multiple regression included on the book's DVD-ROM. The text maintains its commitment to the recommendations of the ASA-endorsed GAISE (Guidelines for Assessment for Instruction in Statistical Education) Report.

Datasets and other resources (where applicable) for this book are available here.

Table of Contents

I. Exploring and Understanding Data
1. Stats Starts Here
2. Data
3. Displaying and Describing Categorical Data
4. Displaying and Summarizing Quantitative Data
5. Understanding and Comparing Distributions
6. The Standard Deviation as a Ruler and the Normal Model
Review of Part I: Exploring and Understanding Data

II. Exploring Relationships between Variables
7. Scatterplots, Association, and Correlation
8. Linear Regression
9. Regression Wisdom
10. Re-expressing Data: Get It Straight!
Review of Part II: Exploring Relationships Between Variables

III. Gathering Data
11. Understanding Randomness
12. Sample Surveys
13. Experiments and Observational Studies
Review of Part III: Gathering Data

IV. Randomness and Probability
14. From Randomness to Probability
15. Probability Rules!
16. Random Variables
17. Probability Models
Review of Part IV: Randomness and Probability

V. From the Data at Hand to the World At Large
18. Sampling Distribution Models
19. Confidence Intervals for Proportions
20. Testing Hypotheses about Proportions
21. More about Tests
22. Comparing Two Proportions
Review of Part V: From the Data at Hand to the World at Large

VI. Learning about the World
23. Inferences about Means
24. Comparing Means
25. Paired Samples and Blocks
Review of Part VI: Learning About the World

VII. Inference When Variables are Related
26. Comparing Counts
27. Inferences for Regression
Review of Part VII: Inference When Variables Are Related
28. Analysis of Variance—on the CD
29. Multiple Regression—on the CD

Stats: Data and Models, 3/e

Richard D. De Veaux, *Williams College*
Paul F. Velleman, *Cornell University*
David E. Bock, *Cornell University*

ISBN-10: 0321753720
ISBN-13: 9780321753724
976pp ©2012 Paper

Basic Approach

Stats: Data and Models, Third Edition, will intrigue and challenge students by encouraging them to think statistically and by emphasizing how statistics helps us understand the world. Praised by students and instructors alike for its readability and ease of comprehension, this text focuses on statistical thinking and data analysis. The authors draw from their wealth of consulting experience to craft compelling examples, which encourage students to learn how to reason with data. This book is organized into short s that concentrate on one topic at a time, offering instructors maximum flexibility in planning their courses.

The book is appropriate for a one-or-two semester introductory statistics course and includes advanced topics, such as Analysis of Variance (ANOVA), Multiple Regression, and Nonparametrics.

Datasets and other resources (where applicable) for this book are available at www.pearsonhighered.com/dvb

Table of Contents

I. Exploring and Understanding Data
1. Stats Starts Here
2. Data
3. Displaying and Describing Categorical Data
4. Displaying and Summarizing Quantitative Data
5. Understanding and Comparing Distributions
6. The Standard Deviation as a Ruler and the Normal Model
Review of Part I: Exploring and Understanding Data

II. Exploring Relationships between Variables
7. Scatterplots, Association, and Correlation
8. Linear Regression
9. Regression Wisdom
10. Re-expressing Data: Get It Straight!
Review of Part II: Exploring Relationships Between Variables

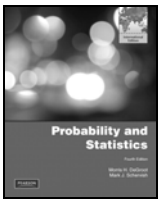
III. Gathering Data
11. Understanding Randomness
12. Sample Surveys
13. Experiments and Observational Studies
Review of Part III: Gathering Data

IV. Randomness and Probability
14. From Randomness to Probability
15. Probability Rules!
16. Random Variables
17. Probability Models
Review of Part IV: Randomness and Probability

V. From the Data at Hand to the World At Large
18. Sampling Distribution Models
19. Confidence Intervals for Proportions
20. Testing Hypotheses about Proportions
21. More About Tests and Intervals
22. Comparing Two Proportions
Review of Part V: From the Data at Hand to the World at Large

VI. Learning about the World
23. Inferences about Means
24. Comparing Means
25. Paired Samples and Blocks
Review of Part VI: Learning About the World

VII. Inference When Variables are Related
26. Comparing Counts
27. Inferences for Regression
28. Analysis of Variance
29. Multifactor Analysis of Variance
30. Multiple Regression
31. Multiple Regression Wisdom
Review of Part VII: Inference When Variables Are Related



Probability and Statistics, 4/e

Morris H. DeGroot
Mark J. Schervish, *Carnegie-Mellon University*

ISBN-10: 0321709705
ISBN-13: 9780321709707
912pp ©2012 Paper

Basic Approach
The revision of this well-respected text presents a balanced approach of the classical and Bayesian methods and now includes a on simulation (including Markov chain Monte Carlo and the Bootstrap), coverage of residual

analysis in linear models, and many examples using real data.

Probability & Statistics, Fourth Edition, was written for a one- or two-semester probability and statistics course. This course is offered primarily at four-year institutions and taken mostly by sophomore and junior level students majoring in mathematics or statistics. Calculus is a prerequisite, and a familiarity with the concepts and elementary properties of vectors and matrices is a plus.

Table of Contents

1. Introduction to Probability
2. Conditional Probability
3. Random Variables and Distributions
4. Expectation
5. Special Distributions
6. Large Random Samples
7. Estimation
8. Sampling Distributions of Estimators
9. Testing Hypotheses
10. Categorical Data and Nonparametric Methods
11. Linear Statistical Models
12. Simulation

Statistics with Microsoft Excel, 5/e

Beverly Dretzke

ISBN-10: 0321783379
ISBN-13: 9780321783370
288pp ©2012 Paper

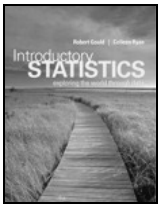
Basic Approach

Statistics with Microsoft Excel, Fifth Edition, shows readers how to use Microsoft Excel® to perform statistical analysis. This step-by-step guide has been updated to cover the new features and interface of Excel 2010.

Datasets and other resources (where applicable) for this book are available here.

Table of Contents

1. Getting Started
2. Entering, Editing, and Recoding Information
3. Formulas
4. Frequency Distributions
5. Descriptive Statistics
6. Probability Distributions
7. Testing Hypotheses About One Sample Means
8. Testing Hypotheses About the Difference Between Two Means
9. Analysis of Variance
10. Correlation
11. Regression
12. Cross Tabulations
13. Random Samples



Introductory Statistics: Exploring the World Through Data, 1/e

Robert Gould, *UCLA*
Colleen N. Ryan, *California Lutheran University*

ISBN-10: 0321322150
ISBN-13: 9780321322159
736pp ©2013 Cloth

Basic Approach

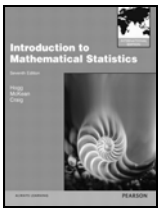
We live in a data-driven world, and this is a book about understanding and working with that data. In order to be informed citizens, authors Rob Gould and Colleen Ryan believe that learning statistics extends beyond the classroom to an essential life skill. They teach students of all math backgrounds how to think about data, how to reason about data, and how to make decisions based on data.

With a clear, unintimidating writing style carefully-chosen pedagogy, **Introductory Statistics: Exploring the World through Data** makes data analysis accessible to all students. **Guided Exercises** support students by building their confidence as they learn to solve problems. **Snapshots** summarize statistical procedures and concepts for convenient studying. While this text assumes the use of statistical software, formulas are presented as an aid to understanding the concepts rather than the focus of study. **Check Your Tech** features demonstrate how students will get the same numerical value by-hand as when using statistical software.

The robust ancillary package–including the authors' teaching notes, author-to-instructor podcasts, lecture-ready PowerPoint® Slides, MyStatLab, and more-–helps any instructor to teach a modern course in statistics.

Table of Contents

1. Introduction to Data
2. Picturing Variation with Graphs
3. Numerical Summaries of Center and Variation
4. Regression Analysis: Exploring Associations between Variables
5. Modeling Variation with Probability
6. Modeling Random Events: The Normal and Binomial Models
7. Survey Sampling and Inference
8. Hypothesis Testing for Population Proportions
9. Inferring Population Means
10. Associations between Categorical Variables
11. Multiple Comparisons and Analysis of Variance
12. Experimental Design: Controlling Variation
13. Inference without Normality
14. Inference for Regression



Introduction to Mathematical Statistics, 7/e

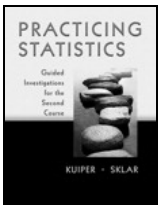
Robert V. Hogg
Joeseph McKean
Allen T Craig

ISBN-10: 0321824679
ISBN-13: 9780321824677
640pp ©2013 Paper

Basic Approach
Introduction to Mathematical Statistics, Seventh Edition, provides students with a comprehensive introduction to mathematical statistics. Continuing its proven approach, the Seventh Edition has been updated with new examples, exercises, and content for an even stronger presentation of the material.

Table of Contents

1. Probability and Distributions.
2. Multivariate Distributions.
3. Some Special Distributions.
4. Some Elementary Statistical Inferences
5. Consistency and Limiting Distributions
6. Maximum Likelihood Methods.
7. Sufficiency.
8. Optimal Tests of Hypotheses.
9. Inferences about Normal Models.
10. Nonparametric and Robust Statistics.
11. Bayesian Statistics.



Practicing Statistics: Guided Investigations for the Second Course, 1/e

Shonda Kuiper, *Grinnell College*
Jeff Sklar

ISBN-10: 0321586018
ISBN-13: 9780321586018
432pp ©2013 Paper

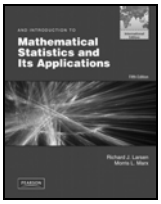
Basic Approach
Building on the introductory course, **Practicing Statistics: Guided Investigations for the Second Course** presents a variety of compelling topics for a second course in statistics, such as multiple regression, nonparametric methods, and survival analysis. Every topic is introduced in the context of a real-world research question, asking students to explore the concepts firsthand with guided activities and research projects.

The number of students taking AP Statistics continues to rise, and the number of students taking an introductory statistics course has more than doubled since 1990. As a result, the goals of the second course have changed. This course must engage students from multiple disciplines and demonstrate the broad applicability of statistics to their lives. **Practicing Statistics** takes an inquiry-based approach that teaches advanced statistical techniques through group work and hands-on exploration using real research questions.

The contents are modular, so that instructors can select only the topics relevant to their course, and teach them in any order. The only prerequisite is an algebra-based introductory statistics or AP statistics course.

Table of Contents

1. Nonparametric Methods: Schistosomiasis
2. Making Connections: The Two-Sample t-Test, Regression, and ANOVA
3. Multiple Regression: How Much Is Your Car Worth?
4. The Design and Analysis of Factorial Experiments: Microwave Popcorn
5. Block, Split-Plot, and Repeated Measures Designs: What Influences Memory?
6. Categorical Data Analysis: Is a Tumor Malignant or Benign?
7. Logistic Regression: The Space Shuttle Challenger
8. Poisson Log-Linear Regression: Detecting Cancer Clusters
9. Survival Analysis: Melting Chocolate Chips
10. Principal Component Analysis: Stock Market Values
11. Bayesian Data Analysis: What Colors Come in Your M&M's Candy Bag?



Introduction to Mathematical Statistics and Its Applications, 5/e

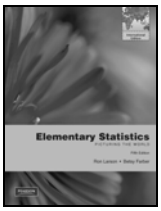
Richard J. Larsen, *Vanderbilt University*
Morris L. Marx, *University of West Florida*

ISBN-10: 0321766563
ISBN-13: 9780321766564
768pp ©2012 Paper

Basic Approach
Noted for its integration of real-world data and case studies, this text offers sound coverage of the theoretical aspects of mathematical statistics. The authors demonstrate how and when to use statistical methods, while reinforcing the calculus that students have mastered in previous courses. Throughout the **Fifth Edition,** the authors have added and updated examples and case studies, while also refining existing features that show a clear path from theory to practice.

Table of Contents

1. Introduction
2. Probability
3. Random Variables
4. Special Distributions
5. Estimation
6. Hypothesis Testing
7. Inferences Based on the Normal Distribution
8. Types of Data: A Brief Overview
9. Two-Sample Inferences
10. Goodness-of-Fit Tests
11. Regression
12. The Analysis of Variance
13. Randomized Block Designs
14. Nonparametric Statistics



Elementary Statistics: Picturing the World, 5/e

Ron Larson, *Penn State University at Erie*
Betsy Farber, *Bucks County Community College*

ISBN-10: 0321709977
ISBN-13: 9780321709974
784pp ©2012 Paper

Basic Approach
Elementary Statistics: Picturing the World, Fifth Edition, offers our most accessible approach to statistics—with more than 750 graphical displays that illustrate data, students are able to visualize key statistical concepts immediately. Adhering to the philosophy that students learn best by doing, this book relies heavily on examples–25% of the examples and exercises are new for this edition. Larson and Farber continue to demonstrate that statistics is all around us and that it's easy to understand.

Table of Contents

Part One. Descriptive Statistics

1. Introduction to Statistics
2. Descriptive Statistics

Part Two. Probability & Probability Distributions

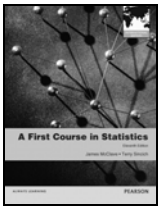
3. Probability
4. Discrete Probability Distributions
5. Normal Probability Distributions

Part Three. Statistical Inference

6. Confidence Intervals
7. Hypothesis Testing with One Sample
8. Hypothesis Testing with Two Samples

Part Four. More Statistical Inference

9. Correlation and Regression
10. Chi-Square Tests and the *F*-Distribution
11. Nonparametric Tests



First Course in Statistics, A, 11/e

James T. McClave
Terry Sincich

ISBN-10: 0321807278
ISBN-13: 9780321807274
624pp ©2013 Paper

Basic Approach
Classic, yet contemporary. Theoretical, yet applied. McClave & Sincich's **Statistics: A First Course in Statistics** gives you the best of both worlds. This text offers a trusted, comprehensive introduction to statistics that emphasizes inference and integrates real data throughout. The authors stress the development of statistical thinking, the assessment of credibility, and value of the inferences made from data.
The **Eleventh Edition** infuses a new focus on ethics, which is critically important when working with statistical data. Summaries have a new, study-oriented design, helping students stay focused when preparing for exams. Data, exercises, technology support, and Statistics in Action cases are updated throughout the book. In addition, MyStatLab will have increased exercise coverage and two new banks of questions to draw from: Getting Ready for Stats and Conceptual Question Library.
Ideal for one- or two-semester courses in introductory statistics, this text assumes a mathematical background of basic algebra. Flexibility is built in for instructors who teach a more advanced course, with optional footnotes about calculus and the underlying theory.

Table of Contents

1. Statistics, Data, and Statistical Thinking
2. Methods for Describing Sets of Data
3. Probability
4. Random Variables and Probability Distributions
5. Inferences Based on a Single Sample: Estimation with Confidence Intervals
6. Inferences Based on a Single Sample: Tests of Hypothesis
7. Comparing Population Means
8. Comparing Population Proportions
9. Simple Linear Regression

Statistics, 12/e

James T. McClave
Terry Sincich

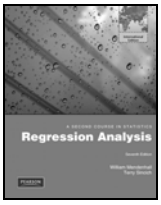
ISBN-10: 0321807286
ISBN-13: 9780321807281
840pp ©2013 Paper

Basic Approach
Classic, yet contemporary. Theoretical, yet applied. McClave & Sincich's **Statistics** gives you the best of both worlds. This text offers a trusted, comprehensive introduction to statistics that emphasizes inference and integrates real data throughout. The authors stress the development of statistical thinking, the assessment of credibility, and value of the inferences made from data.
The **Twelfth Edition** infuses a new focus on ethics, which is critically important when working with statistical data. Summaries have a new, study-oriented design, helping students stay focused when preparing for exams. Data, exercises, technology support, and Statistics in Action cases are updated throughout the book. In addition, MyStatLab will have increased exercise coverage and two new banks of questions to draw from: Getting Ready for Stats and Conceptual Question Library.
Ideal for one- or two-semester courses in introductory statistics, this text assumes a mathematical background of basic algebra. Flexibility is built in for instructors who teach a more advanced course, with optional footnotes about calculus and the underlying theory.

Table of Contents

1. Statistics, Data, and Statistical Thinking
2. Methods for Describing Sets of Data
3. Probability

4. Discrete Random Variables
5. Continuous Random Variables
6. Sampling Distributions
7. Inferences Based on a Single Sample: Estimation with Confidence Intervals
8. Inferences Based on a Single Sample: Tests of Hypothesis
9. Inferences Based on a Two Samples: Confidence Intervals and Tests of Hypotheses
10. Analysis of Variance: Comparing More Than Two Means
11. Simple Linear Regression
12. Multiple Regression and Model Building
13. Categorical Data Analysis
14. Nonparametric Statistics*
*This is included on the CD-ROM that comes with the textbook.



Second Course in Statistics, A: Regression Analysis, 7/e

William Mendenhall, *University of Florida*
Terry Sincich, *University of South Florida*

ISBN-10: 0321748247
ISBN-13: 9780321748249
816pp ©2012 Paper

Basic Approach

The Second Course in Statistics is an increasingly important offering since more students are arriving at college having taken AP Statistics in high school. **Mendenhall/Sincich's A Second Course in Statistics** is the perfect book for courses that build on the knowledge students gain in AP Statistics, or the freshman Introductory Statistics course.

A Second Course in Statistics: Regression Analysis, Seventh Edition, focuses on building linear statistical models and developing skills for implementing regression analysis in real situations. This text offers applications for engineering, sociology, psychology, science, and business. The authors use real data and scenarios extracted from news articles, journals, and actual consulting problems to show how to apply the concepts. In addition, seven case studies, now located throughout the text after applicable s, invite students to focus on specific problems, and are suitable for class discussion.

Table of Contents

1. A Review of Basic Concepts (Optional)
2. Introduction to Regression Analysis
3. Simple Linear Regression
4. Multiple Regression Models
5. Principles of Model Building
6. Variable Screening Methods
7. Some Regression Pitfalls
8. Residual Analysis
9. Special Topics in Regression (Optional)
10. Introduction to Time Series Modeling and Forecasting
11. Principles of Experimental Design
12. The Analysis of Variance for Designed Experiments

IBM SPSS Statistics 19 Advanced Statistical Procedures Companion, 1/e

Marija Norusis
Inc. SPSS

ISBN-10: 0321748433
ISBN-13: 9780321748430
464pp ©2012 Paper

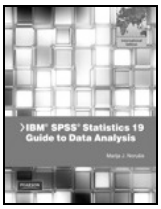
Basic Approach

IBM SPSS Statistics 19 Advanced Statistical Procedures Companion contains valuable tips, warnings, and examples that will help you take advantage of IBM SPSS Statistics to better analyze data. This book offers clear and concise explanations and examples of advanced statistical procedures in the IBM SPSS Statistics Advanced and Regression modules.

Table of Contents

1. Model Selection Loglinear Analysis
2. Logit Loglinear Analysis
3. Multinomial Logistic Regression
4. Ordinal Regression
5. Probit Regression
6. Kaplan-Meier Survival Analysis
7. Life Tables
8. Cox Regression
9. Variance Components
10. Linear Mixed Models

11. Generalized Linear Models
12. Generalized Estimating Equations
13. Generalized Linear Mixed Models
14. Nonlinear Regression
15. Two-Stage Least-Squares Regression
16. Weighted Least-Squares Regression
17. Multidimensional Scaling



IBM SPSS Statistics 19 Guide to Data Analysis, 1/e
Marija Norusis
Inc. SPSS

ISBN-10: 032180998X
ISBN-13: 9780321809988
672pp ©2012 Paper

Basic Approach
The **IBM SPSS Statistics 19 Guide to Data Analysis** is a friendly introduction to both data analysis and IBM SPSS Statistics 19, the world's leading desktop statistical software package. Easy-to-understand explanations and in-depth content make this guide both an excellent supplement to other statistics texts and a superb primary text for any introductory data analysis course. With this book, you'll learn how to describe data, test hypotheses, and examine relationships using IBM SPSS Statistics.

Author Marija Norušis incorporates a wealth of real data, including the General Social Survey and studies of Internet usage, opinions of the criminal justice system, marathon running times, library patronage, and the importance of manners, throughout the examples and expanded exercises. This unique combination of examples, exercises, and contemporary data gives you hands-on experience in analyzing data and makes learning about data analysis and statistical software relevant, unintimidating, and even fun!

A data CD-ROM is included with this book.

Table of Contents

PART 1. GETTING STARTED WITH IBM SPSS STATISTICS
1. Introduction
2. An Introductory Tour of IBM SPSS Statistics
3. Sources of Data

PART 2. DESCRIBING DATA
4. Counting Responses
5. Computing Descriptive Statistics
6. Comparing Groups
7. Looking at Distributions
8. Counting Responses for Combinations of Variables
9. Plotting Data

PART 3. TESTING HYPOTHESES
10. Evaluating Results from Samples
11. The Normal Distribution
12. Testing a Hypothesis about a Single Mean
13. Testing a Hypothesis about Two Related Means
14. Testing a Hypothesis about Two Independent Means
15. One-Way Analysis of Variance
16. Two-Way Analysis of Variance
17. Comparing Observed and Expected Counts
18. Nonparametric Tests

PART 4. EXAMINING RELATIONSHIPS
19. Measuring Association
20. Linear Regression and Correlation
21. Testing Regression Hypotheses
22. Analyzing Residuals
23. Building Multiple Regression Models
24. Multiple Regression Diagnostics

IBM SPSS Statistics 19 Statistical Procedures Companion, 1/e
Marija Norusis
Inc. SPSS

ISBN-10: 0321748425
ISBN-13: 9780321748423
672pp ©2012 Paper

Basic Approach

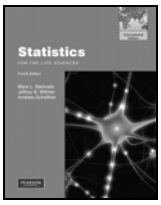
IBM SPSS Statistics 19 Statistical Procedures Companion contains tips, warnings, and examples that will help you take advantage of IBM SPSS Statistics 19 to better analyze data. This book contains a basic review of the underlying statistical concepts, with an emphasis on the practice of analyzing data. Ideal for both new and experienced users, this companion offers suggestions and strategies for handling the issues that arise when analyzing data.

IBM SPSS Statistics 19 Statistical Procedures Companion covers various statistical procedures in IBM SPSS Statistics. This book also contains introductory s on using the software, creating and cleaning data files, testing hypotheses, and describing data.

Table of Contents

PART 1
1. Introduction
2. Getting to Know IBM SPSS Statistics
3. Introducing Data
4. Preparing Your Data
5. Transforming Your Data
6. Describing Your Data
7. Testing Hypotheses
8. T Tests
9. One-Way Analysis of Variance
10. Crosstabulation
11. Correlation
12. Bivariate Linear Regression
13. Multiple Linear Regression
14 Automatic Linear Modeling
15. Discriminant Analysis
16. Logistic Regression Analysis
17. Cluster Analysis
18. Factor Analysis
19. Reliability Analysis
20. Nonparametric Tests
21. Ordinal Regression
22. General Loglinear Analysis

PART 2
23. GLM Univariate
24. GLM Multivariate
25. GLM Repeated Measures



Statistics for the Life Sciences, 4/e

Myra L. Samuels, *(Emerita)*
Jeffrey A. Witmer, *Oberlin College*
Andrew Schaffner, *California Polytechnic State University*

ISBN-10: 0321709675
ISBN-13: 9780321709677
672pp ©2012 Paper

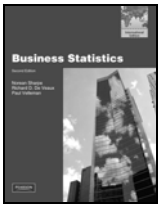
Basic Approach
Statistics for the Life Sciences, Fourth Edition, is the perfect book for introductory statistics classes, covering the key concepts of statistics as applied to the life sciences, while incorporating the tools and themes of modern data analysis. This text uses an abundance of real data in the exercises and examples to minimize computation, so that students can focus on the statistical concepts and issues, not the mathematics. Basic algebra is assumed as a prerequisite.

This latest edition is also available as an enhanced Pearson eText. This exciting new version features an embedded version of StatCrunch, allowing students to analyze data sets while reading the book.

For graduate or undergraduate courses in biology, agronomy, medical and health sciences, nutrition, pharmacy, animal science, physical education, forestry, and other life sciences.

Table of Contents

1. Introduction
2. Description of Samples and Populations
3. Probability, and the Binomial Distribution
4. The Normal Distribution
5. Sampling Distributions
6. Confidence Intervals
7. Comparison of Two Independent Samples
8. Comparison of Paired Samples
9: Categorical Data: One-Sample Distributions
10. Categorical Data: Relationships
11. Comparing the Means of Many Independent Samples
12. Linear Regression and Correlation



Business Statistics, 2/e

Norean D. Sharpe, *Georgetown University*
Richard D. De Veaux, *Williams College*
Paul Velleman, *Cornell University*

ISBN-10: 032176272X
ISBN-13: 9780321762726
1008pp ©2012 Paper

Basic Approach

Business Statistics, Second Edition, helps students gain the statistical tools and develop the understanding they'll need to make informed business decisions using data. The dynamic approach conquers the modern challenges of teaching business statistics by making it relevant, emphasizing analysis and understanding over simple computation, preparing students to be more analytical, make better business decisions, and effectively communicating results.

This text features a wealth of real data applications, with coverage of current issues, such as ethics and data mining. It draws students in using a conversational writing style and delivers content with a fresh, exciting approach that reflects the authors' blend of teaching, consulting, and entrepreneurial experiences. Learning tools such as the **Plan/Do/Report** guided examples prepare students to tackle any business problem they will encounter as a future business leader.

This book follows the GAISE Guidelines, emphasizing real data and real-world interpretations of analyses.

Table of Contents

PART I. EXPLORING AND COLLECTING DATA

1. Statistics and Variation
2. Data
3. Surveys and Sampling
4. Displaying and Describing Categorical Data
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6. Correlation and Linear Regression

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7. Randomness and Probability
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9. The Normal Distribution
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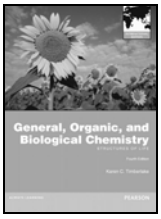
11. Confidence Intervals for Proportions
12. Confidence Intervals for Means
13. Testing Hypotheses
14. Comparing Two Groups
15. Inference for Counts: Chi-Square Tests

Part IV. MODELS FOR DECISION MAKING

16. Inference for Regression
17. Understanding Residuals
18. Multiple Regression
19. Building Multiple Regression Models
20. Time Series Analysis

PART V. SELECTED TOPICS IN DECISION MAKING

21. Design and Analysis of Experiments and Observational Studies
22. Quality Control
23. Nonparametric Methods
24. Decision Making and Risk
25. Introduction to Data Mining



Statistics: Informed Decisions Using Data, 4/e

Michael III Sullivan

ISBN-10: 0321818873
ISBN-13: 9780321818874
960pp ©2013 Paper

Basic Approach

Mike Sullivan regularly teaches introductory statistics, and this experience has helped him develop a understanding of what today's students need to succeed in the course. **Statistics: Informed Decisions Using Data, Fourth Edition**, provides tools that help students see the bigger picture and make informed decisions. In addition, Mike's contributions to the supplements and technology program make it easier to teach a multi-dimensional, engaging course.

Developed for this new edition, a Student Activity Workbook with accompanying instructor notes helps instructors integrate activities into their course. Also, the text offers new features that take advantage of statistical software, so students can focus on building conceptual understanding rather than memorizing formulas. A new example structure offers a bridge between by-hand solutions and the use of technology, and updated technology support appears in each . All the resources—including the author's Camtasia Studio® videos that respond to student questions and his national survey data in StatCrunch—were created for Mike's classroom and are available for use in yours, to help students succeed and stay engaged.

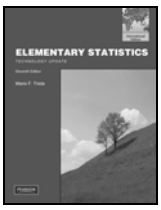
Table of Contents

Part I: Getting the Information You Need
1 Data Collection

Part II: Descriptive Statistics
2 Creating Tables and Drawing Pictures of Data
3 Numerically Summarizing Data
4 Describing the Relation Between Two Variables

Part III: Probability and Probability Distributions
5 Probability
6 Discrete Probability Distributions
7 The Normal Probability Distribution

Part IV: Inferences – From Samples to Population
8 Sampling Distributions
9 Estimating the Value of a Parameter Using Confidence Intervals
10 Hypothesis Tests Regarding a Parameter
11 Inference on Two Samples
12 Inference on Categorical Data
13 Comparing Three or More Means
14 Inference of the Least-Squares Regression Model and Multiple Regression
15 Nonparametric Statistics



Elementary Statistics Technology Update, 11/e

Mario F. Triola, *Dutchess Community College*

ISBN-10: 0321758307
ISBN-13: 9780321758309
888pp ©2012 Paper

Basic Approach

Mario Triola's **Elementary Statistics** remains the market-leading introductory statistics textbook because it engages students with an abundance of real data in the examples, applications, and exercises. Statistics is all around us in our daily lives, and Triola is dedicated to finding new real-world examples and data sets for you to use in your classroom.

The **Eleventh Edition** contains more than 2,000 exercises, 87% of which are new, and 82% of which use real data. It also contains hundreds of examples, 86% of which are new and 94% of which use real data. By analyzing real data, students are able to connect abstract concepts to the world at large. As a result, they gain conceptual understanding and learn to think statistically, using the same methods that professional statisticians employ.

The **Technology Update** includes new instruction that covers major advancements in statistics software since the first printing of the Eleventh Edition.

A new **Student Workbook** offers even greater opportunity for students to apply their knowledge and practice as they progress through the course. The workbook can be packaged with any Triola textbook.

Now instructors can encourage students to practice without needing to grade work by hand: **MyStatLab** is an online assessment and tutorial system available with this text. Visit our website for more information.

Data sets and other resources for this book are available at our website.

Table of Contents

1. Introduction to Statistics
2. Summarizing and Graphing Data
3. Statistics for Describing, Exploring, and Comparing Data
4. Probability
5. Discrete Probability Distributions
6. Normal Probability Distributions
7. Estimates and Sample Sizes
8. Hypothesis Testing
9. Inferences from Two Samples
10. Correlation and Regression
11. Goodness-of-Fit and Contingency Tables
12. Analysis of Variance
13. Nonparametric Statistics
14. Statistics Process Control
15. Projects, Procedures, Perspectives

Essentials of Probabilty & Statistics for Engineers & Scientists, 1/e

Ronald E. Walpole
Raymond Meyers
Sharon L. Myers
Keying Ye, *University of Texas at San Antonio*

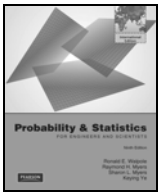
ISBN-10: 0321783735
ISBN-13: 9780321783738
480pp ©2013 Paper

Basic Approach
For junior/senior undergraduates taking a one-semester probability and statistics course as applied to engineering, science, or computer science.

This text covers the essential topics needed for a fundamental understanding of basic statistics and its applications in the fields of engineering and the sciences. Interesting, relevant applications use real data from actual studies, showing how the concepts and methods can be used to solve problems in the field. Students using this text should have the equivalent of the completion of one semester of differential and integral calculus.

Table of Contents

1. Introduction to Statistics and Probability
2. Random Variables, Distributions, and Expectations
3. Some Probability Distributions
4. Sampling Distributions and Data Descriptions
5. One- and Two-Sample Estimation Problems
6. One- and Two-Sample Tests of Hypotheses.
7. Linear Regression
8. One-Factor Experiments: General
9. Factorial Experiments (Two or More Factors)



Probability and Statistics for Engineers and Scientists, 9/e

Ronald E. Walpole
Raymond H. Myers, *Virginia Polytechnic Institute*
Sharon L. Myers
Keying E. Ye, *Virginia Polytechnic Institute & State University*

ISBN-10: 0321748239
ISBN-13: 9780321748232
816pp ©2012 Paper

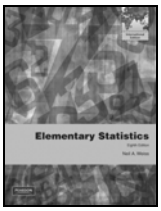
Basic Approach
For junior/senior undergraduates taking probability and statistics as applied to engineering, science, or computer science.

This classic text provides a rigorous introduction to basic probability theory and statistical inference, with a unique balance between theory and methodology. Interesting, relevant applications use real data from actual studies, showing how the concepts and methods can be used to solve problems in the field. This revision focuses on improved clarity and deeper understanding.

This latest edition is also available in as an enhanced Pearson eText. This exciting new version features an embedded version of StatCrunch, allowing students to analyze data sets while reading the book.

Table of Contents

1. Introduction to Statistics and Data Analysis
2. Probability
3. Random Variables and Probability Distributions
4. Mathematical Expectation
5. Some Discrete Probability Distributions
6. Some Continuous Probability Distributions
7. Functions of Random Variables (Optional)
8. Sampling Distributions and More Graphical Tools
9. One- and Two-Sample Estimation Problems
10. One- and Two-Sample Tests of Hypotheses
11. Simple Linear Regression and Correlation
12. Multiple Linear Regression and Certain Nonlinear Regression Models
13. One-Factor Experiments: General
14. Factorial Experiments (Two or More Factors)
15. 2^k Factorial Experiments and Fractions
16. Nonparametric Statistics
17. Statistical Quality Control



Elementary Statistics, 8/e

Neil A. Weiss, *Arizona State University*

ISBN-10: 0321709985
ISBN-13: 9780321709981
704pp ©2012 Paper

Basic Approach

Weiss's **Elementary Statistics, Eighth Edition** is the ideal textbook for introductory statistics classes that emphasize statistical reasoning and critical thinking. Comprehensive in its coverage, Weiss's meticulous style offers careful, detailed explanations to ease the learning process. With more than 2,000 exercises, most using real data, there is a wealth of opportunity for students to apply their knowledge and develop statistical literacy. The text is suitable for a one-semester course.

Elementary Statistics, Eighth Edition, contains parallel presentation of critical-value and *p*-value approaches to hypothesis testing. This unique design allows both the flexibility to concentrate on one approach or the opportunity for greater depth in comparing the two.

This edition of **Elementary Statistics** continues the book's tradition of being on the cutting edge of statistical pedagogy, technology, and data analysis. It includes hundreds of new and updated exercises with real data from journals, magazines, newspapers, and Web sites.

Elementary Statistics, Eighth Edition, takes a data-driven approach with more than 700 data sets documented by several hundred data sources.

Datasets and other resources (where applicable) for this book are available here.

Table of Contents

Part I: Introduction

1. The Nature of Statistics

Part II: Descriptive Statistics

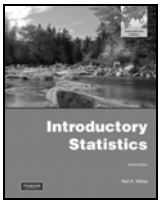
2. Organizing Data
3. Descriptive Measures
4. Descriptive Methods in Regression and Correlation

Part III: Probability, Random Variables, and Sampling Distributions

5. Probability and Random Variables
6. The Normal Distribution
7. The Sampling Distribution of the Sample Mean

Part IV: Inferential Statistics

8. Confidence Intervals for One Population Mean
9. Hypothesis Tests for One Population Mean
10. Inferences for Two Population Means
11. Inferences for Population Proportions
12. Chi-Square Procedures
13. Analysis of Variance (ANOVA)
14. Inferential Methods in Regression and Correlation



Introductory Statistics, 9/e

Neil A. Weiss, *Arizona State University*

ISBN-10: 0321740459
ISBN-13: 9780321740458
896pp ©2012 Paper

Basic Approach

Weiss's **Introductory Statistics, Ninth Edition** is the ideal textbook for introductory statistics classes that emphasize statistical reasoning and critical thinking. The text is suitable for a one- or two-semester course. Comprehensive in its coverage, Weiss's meticulous style offers careful, detailed explanations to ease the learning process. With more than 1,000 data sets and more than 2,600 exercises, most using real data, this text takes a data-driven approach that encourages students to apply their knowledge and develop statistical literacy.

Introductory Statistics, Ninth Edition, contains parallel presentation of critical-value and *p*-value approaches to hypothesis testing. This unique design allows both the flexibility to concentrate on one approach or the opportunity for greater depth in comparing the two.

This edition continues the book's tradition of being on the cutting edge of statistical pedagogy, technology, and data analysis. It includes hundreds of new and updated exercises with real data from journals, magazines, newspapers, and websites.

Datasets and other resources (where applicable) for this book are available here.

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1. The Nature of Statistics

Part II: Descriptive Statistics

2. Organizing Data
3. Descriptive Measures

Part III: Probability, Random Variables, and Sampling Distributions

4. Probability Concepts
5. Discrete Random Variables*
6. The Normal Distribution
7. The Sampling Distribution of the Sample Mean

Part IV: Inferential Statistics

8. Confidence Intervals for One Population Mean
9. Hypothesis Tests for One Population Mean
10. Inferences for Two Population Means
11. Inferences for Population Standard Deviations*
12. Inferences for Population Proportions
13. Chi-Square Procedures

Part V: Regression, Correlation, and ANOVA

14. Descriptive Methods in Regression and Correlation
15. Inferential Methods in Regression and Correlation
16. Analysis of Variance (ANOVA)

Part VI: Multiple Regression and Model Building; Experimental Design and ANOVA (On The WeissStats CD-ROM)

Module A. Multiple Regression Analysis
Module B. Model Building in Regression
Module C. Design of Experiments and Analysis of Variance

Sustainable Engineering: Concepts, Design and Case Studies

David T. Allen
David R. Shonnard, *Michigan Technological University*

ISBN10: 0132756544
ISBN13: 9780132756549
240pp ©2012 Paper

Basic Approach

Sustainable Engineering: Design and Analysis is the first textbook to offer a unified approach and comprehensive tools for evaluating the environmental, economic, and societal impacts of engineering designs. It builds on the authors' comprehensive benchmarking study of the incorporation of sustainability concepts in engineering curricula, and integrates well accepted principles and methods from their highly successful textbook, **Green Engineering**. David Allen and David Shonnard cover everything students and professionals need to improve sustainability in any engineering discipline. Readers will learn how to utilize green materials, design green processes and products, and assess the economic value and societal impacts of green designs. Using this book, engineering faculty can bring greater coherence to their instruction on sustainability issues, easily integrating sustainability topics into existing courses.

Note: This text condenses the new Second Edition of **Green Engineering: Environmentally Conscious Design of Chemical Processes**, also scheduled for publication in 2011.

Table of Contents

1. An Introduction to Sustainability
2. Risk and LifeCycle Frameworks for Sustainability
3. Environmental Law and Regulation
4. Green, Sustainable Materials
5. Design for Sustainability: Economic, Environmental, and Social Indicators
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7. References
8. Index

Green Engineering: Environmentally Conscious Design of Chemical Processes, 2/e

David T. Allen
David R. Shonnard, *Michigan Technological University*

ISBN10: 0132657074
ISBN13: 9780132657075
704pp ©2013 Cloth

Basic Approach

For upper level undergraduate and graduate level Chemical Engineering courses in Pollution Prevention and Chemical Process Design that are offered to Chemical Engineering or Environmental Engineering students, as well as Practicing Chemical or Civil Engineers interested in finding ways to prevent pollution. This book is the result of the USEPA (Environmental Protection Agency) green engineering curriculum development effort for chemical engineering departments. The book was developed to fulfill ABET/AICHE requirements on environment, health and safety. The book provides a comprehensive overview and introduction to environmentally preferable, or "green" approaches in the design and development of chemical processes and products for both engineering students and practitioners. *Green Engineering: Environmentally Conscious Design of Chemical Processes* is also the complete professional's guide to cost-effective design, commercialization, and use of chemical processes that minimize pollution at the source, thus reducing the impact on health and the environment.

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A CHEMICAL ENGINEER'S GUIDE TO ENVIRONMENTAL ISSUES AND REGULATIONS.
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EVALUATING AND IMPROVING ENVIRONMENTAL PERFORMANCE OF CHEMICAL PROCESSES.
5. Evaluating Environmental Fate: Approaches based on chemical structure.
6. Evaluating Exposures.
7. Green Chemistry.
8. Evaluating Environmental Performance During Process Synthesis.
9. Unit Operations and Pollution Prevention.
10. Flow-sheet Analysis for Pollution Prevention.
11. Evaluating the Environmental Performance of a Flow-sheet.
12. Environmental Cost Accounting.

MOVING BEYOND THE PLANT BOUNDARY.
13. Life-Cycle Concepts, Product Stewardship, and Green Engineering.
14. Industrial Ecology.
APPENDICES.
Details Of The Nine Prominent Federal Environmental Statutes.
Molecular Connectivity.
Estimating Emissions From Storage Tanks.
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Procedures for Estimating Hidden (Tier II) Costs—Tables E-1 to E-5.
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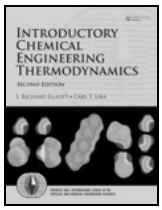

Introductory Chemical Engineering Thermodynamics, 2/e

J. Richard Elliott, *University of Akron*
Carl T. Lira, *Michigan State University*

ISBN10: 0136068545
ISBN13:9780136068549
912pp ©2012 Cloth

Basic Approach
A deep understanding of thermodynamics is essential to success in a wide range of chemical and biochemical engineering applications. In this book, two leading experts and longtime instructors thoroughly explain the subject, taking the molecular perspective that working engineers require (and competitive books often avoid). This new Second Edition contains extensive new coverage of today's fast growing biochemical engineering applications, notably biomass conversion to fuels and chemicals. It also presents many new MATLAB examples and tools to complement its previous usage of Excel and other software. New and updated coverage includes: " Integrated discussions of biological thermodynamics throughout " Clear learning objectives and outcomes for each chapter, provided as a web supplement " More examples focusing on the First and Second Laws of thermodynamics and fluid phase equilibria in mixtures " A new overview of mixture modeling concepts " Reorganized, enhanced coverage of van der Waals and local composition models " A brand new chapter on molecular simulations " Expanded coverage of stability theory " Updated online supplements and new online teaching tools, including Concept Testing

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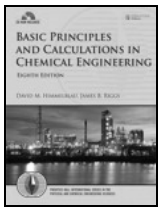

Basic Principles and Calculations in Chemical Engineering, 8/e

David M. Himmelblau, *University of Texas, Austin*
James B. Riggs

ISBN10: 0132346605
ISBN13: 9780132346603
752pp ©2012 Cloth Bound w/CDROM

Basic Approach

Basic Principles and Calculations in Chemical Engineering, 8/e, provides a complete, practical, and student friendly introduction to the principles and techniques of modern chemical, petroleum, and environmental engineering. The authors introduce efficient and consistent methods for solving problems, analyzing data, and conceptually understanding a wide variety of processes. This edition has been revised to reflect growing interest in the life sciences, adding biotechnology and bioengineering problems and examples throughout. It also adds many new examples and homework assignments on nanotechnology, environmental, and green engineering, plus many updates to existing examples. A new chapter presents multiple student projects, and several chapters from the previous edition have been condensed for greater focus.

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Chemical Engineering Thermodynamics

Themis Matsoukas

ISBN10:0132693062
ISBN13:9780132693066
704pp ©2013 Cloth

Basic Approach

For undergraduate courses in Applied Thermodynamics.

Written in a style and at a level that is accessible to *undergraduates,* this introduction to applied thermodynamics covers the first and second law for process applications, molecular concepts, equations of state, activity models, and reaction equilibria—all in a tightly integrated, pedagogical progression of topics. It addresses the on-going evolution in applied thermodynamics and computer technology, and integrates several widely-accessible computational tools to allow exploration of model behavior— e.g., programs for HP and TI calculators, Microsoft Excel spreadsheets, and PC's. Includes background and comparison on many of the popular thermodynamic models

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Appendix E. Models for Process Simulators.
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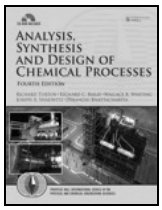

Analysis, Synthesis and Design of Chemical Processes, 4/e

Richard Turton
Richard C. Bailie
Wallace Whiting
Joseph A. Shaeiwitz
Debangsu Bhattacharyya

ISBN10: 0132618125
ISBN13: 9780132618120
1104pp ©2012 Cloth Bound w/CDROM

Basic Approach

More than ever, effective design is the focal point of sound chemical engineering. ***Analysis, Synthesis, and Design of Chemical Processes, Fourth Edition,*** presents design as a creative process that integrates both the big picture and the small details—and knows which to stress when, and why. Realistic from start to finish, this book moves readers beyond classroom exercises into open-ended, real-world process problem solving. The authors introduce integrated techniques for every facet of the discipline, from finance to operations, new plant design to existing process optimization.

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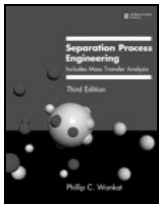

Separation Process Engineering: Includes Mass Transfer Analysis, 3/e
Phillip C. Wankat

ISBN10: 0131382276
ISBN13: 9780131382275
992pp ©2012 Cloth

Basic Approach
Separation Process Engineering, Third Edition, is the most comprehensive, accessible text available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data–including up to date simulation practice and new spread sheet based exercises.

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3. Introduction to Column Distillation
4. Column Distillation: Internal Stage-by-Stage Balances
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10. Staged and Packed Column Design
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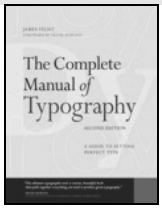
Design



The Complete Manual of Typography: A Guide to Setting Perfect Type, 2/e
Jim Felici

ISBN10: 0321773268
ISBN13: 9780321773265
416pp ©2012 Paper

Basic Approach
Beautifully designed and richly illustrated The Complete Manual of Typography, Second Edition, is the fully updated version of THE seminal book on typography by Jim Felici. This book is about how type should look and how to make it look that way – in other words, how to set type like a professional. It explains in practical terms how to use today's digital tools to achieve the secret of good design: well set type. An essential reference for anyone who works with type: designers, print production professionals, and corporate communications managers can go to straight to the index to find focused answers to specific questions, while educators and students can read it as a text book from cover to cover.

Engineering

The Economics of Software Quality
Olivier Bonsignour

ISBN10: 0132582201
ISBN13: 9780132582209
624pp© 2012 Cloth

Basic Approach
Poor quality continues to bedevil large-scale development projects, but few software leaders and practitioners know how to measure quality, select quality best practices, or cost-justify their usage. In ***The Economics of Software Quality,*** leading software quality experts Capers Jones and Olivier Bonsignour show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value.

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1. Defining Software Quality and Economic Value
2. Estimating and Measuring Software Quality
3. Software Defect Prevention
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5. Software Testing
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Fundamentals of Statistical Signal Processing, Volume 3: Practical Algorithm Development

Steven M. Kay, *University of Rhode Island*

ISBN10: 013280803X
ISBN13: 9780132808033
640pp ©2013 Cloth Bound w/CDROM

Basic Approach
This is a thorough, up-to-date introduction to optimizing signal algorithms for implementation on digital computers. It focuses extensively on real-world signal processing applications, including state-of-the-art speech and communications technology as well as traditional sonar/radar systems.

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1. Introduction.
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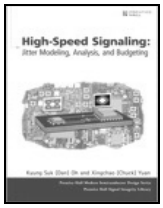
5. Random Signals.
6. Statistical Decision Theory II
7. Deterministic Signals with Unknown Parameters.
8. Random Signals with Unknown Parameters.
9. Unknown Noise Parameters.
10. Non-Gaussian Noise.
11. Summary of Detectors.
12. Model Change Detection.
13. Complex/Vector Extensions, and Array Processing.



High-Speed Signaling: Jitter Modeling, Analysis, and Budgeting

Kyung Suk (Dan) Oh
Xing Chao (Chuck) Yuan

ISBN10: 0132826917
ISBN13: 9780132826914
528pp ©2012 Cloth

Basic Approach
As data communication rates accelerate well into the multi-gigahertz range, ensuring signal integrity both on and off chip has become crucial, and high-speed signal integrity engineering has grown into one of today's most important engineering disciplines. This book brings together cutting-edge contributions from the field's most respected practitioners and researchers, including leaders at Rambus, MIT, and the University of California, Berkeley. Edited by pioneering experts Dan Oh and Chuck Yuan, these contributors illuminate the newest design challenges in signal integrity and power integrity (SI/PI). They summarize emerging issues and new modeling/analysis methodologies used by leading companies such as Rambus, Intel, and IBM; and thoroughly cover high-speed signaling analysis, including signal and power integrity with on-chip device jitter.

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Part II Analyzing Link Performance

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8. Link BER Modeling and Simulation
9. Fast Time Domain Channel Simulation Techniques
10. Clock Models in Link BER Analysis
Part III Supply Noise and Jitter
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12. SSN Modeling and Simulation
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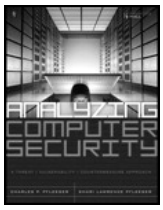

Analyzing Computer Security: A Threat / Vulnerability / Countermeasure Approach

Charles P. Pfleeger
Shari Lawrence Pfleeger

ISBN10: 0132789469
ISBN13: 9780132789462
848pp ©2012 Cloth

Basic Approach
In this book, the authors of the 20year bestselling classic **Security in Computing** take a fresh, contemporary, and powerfully relevant new approach to introducing computer security. Organized around attacks and mitigations, the Pfleegers' new **Analyzing Computer Security** will attract readers' attention by building on the high-profile security failures they may have already encountered in the popular media. Each section starts with an attack description. Next, the authors explain the vulnerabilities that have allowed this attack to occur. With this foundation in place, they systematically present today's most effective countermeasures for blocking or weakening the attack. One step at a time, readers progress from attack/problem/harm to solution/protection/mitigation, building the powerful real-world problem solving skills they need to succeed as information security professionals. **Analyzing Computer Security** addresses crucial contemporary computer security themes throughout, including effective security management and risk analysis; economics and quantitative study; privacy, ethics, and laws; and the use of overlapping controls. The authors also present significant new material on computer forensics, insiders, human factors, and trust.

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12. Disregard That Man Behind the Curtain
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16. 'Twas Brillig, and the Slithy Toves . . .
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RF Microelectronics, 2 / e

Behzad Razavi, *UCLA, Los Angeles, California*

ISBN10: 0137134738
ISBN13:9780137134731
960pp © 2012 Cloth

Basic Approach
RF Microelectronics, Second Edition teaches RF analysis and design systematically, one step at a time, taking

readers all the way from specification through practical solution. Behzad Razavi has thoroughly revised his classic text to incorporate the latest developments in RF architecture, circuits, and devices, and to cover all key topics in greater detail. This edition's stronger tutorial focus will make it even more valuable to students, and its more systematic coverage of the latest technologies will make it indispensable to practicing engineers.

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1. Introduction to RF and Wireless Technology
2. Basic Concepts in RF Design
3. Communication Concepts
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Fundamentals of Agile Development: Succeeding in the Real World

Venkat Subramaniam

ISBN10: 0132317265
ISBN13:9780132317269
320pp ©2012 Paper

Basic Approach

Agile methodologies define specific roles for each project stakeholder. Learning how to play these roles and navigate agile's stakeholders can prove bewildering to new practitioners, impeding their success with agile. This book guides agile practitioners in understanding their roles and immediately applying pragmatic agile practices that are proven to work. Designed for team members working with any agile methodology, it shows how to apply the specific agile best practices most closely associated with success in each role, and become far more effective advocates for agile throughout their organizations.

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9. Scaling Agile

Part III: Attaining Sustainability

10. Sustainability
11. Evolutionary Design and Architecture
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13. Mock Objects
14. Refactoring
15. Automated Functional Testing
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17. Case Studies
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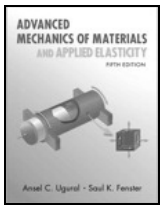

Advanced Mechanics of Materials and Applied Elasticity, 5/e

Ansel C. Ugural
Saul K. Fenster

ISBN10: 0137079206
ISBN13: 9780137079209
704pp ©2012 Cloth

Basic Approach

Long the leading text for students and practitioners in advanced materials mechanics, this new edition has been thoroughly revised to reflect the newest techniques, supporting more advanced study and professional design and analysis for the coming decade. More complete and current than ever, this edition systematically explores real world stress analysis, and introduces state of the art methods and applications used throughout aeronautical, civil, and mechanical engineering and engineering mechanics. Distinguished by exceptional visual interpretations of the solutions, it carefully balances thorough treatments of solid mechanics, elasticity, and computer oriented numerical methods.

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Bioprocess Engineering: Basic Concepts, 3/e

Adam Warner

ISBN10: 0137062702
ISBN13: 9780137062706
640pp © 2013 Cloth

Basic Approach

For Senior-level and graduate courses in Biochemical Engineering, and for programs in Agricultural and Biological Engineering or Bioengineering.

This concise yet comprehensive text introduces the essential concepts of bioprocessing—*internal structure and functions of different types of microorganisms, major metabolic pathways, enzymes, microbial genetics, kinetics and stoichiometry of growth and product information*—to traditional chemical engineers and those in related disciplines. It explores the engineering principles necessary for bioprocess synthesis and design, and illustrates the application of these principles to modern biotechnology for production of pharmaceuticals and biologics, solution of environmental problems, production of commodities, and medical applications.

Table of Contents

1. INTRODUCTION.
1. What is a Bioprocess Engineer?
2. THE BASICS OF BIOLOGY: AN ENGINEER'S PERSPECTIVE.
2. An Overview of Biological Basics.
3. Enzymes.
4. How Cells Work.
5. Major Metabolic Pathways.
6. How Cells Grow.
7. Stoichiometry of Microbial Growth and Product Formation.
8. How Cellular Information is Altered.
3. ENGINEERING PRINCIPLES FOR BIOPROCESSES.
9. Operating Considerations for Bioreactors for Suspension and Immobilized Cultures.
10. Selection, Scale-Up, Operation, and Control of Bioreactors.
11. Recovery and Purification of Products.
4. APPLICATIONS TO NONCONVENTIONAL BIOLOGICAL SYSTEMS.
12. Bioprocess Considerations in Using Animal Cell Cultures.
13. Bioprocess Considerations in Using Plant Cell Cultures.
14. Utilizing Genetically Engineered Organisms.
15. Medical Applications of Bioprocess Engineering.
16. Mixed Cultures.
17. Epilogue.
18. Appendix: Traditional Industrial Bioprocesses.
19. Index

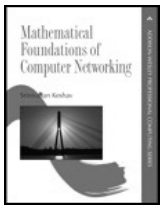
Understanding DB2 9 Security (paperback),

Rebecca Bond
Kevin YeungKuen See
Carmen Ka Man Wong
YukKuen Henry Chan

ISBN10: 0133007057
ISBN13:9780133007053
432pp © 2012 Paper

Basic Approach
Understanding DB2 9 Security is the only comprehensive guide to securing DB2 and leveraging the powerful new security features of DB2 9. Direct from a DB2 Security deployment expert and the IBM® DB2 development team, this book gives DBAs and their managers a wealth of security information that is available nowhere else. It presents real-world implementation scenarios, step-by-step examples, and expert guidance on both the technical and human sides of DB2 security.

This book's material is organized to support you through every step of securing DB2 in Windows®, Linux®, or UNIX® environments. You'll start by exploring the regulatory and business issues driving your security efforts, and then master the technological and managerial knowledge crucial to effective implementation. Next, the authors offer practical guidance on post-implementation auditing, and show how to systematically maintain security on an ongoing basis.



Mathematical Foundations of Computer Networking,

Srinivasan Keshav

ISBN10: 0321792106
ISBN13: 9780321792105
432pp ©2012 Paper

Basic Approach
Students, researchers, and practitioners in computer networking require a firm conceptual understanding of the field's mathematical underpinnings. ***Mathematical Foundations of Computer Networking*** provides an intuitive yet rigorous introduction to these essential mathematical principles and techniques. Assuming only a basic grasp of calculus, this book offers sufficient detail to serve as the only reference many readers will need. The text first presents basic concepts and then introduces four theories, presenting material in a progression that has been carefully designed to gradually deepen readers' understanding. Within each part, chapters are designed to be as self-contained as possible.

Table of Contents

1. Probability
2. Statistics
3. Linear Algebra
4. Optimization
5. Signals, Systems, and Transforms
6. Stochastic Processes and Queue-ing Theory
7. Game Theory
8. Elements of Control Theory
9. Information Theory

Appendix: Solutions to Exercises
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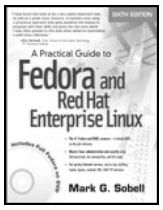

Practical Guide to Fedora and Red Hat Enterprise Linux, A, 6/e

Mark G. Sobell

ISBN10: 0132757273
ISBN13: 9780132757270
1224pp ©2012 Paperback with DVD

Basic Approach
Mark Sobell's books have earned a reputation as the most thorough and up to date guides to installing, configuring, and working with Linux. They've become legendary for their versatility as both tutorials and references, making them ideal for both entry-level and more advanced students. As always, Sobell teaches both

the "hows" and the "whys" and readers will find answers and solutions faster than ever, thanks to this edition's completely revamped index system.

Now fully updated for both Fedora Core 15 and Red Hat Enterprise Linux 6, Sobell's new edition of **A Practical Guide to Fedora and Red Hat Enterprise Linux** walks readers through every essential feature and technique they'll need now and for years to come

Table of Contents

1. Welcome to Linux

Part I: Installing Fedora/RHEL Linux

2. Installation Overview
3. Step-by-Step Installation

Part II: Getting Started with Fedora/RHEL

4. Introduction to Fedora and Red Hat Enterprise Linux
5. The Linux Utilities
6. The Linux File system
7. The Shell

Part III: Digging into Fedora/RHEL

8. Linux GUIs: X and GNOME
9. The Bourne Again Shell
10. 1Networking and the Internet

Part IV: System Administration

11. System Administration: Core Concepts
12. Files, Directories, and File systems
13. Finding, Downloading, and Installing Software
14. Printing with CUPS
15. Building a Linux Kernel
16. Administration Tasks
17. Configuring and Monitoring a LAN

Part V: Using Clients and Setting Up Servers

18. Open-SSH: Secure Network Communication
19. FTP: Transferring Files Across a Network
20. sendmail: Setting Up Mail Servers, Clients, and More
21. NIS and LDAP
22. NFS: Sharing Directory Hierarchies
23. Samba: Linux and Windows File and Printer Sharing
24. DNS/BIND: Tracking Domain Names and Addresses
25. systemconfigfirewall and iptables: Setting Up a Firewall
26. Apache (httpd): Setting Up a Web Server

Part VI: Programming Tools

27. Programming the Bourne Again Shell
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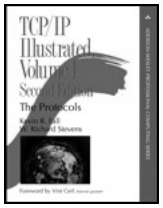

TCP/IP Illustrated, Volume 1: The Protocols, 2/e

Kevin R. Fall
W. Richard Stevens

ISBN10: 0321336313
ISBN13: 9780321336316
1056pp © 2012 Cloth

Basic Approach

More than 162,000 networking professionals have relied on W. Richard Stevens' classic **TCP/IP Illustrated, Volume 1** to gain the detailed understanding of TCP/IP they need to be effective. Now, the world's leading TCP/IP bestseller has been thoroughly updated to reflect a new generation of TCP/IP-based networking technologies. **TCP/IP Illustrated, Volume 1, Second Edition** doesn't just describe protocols: it enables readers to observe how these protocols operate under different conditions, using publicly available tools, and explains why key design decisions were made. The result: readers gain a deep understanding of how TCP/IP protocols function, and why they function that way. Now thoroughly updated by longtime networking expert Kevin Fall, this brand-new second edition's extensive new coverage includes: " Remote procedure call " Identity management (access control / authentication) " Network and transport layer security (authentication / privacy) " File access protocols, including NFS and SMB/CIFS " Host initialization and DHCP " NAT and firewalls " Email " Web and web services " Wireless and wireless security " New tools, including Ethereal, n-map and net-cat

Table of Contents

1. Introduction
2. The Internet Address Architecture
3. Link Layer
4. ARP: Address Resolution Protocol
5. The Internet Protocol (IP)
6. System Configuration: DHCP and Autoconfiguration
7. Firewalls and Network Address Translation (NAT)

8. ICMPv4 and ICMPv6: Internet Control Message Protocol
9. Broadcasting and Local Multicasting (IGMP and MLD)
10. User Datagram Protocol (UDP) and IP Fragmentation
11. Name Resolution and the Domain Name System (DNS)
12. TCP: The Transmission Control Protocol (Preliminaries)
13. TCP Connection Management
14. TCP Timeout and Retransmission
15. TCP Data Flow and Window Management
16. TCP Congestion Control
17. TCP Keepalive
18. Security: EAP, IPsec, TLS, DNSSEC, and DKIM
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Integrating and Extending BIRT, 3/e

Jason Weathersby
Tom Bondur
Iana Chatalbasheva

ISBN10: 0321772822
ISBN13: 9780321772824
880pp ©2012 Paper

Basic Approach

The world-wide developer community has downloaded over ten million copies of BIRT (Business Intelligence and Reporting Tools). Built on the open-source Eclipse platform, BIRT is a powerful reporting system that provides an end-to-end solution from creating and deploying reports to integrating report capabilities in enterprise applications. ***Integrating and Extending BIRT, Third Edition,*** introduces programmers to BIRT architecture and the reporting framework. BIRT technology makes it possible for programmers to build customized reports using scripting and BIRT APIs. This book also includes extensive examples of how to use the Eclipse Plug-in Development Environment to build plug-ins to extend the features of the BIRT framework. The source code for these examples is available for download at www.eclipse.org/birt.

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Part 1: Installing and Deploying BIRT
1. Introducing BIRT Report Designers
2. Installing a BIRT Report Designer
3. Installing Other BIRT Packages
4. Deploying a BIRT Report to an Application Server
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6. Understanding the Report Object Model
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7. Using Scripting in a Report Design
8. Using JavaScript to Write an Event Handler
9. Using Java to Write an Event Handler
10. Working with Chart Event Handlers
11. Using Scripting to Access Data
12. Debugging Event Handlers
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19. Developing a Report Rendering Extension
20. Developing an ODA Extension
21. Developing a Data Extraction Extension
22. Developing a Fragment
23. Developing a Charting Extension
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The Java Programming Language, 5/e

Ken Arnold
James Gosling
David Holmes

ISBN10: 0132761688
ISBN13:9780132761680
992pp ©2012 Paper

Basic Approach

Targeted at intermediate-to-advanced developers, this is the definitive tutorial introduction and reference to the Java SE7 language and its essential libraries. Co-authored by "father of Java" James Gosling and two respected leaders of the global Java community, this book brings together exclusive insights and best practices for doing more with Java, and writing more robust, efficient, and maintainable software. Now, every chapter has been updated to reflect best practices for Java SE7 coding, and several entirely new sections have been added. The Java Programming Language, Fifth Edition systematically covers most classes in Java's main packages, java.lang.*, java.util, and java.io, presenting in-depth explanations of why these classes work as they do, along with exceptionally instructive examples. The authors help experienced programmers gain unprecedented mastery over features and techniques ranging from "anonymous inner classes" and reflection to I/O, threading, and collections. The authors present exceptionally clear and practical explanations drawn from their immense experience pioneering the Java platform, and illustrate many of these examples using simple mathematical problems.

Table of Contents

1. A Quick Tour
2. Classes and Objects
3. Extending Classes
4. Interfaces
5. Nested Classes and Interfaces
6. Enumeration Types
7. Tokens, Values, and Variables
8. Primitives as Types
9. Operators and Expressions
10. Control Flow
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12. Exceptions and Assertions
13. Strings and Regular Expressions
14. Threads
15. Annotations
16. Reflection
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21. Collections
22. Miscellaneous Utilities
23. System Programming
24. Internationalization and Localization
25. Standard Packages

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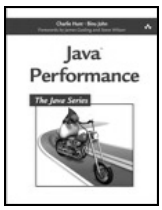

Java Performance

Charlie Hunt
Binu John

ISBN10: 0137142528
ISBN13: 9780137142521
720pp ©2012 Paper

Basic Approach

Improvements in the Java platform and new multi-core/multiprocessor hardware have made it possible to dramatically improve the performance and scalability of Java software. Now, two leading Java performance experts have written the first start-to-finish guide to optimizing Java performance in today's systems. They offer uniquely detailed, comprehensive, and up-to-date coverage of all aspects of Java performance improvement, from monitoring and profiling to upgrading older code.

Table of Contents

1. Strategies, Approaches, and Methodologies
2. Operating System Performance Monitoring

3. JVM Overview
4. JVM Performance Monitoring
5. Java Application Profiling
6. Java Application Profiling Tips and Tricks
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8. Benchmarking Java Applications
9. Benchmarking Multi-tiered Applications
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Core Java™, Volume II Advanced Topics, 9/e

Cay S. Horstmann
Gary Cornell, *University of Connecticut*

ISBN10: 013708160X
ISBN13: 9780137081608
1088© 2013 Paper

Basic Approach
The revised edition of the classic ***Core Java™, Volume II–Advanced Features,*** covers advanced user-interface programming and the enterprise features of the Java SE 6 platform. Like Volume I (which covers the core language and library features), this volume has been updated for Java SE 6 and new coverage is highlighted throughout. All sample programs have been carefully crafted to illustrate the latest programming techniques, displaying best-practices solutions to the types of real-world problems professional developers encounter.

Table of Contents
1. Streams and Files
2. XML
3. Networking
4. Database Programming
5. Internationalization
6. Advanced Swing
7. Advanced AWT
8. Javabeans Components
9. Security
10. Distributed Objects
11. Scripting, Compiling, and Annotation Processing
12. Native Methods

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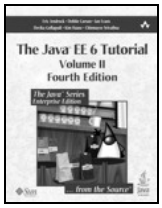


The Java EE 6 Tutorial: Advanced Topics, 4/e

Eric Jendrock
Ian Evans
Devika Gollapudi
Kim Haase
Chinmayee Srivathsa

ISBN10: 0137081863
ISBN13: 9780137081868
768pp ©2012 Paper

Basic Approach
Sun's definitive, example-rich tutorial/references for Java-TM enterprise development have now been completely updated to reflect Java EE 6's most powerful new innovations and best-practice programming techniques. In this, the second of two volumes, Sun experts bring together dozens of advanced solutions designed to make the most of Java EE 6's improved technologies, APIs, and programming model.

Table of Contents
Part I. Introduction
Part II. Advanced Web Tier Topics
1. Advanced Servlet 3.0 Examples
2. Advanced Java-Server Faces 2.0 Examples
3. Advanced Facelets Examples
4. Advanced Java-Server Pages Examples
5. Advanced JSTL Examples

Part III. Advanced Web Services
6. Advanced JAXWS Examples
7. Advanced JAXRS Examples (Debbie)

Part IV. Advanced Enterprise Bean Topics
8. Understanding the Enterprise Bean Deployment Descriptor
9. Embedding the EJB Container
10. Using EJB Interceptors
11. Using Bean-Managed Transactions
12. Using Bean-Managed Concurrency
13. Using Enterprise Beans as Web Service Endpoints

Part V: Advanced Contexts and Dependency Injection Topics
14. Java EE Platform: Advanced Topics
15. Running the Advanced Contexts and Dependency Injection Example

Part VI: Advanced Java Persistence API Topics
16. Derived Identities new section on using derived entities.
17. Setting the Lock Mode for Entities
18. Setting the Cache Mode for Persistence Units
19. Bean Validation and the Java Persistence API

Part VII: Advanced Security Topics
20. Advanced Security Topics
21. Securing Enterprise Applications Using Deployment Descriptors
22. Using Deployment Descriptors with Web Applications
23. Top to Bottom Security

Part VIII: Advanced Java EE Supporting Technologies
24. Connector Architecture
25. Java Message Service Concepts
26. Java Message Service Examples

Part IX: Case Studies
27. Duke's Bank

Efficient Java: A Practical Guide to Memory-Conscious Programming,

Nick Mitchell
Edith Schonberg
Gary Sevitsky

ISBN10: 0321712099
ISBN13: 9780321712097
320pp ©2013 Paper

Basic Approach

In the mold of Effective Java: powerful new insights for creating more memory-efficient, scalable Java software

- Highlights critical Java design choices that dramatically impact memory efficiency, helping developers make far better tradeoffs
- Shows how to identify scaling problems early, when they can be fixed faster, at lower cost
- Shows how to streamline bloated Java heaps that waste up to 80% of memory
- By IBM developers who've spent a decade improving Java software efficiency

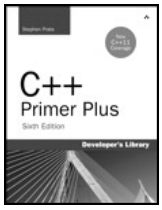
Table of Contents

SECTION 1: MEMORY COSTS IN JAVA
1. Introduction
2. Why Memory Costs Are Important
3. Memory Health

SECTION 2: MODELING DATA TYPES
4. The Cost of Objects and Delegation
5. Reducing Object Bloat
6. Sharing Immutable Data

SECTION 3: MODELING RELATIONSHIPS
7. Cost of Java Collections
8. Reducing Collection Bloat
9. Specialized Collections

SECTION 4: MANAGING LIFETIME
10. Short-Lived Objects
11. Long-Lived Objects
12. Long-Lived Objects: Extreme Solutions



C++ Primer Plus, 6/e

Stephen Prata

ISBN10: 0321776402
ISBN13: 9780321776402
1200pp ©2012 Paper

Basic Approach
C++ Primer Plus is an approachable yet technically rigorous guide to C++ for programmers new to the language. This new edition updates it with the most important features added to the C++11 standard, while keeping the style and approach which have made the previous editions so popular. It contains extensive new code samples and exercises, for both classroom use and self study.

Table of Contents

1. Getting Started with C++
2. Setting Out to C++
3. Dealing with Data
4. Compound Types
5. Loops and Relational Expressions
6. Branching Statements and Logical Operators
7. Functions: C++'s Programming Modules
8. Adventures in Functions
9. Memory Models and Namespaces
10. Objects and Classes
11. Working with Classes
12. Classes and Dynamic Memory Allocation
13. Class Inheritance
14. Reusing Code in C++
15. Friends, Exceptions, and More
16. The string Class and the Standard Template Library
17. Input, Output, and Files
18. Visiting with the New C++ Standard

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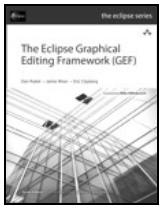

The Eclipse Graphical Editing Framework (GEF)

Dan Rubel
Jaime Wren
Eric Clayberg

ISBN10: 0321718380
ISBN13: 9780321718389
312pp ©2012Paper

Basic Approach
The Eclipse Graphical Editing Framework (GEF) covers everything Java tool developers need to create tomorrow's richest, most visual interfaces. ***The Eclipse Graphical Editing Framework (GEF)*** is the best resource for all Java tool developers who want to construct sophisticated graphical editing products that integrate with Eclipse, for experienced Eclipse users who want to start creating their own graphical tools, and for anyone who wants to see what makes GEF tick. This book is organized to help developers solve immediate problems quickly, while also gaining in-depth knowledge for building advanced solutions. Relevant APIs are included in several chapters, making this an even more useful standalone reference.

Table of Contents

1. What Is GEF?
2. A Simple Draw2D Example
3. Draw2D Infrastructure
4. Figures
5. Layout Managers
6. Connections
7. Layers and Viewports
8. GEF Models
9. Zest
10. GEF Plugin Overview
11. GEF View
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13. Commands and Tools

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C++ GUI Programming with Qt 4, 3/e

Mark Summerfield

ISBN10: 013268909X
ISBN13: 9780132689090
832pp ©2013 Cloth

Basic Approach
The Only Official, Best-Practice Guide to Qt 4.3 Programming Using Troll-tech's Qt you can build industrial-strength C++ applications that run natively on Windows, Linux/Unix, Mac OS X, and embedded Linux without source code changes. Now, two Troll-tech insiders have written a start-to-finish guide to getting outstanding results with the

latest version of Qt: Qt 4.3. Packed with realistic examples and in-depth advice, this is the book Troll-tech uses to teach Qt to its own new hires. Whether you're new to Qt or upgrading from an older version, this book can help you accomplish everything that Qt 4.3 makes possible.

Table of Contents

Part I: Basic Qt
1. Getting Started
2. Creating Dialogs
3. Creating Main Windows
4. Implementing Application Functionality
5. Creating Custom Widgets
6. Layout Management
7. Event Processing
8. 2D Graphics
9. Drag and Drop
10. Item View Classes
11. Container Classes
12. Input/Output
13. Databases
14. Multithreading
15. Networking
16. XML
17. Providing Online Help

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19. Look and Feel Customization
20. 3D Graphics
21. Creating Plugins
22. Application Scripting
23. Platform-Specific Features
24. Embedded Programming

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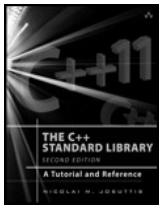

C++ Standard Library, The: A Tutorial and Reference, 2/e

Nicolai M. Josuttis

ISBN10: 0321623215
ISBN13: 9780321623218
1200pp ©2012 Cloth

Basic Approach

Fully updated to reflect the newest elements of the C++ Standard Library incorporated into the full ANSI/ISO C++ language standard, this book examines containers, iterators, function objects, STL algorithms, special containers, strings, numerical classes, internationalization, the IOStream library, and much more. Every component is presented in depth: Josuttis explains its purpose and design, presents crystal-clear examples, identifies traps and pitfalls, and offers exact signatures and definitions of its classes and functions. Comprehensive, detailed, readable, and practical, Josuttis' The C++ Standard Library has established itself as the definitive book on the topic: working developers will find this new edition even more useful.

Table of Contents

1. About this Book
2. Introduction to C++ and the Standard Library
3. New Language Features
4. General Concepts
5. Utilities
6. The Standard Template Library
7. STL Containers
8. STL Containers Members in Details
9. STL Iterators
10. STL Function Objects and Using Lambdas
11. STL Algorithms
12. Special Containers
13. Strings
14. Regular Expressions
15. Input/Output Using Stream Classes
16. Internationalization
17. Numerics
18. Concurrency
19. Allocators

Bibliography

C++ Primer, 5/e

Stanley B. Lippman
Josée Lajoie
Barbara E. Moo

ISBN10:0321714113
ISBN13:9780321714114
912pp ©2013 Paper

Basic Approach

C++ Primer, Fifth Edition has been completely revised and rewritten to conform to today's C++ usage. Students new to C++ will find a clear and practically organized introduction to the language enhanced by numerous pedagogical aids. Each chapter also contains a Summary section outlining the important topics covered in that chapter. Extensive forward and backward cross-references are provided to make it easier to follow the interrelationships among various features and concepts.

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Part I. Getting Started
1. Variables and Basic Types
2. Library Types
3. Arrays and Pointers
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5. Statements
6. Functions
7. The IO Library

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Part III. Classes and Data Abstraction
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12. Copy Control
13. Overloaded Operations and Conversions

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14. Object-Oriented Programming
15. Templates and Generic Programming

Part V. Advanced Topics
16. Tools for Large Programs
17. Specialized Tools and Techniques

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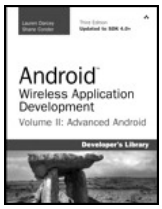
Mobile Programming



Android Wireless Application Development Volume II: Advanced Topics, 3/e

Shane Conder
Lauren Darcey

ISBN10: 0321813847
ISBN13: 9780321813848
700pp ©2012 Paper

Basic Approach

Since Android's first releases, **Android Wireless Application Development** has earned a reputation as the most useful real-world guide for everyone who wants to build robust, commercial-grade Android apps. Now, authors Lauren Darcey and Shane Conder have systematically revised and updated this guide for the newest versions of Android. To accommodate extensive new coverage, they've also split the book into two volumes. Leaner, cleaner, and completely up-to-date, Volume II covers leading-edge techniques for the entire Android app development lifecycle, from concept to market. Content throughout every chapter has been updated to reflect the latest SDKs, tools, and devices, and the book's completely overhauled sample code is all provided on CD. Darcey and Conder cover hot topics ranging from tablet development to protecting against piracy, and provide even more tips and best practices for more effective development.

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1. Volume 2: Advanced Android
2. Introduction

PART 1: Advanced Android Application Design Principles
3. Threading and Asynchronous Processing
4. Working with Services
5. Leveraging SQLite Application Databases

6. Building Android Content Providers
7. Broadcasting and Receiving Intents
8. Working with Notifications
PART 2: Advanced Android User Interface Design Principles
9. Designing Powerful User Interfaces
10. Handling Advanced User Input
11. Developing Accessible Applications
12. Best Practices for Tablet and Google TV Device Development
PART 3: Leveraging Common Android APIs
13. Using Android Networking APIs
14. Using Android Web APIs
15. Using Location-Based Services (LBS) APIs
16. Using Android Multimedia APIs
17. Using Android Telephony APIs
18. Accessing Androids Hardware Sensors
19. Using Androids Optional Hardware APIs
PART 4: Drawing, Animations, and Graphics Programming with Android
20. Developing Android 2D Graphics Applications
21. Working with Animation
22. Developing Android 3D Graphics Applications
23. Using the Android NDK
PART 5: Maximizing Android's Unique Features
24. Extending Android Application Reach
25. Enabling Application Search
26. Working with Cloud-To-Device Messaging (C2DM)
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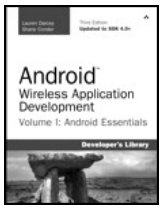

Android Wireless Application Development Volume I: Android Essentials, 3/e

Lauren Darcey
Shane Conder

ISBN10: 0321813839
ISBN13: 9780321813831
552pp ©2012 Paper

Basic Approach

Authors Lauren Darcey and Shane Conder have systematically revised and updated this guide for the newest versions of Android. To accommodate extensive new coverage, they've also split the book into two volumes. Volume I covers all the essentials of modern Android development, offering expert insights for the entire app development lifecycle, from concept to market. Darcey and Conder go beyond Android's core features, covering many of the SDK's most interesting and powerful features, from Live-Folders to wallpaper customization. They offer exclusive tips and tricks for more effective development, and new best practices for constructing apps that are portable across Android devices and versions - and easier to port to non-Android platforms, it covers more of the third party APIs for coverage like in-app billing, Google analytics, etc. and has updated and improved figures, more web references, clearer Java class name conventions, and cleaner presentation.

Table of Contents

1. Volume 1: Android Essentials
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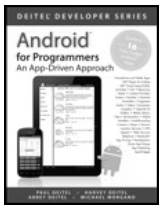
PART 1: An Overview of the Android Platform
3. Introducing Android
4. Setting Up Your Android Development Environment
5. Writing Your First Android Application
6. Mastering the Android Development Tools
PART 2: Android Application Basics
7. Understanding the Anatomy of an Android Application
8. Defining Your Application Using the Android Manifest File
9. Managing Application Resources
PART 3: Android User Interface Design Essentials
10. Exploring User Interface Screen Elements
11. Designing User Interfaces with Layouts
12. Working with Fragments
13. Working with Dialogs
PART 4: Android Application Design Essentials
14. Using Android Preferences
15. Working with Files and Directories
16. Using Content Providers
17. Designing Compatible Applications
PART 5: Publishing and Distributing Android Applications

18. The Android Software Development Process
19. Designing and Developing Bulletproof Android Applications
20. Testing Android Applications
21. Publishing Your Android Application



Android for Programmers: An AppDriven Approach,

Paul J. Deitel, *Deitel & Associates, Inc.*
Harvey M. Deitel
Abbey Deitel
Michael Morgano

ISBN10: 0132121360
ISBN13: 9780132121361
512pp ©2012 Paper

Basic Approach
The Deitels' AppDriven, Live Code Approach is simply the best way for working developers to master Android programming! Following up on their bestselling **iPhone For Programmers**, the Deitels teach Android programming through sixteen complete, working Android Apps. Each chapter presents new concepts through a single App. The authors first discuss what the App does, show screen shots, test drive the App, and present an overview of the technologies and architecture used to build it. Next, the authors walk through building the App, presenting complete code and providing a detailed "Live Code" walkthrough. As part of the code walkthrough, they discuss essential programming concepts, and demonstrate the functionality of relevant Android 2.x APIs. Readers will gain hands-on experience with a wide spectrum of essential Android APIs. They will also learn how to use Eclipse and Android Development Tools (ADT) for Eclipse to successful create, debug, and deploy Android apps. The Deitels have long been the world's #1 Java programming book authors. They have a large reader base: one that has grown even larger in the wake of their success **iPhone For Programmers**.

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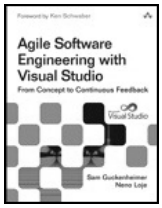
15. PHAB's Pizza App
16. Voice Recorder App
17. Enhanced Address Book App
18. 3D Art App
19. HTML5 Favorite Twitter® Searches App

Programming



Agile Software Engineering with Visual Studio: From Concept to Continuous Feedback, 2/e

Sam Guckenheimer
Neno Loje

ISBN10: 0321685857
ISBN13: 9780321685858
352pp ©2012 Paper

Basic Approach
This book is the definitive guide to the application of agile development with Scrum and modern software engineering practices using Visual Studio 2010. You'll learn how to use Visual Studio 2010 to empower and engage multidisciplinary, self-managing teams and provide the transparency they need to maximize productivity. Along the way, Guckenheimer and Loje help you overcome every major impediment that leads to stakeholder dissatisfaction—from mismatched schedules to poor quality, blocked builds to irreproducible bugs, and technology "silos" to geographic "silos."

Table of Contents
1. The Agile Consensus

2. Scrum, Agile Practices, and Visual Studio
3. Product Ownership
4. Running the Sprint
5. Architecture
6. Development
7. Build and Lab
8. Test
9. Lessons Learned at Microsoft Developer Division
10. Continuous Feedback

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Core Python Applications Programming, 3/e

Wesley Chun, *Sunnyvale, California*

ISBN10: 0132678209
ISBN13: 9780132678209
800pp ©2012 Paper

Basic Approach

In **Core Python Applications Programming**, leading software engineer and professional trainer Wesley Chun helps developers who are ready to expand their Python skills and go beyond the language and its syntax to learn about how to apply their skills to application programming. As with all Core Series books, it delivers hundreds of industrial-strength code snippets and examples (in Python 2 and 3), all targeted at professional developers, which contain not only a high-level intro but also provide real-world insights for developing applications in Python.

A favorite of Python developers, **Core Python** enters its second decade with this brand new 3rd edition containing updates to mainstay chapters as well as introducing completely new material on Django, Google App Engine, Google Storage, Twitter, text processing, Google Data API, and Programming Microsoft Office.

Table of Contents

1. Regular Expressions
2. Network Programming with Sockets
3. Internet Client Programming
4. Multithreaded Programming
5. GUI Programming
6. Web Development
7. Databases
8. Web Frameworks
9. Programming Microsoft Office
10. Web Services
11. Extending Python
12. Miscellaneous (Java/Jython, text processing with XML & JSON)

Appendix A Answers to Selected Exercises
Appendix B Reference Tables

Core Python Language Fundamentals, 3/e

Wesley Chun, *Sunnyvale, California*

ISBN10: 0132699575
ISBN13: 9780132699570
800pp © 2013 Paper

Basic Approach

Python is very easy to learn for programmers familiar with other languages such as C, C++, Java, and Visual Basic, and can significantly increase programmer productivity. It is often characterized as an agile language that promotes speedy development. The language is the basis of applications used by tens of thousands of companies and organizations worldwide, and its user base is growing rapidly, as evidenced by its use by large companies such as Google. In Core Python Programming, Third Edition, Internet software engineer and technical trainer Wesley Chun provides intermediate and experienced developers all they need to know to learn Python-fast. Like all Core Series books, it delivers hundreds of industrial-strength code snippets and examples, all targeted at professional developers who want to leverage their existing skills! It covers the core parts of the Python language and advanced topics by providing real-world insights for developing web applications.

Table of Contents

Part I: Core Python 2

1. Welcome to Python!
2. Getting Started
3. Python Basics
4. Python Objects
5. Numbers
6. Sequences: Strings, Lists, and Tuples

7. Mapping and Set Types
8. Conditionals and Loops
9. Files and Input/Output
10. Errors and Exceptions
11. Functions and Functional Programming
12. Modules
13. Object-Oriented Programming
14. Execution Environment
Part II: Advanced Topics
15. Regular Expressions
16. Network Programming
17. Internet Client Programming
18. Multithreaded Programming
19. GUI Programming
20. Web Programming
21. Database Programming
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23. Miscellaneous
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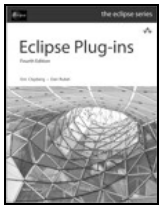

Eclipse Plug-ins, 4/e

Eric Clayberg
Dan Rubel

ISBN10: 0321774159
ISBN13: 9780321774156
976pp ©2013 Paper

Basic Approach
Eclipse Plug-ins, Fourth Edition it has been fully revised to reflect Eclipse 4.0, a milestone release containing powerful new capabilities. The authors have substantially revised more than 80% of their content, revamped and retested all sample code to reflect Eclipse 4.0 API and modern Java syntax, and completely reworked their popular Favorites View case study to reflect today's most effective techniques. Writing for Eclipse developers at all levels of experience, experts Eric Clayberg, Dan Rubel, and Jaime Wren illuminate every aspect of plug-in development, and share proven solutions for today's most common challenges. Throughout, they carefully cover new functionality added to existing Eclipse features, such as views and editors, and offer insightful explanations of new and recent additions such as GEF and PDE Build. Since its original publication, this has been the definitive book for Eclipse plug-in developers. With its latest improvements, it's now even more valuable

Table of Contents
1. Using Eclipse Tools
2. A Simple Plugin Example
3. Eclipse Infrastructure
4. The Standard Widget Toolkit
5. JFace Viewers
6. Actions
7. Views
8. Editors
9. Resource Change Tracking
10. Perspectives
11. Dialogs and Wizards 40511.1 Dialogs
12. Preference Pages
13. Properties
14. Builders, Markers, and Natures
15. Implementing Help
16. Internationalization
17. Creating New Extension Points
18. Features, Branding, and Updates
19. Building a Product
20. Advanced Topics
Appendix: Eclipse Plugins and Resources

NoSQL Distilled

Martin J. Fowler
Pramodkumar J. Sadalage

ISBN10: 0321826620
ISBN13: 9780321826626
192pp ©2012 Paper

Basic Approach
Modeled after UML Distilled, Martin Fowler's international best-seller, NoSQL Distilled is designed to provide you

with enough background on how NoSQL databases work, so that you can choose the right data store without having to trawl the whole web to do it. Fowler and Sadalage deliberately made this a small book, so you can get this overview pretty quickly. It won't answer your questions definitively, but it should narrow down the range of options you have to consider and help you understand what questions you need to ask in more detail.

Table of Contents

1. Why NoSQL?
2. Aggregate Data Models
3. More Details on Data Models
4. Distribution Models
5. Consistency
6. Version Stamps
7. MapReduce
8. Modeling Related Data
9. Schema Migrations
10. Polyglot Persistence
11. How to Choose III. Stores
12. Key Value Databases
13. Document Databases
14. Graph Databases
15. Big Table (Column) Stores
16. Memory Image
17. Bibliography

No image available

Computer Graphics: Principles and Practice, 3/e

John F. Hughes, *Brown University*
Andries van Dam
Morgan McGuire
David Sklar
James D. Foley, *Georgia Institute of Technology*
Steven K. Feiner, *Columbia University*
Kurt Akeley

ISBN10: 0321399528
ISBN13: 9780321399526
1472pp ©2013 Cloth

Basic Approach

The most comprehensive, authoritative, and up-to-date book on computer graphics now presents examples in the C programming language. As before, the authors provide a unique combination of current concepts and practical applications. Important algorithms in 2D and 3D graphics are detailed for easy implementation.

Table of Contents

1. Introduction
2. Programming in the Simple Raster Graphics Package (SRGP)
3. Basic Raster Graphics Algorithms for Drawing 2d Primitives.
4. Graphics Hardware
5. Geometrical Transformations
6. Viewing in 3D
7. Object Hierarchy and Simple PHIGS (SPHIGS)
8. Input Devices, Interaction Techniques, and Interaction Tasks.
9. Dialogue Design
10. User Interface Software
11. Representing Curves and Surfaces
12. Solid Modeling
13. Achromatic and Colored Light
14. The Quest for Visual Realism
15. Visible-Surface Determination
16. Illumination And Shading
17. Image Manipulation and Storage
18. Advanced Raster Graphic Architecture
19. Advanced Geometric and Raster Algorithms
20. Advanced Modeling Techniques
21. Animation

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Building Scalable Applications with Erlang

Jerry Jackson

ISBN10: 0321636465
ISBN13: 9780321636461
600pp ©2013 Paper

Basic Approach
How to use the radically different Erlang language to achieve extraordinary levels of application reliability, availability, and scalability

- The example-rich, step-by-step introduction to functional programming and Erlang
- Bridges the conceptual gap that frustrates those moving to Erlang from Java, C++, or other object languages
- Demonstrates Erlang's amazing power to reduce application design complexity in multi-core systems
- Shows how to build massively-scalable real-world systems with 99.9999999% uptime

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Part 1. Introduction
1. What is Erlang and Why is it Important?
2. Erlang is ConcurrencyOriented
3. Concurrency Oriented Design
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Part 2. Functional Erlang
5. What is a Functional Language?
6. A Simple Erlang Program
7. Erlang Data Types
8. Control Structures and Pattern Matching
9. HigherOrder Programming
10. Standard libraries
11. A Larger Example

Part 3. Concurrency and Mutable State
12. I/O and External State
13. Processes and Messages
14. Links and Monitors
15. Registered Names
16. The Process Dictionary
17. Tables (ETS and DETS)
18. The Mnesia Database
19. Comparing the Different Types of State

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20. Erlang Nodes and Cookies
21. RPC
22. Global Names and Locks
23. Failover

Part 5. The Open Telecom Platform (OTP)
24. Behaviors
25. Applications
26. Releases
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28. A Complete Erlang/OTP Application: Tuple Spaces

Part 6. Interacting with Other Languages
29. Java
30. C

Part 7. Bundled Applications
31. Yet Another Web Server (YAWS)
32. The Erlang Debugger

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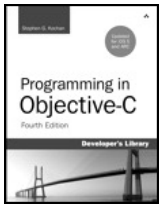

Programming in Objective C, 4/e
Stephen G. Kochan

ISBN10: 0321811909
ISBN13:9780321811905
600pp ©2012 Paper

Basic Approach
Programming in Objective C is a concise, carefully written tutorial on the basics of Objective C and object-oriented programming for Apple's iOS and Mac platforms. The book makes no assumptions about prior experience with object-oriented programming languages or with the C language (which Objective C is based upon).
Readers can also learn the concepts of object-oriented programming without having to first learn all of the intricacies of the underlying C programming language. This unique approach to learning, combined with many small program examples and exercises at the end of each chapter, makes *Programming in Objective C* ideally suited for either classroom use or self-study.

Table of Contents

1. Introduction
2. Programming in ObjectiveC
3. Classes, Objects, and Methods
4. Data Types and Expressions
5. Program Looping

6. Making Decisions
7. More on Classes
8. Inheritance
9. Polymorphism, Dynamic Typing, and Dynamic Binding
10. More on Variables and Data Types
11. Categories and Protocols
12. The Preprocessor
13. Underlying C Language Features
14. Introduction to the Foundation Framework
15. Numbers, Strings, and Collections
16. Working with Files
17. Memory Management and Automatic Reference Counting
18. Copying Objects
19. Archiving
20. Introduction to Cocoa and Cocoa Touch
21. Writing iOS Applications

A Glossary
B Address Book Example Source Code

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Programming in C, 4/e
Stephen G. Kochan

ISBN10: 0321776410
ISBN13: 9780321776419
600pp ©2013 Paper

Basic Approach
Appropriate for all introductory-to-intermediate courses on C programming, including courses covering C programming for games and small-device platforms.
Programming in C, Fourth Edition is a thoroughly revised and updated edition of Steven Kochan's classic C programming tutorial: a book that has helped thousands of students master C over the past twenty years. This edition fully reflects the latest C standard and contains current source code. It has been crafted to help students master C regardless of the platform they intend to use or the applications they intend to create—including small-device and gaming applications, where Cs elegance and speed make it especially valuable.

Table of Contents
1. Introduction.
2. Some Fundamentals.
3. Compiling and Running Your First Program
4. Variables, Data Types, and Arithmetic Expressions
5. Program Looping
6. Making Decisions
7. Working with Arrays
8. Working with Functions
9. Working with Structures
10. Character Strings
11. Pointers
12. Operations on Bits
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15. Working with Larger Programs
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Web Security Patterns
Ramesh Nagappan
Christopher Steel

ISBN10: 0321718399
ISBN13: 9780321718396
496pp ©2013 Paper

Basic Approach

The complete guide to Java EE security patterns and strategies for Web apps, Web services, and cloud-based application environments

- The highly-anticipated sequel to the authors' best-practice Java security guide, **Core Security Patterns**
- Presents expert guidance for complying with PCI DSS, HIPAA, and FISMA, and addressing OWASP's Top 10 vulnerabilities
- Patterns and best practices for secure AJAX and Web 2.0 applications, robust mash-up architectures; secure cloud infrastructures, and much more

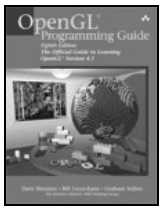
Table of Contents

Part I: Introduction to Web Security
1. Securing the Wild Web
2. Web Security: Fundamentals and Applied techniques

Part II: Web Application Security
3. Java Enterprise Security
4. XML Web Services Security
5. Securing AJAX and Web 2.0 Applications
6. Securing Mashup Applications

Part III: Cloud Application Security
7. Cloud Application Infrastructure Security

Part IV: Design Strategies and Best Practices
8. Web Infrastructure Security Patterns
9. Web Application Security Patterns
10. Web Services Security Patterns



OpenGL Programming Guide: The Official Guide to Learning OpenGL, Versions 4.1, 8/e

Dave Shreiner
The Khronos OpenGL ARB Working Group
Bill LiceaKane
Graham Sellers

ISBN10: 0321773039
ISBN13: 9780321773036
936pp ©2012 Paper

Basic Approach

With the rapid growth of new platforms, OpenGL is enjoying a resurgence throughout the graphics industry. This "Red Book" is the essential, authoritative reference to the current OpenGL 4.1 and 4.0 standards for graphics programmers at all levels of experience, working in any OpenGL environment, using any OpenGLcompatible platform. This edition has been thoroughly rewritten to reflect OpenGL 4.1 and 4.0 core features. For the first time, it includes extensive coverage of shaders and the shading pipeline (tessellation shaders). Shaders are the most dynamic, fastest changing part of the OpenGL specification, and this coverage which includes extensive material drawn from **OpenGL Shading Language** (the "Orange Book", 0321637631) has been specifically requested by many graphics programmers.

Table of Contents

1. An Introduction to OpenGL
2. An Introduction to Shaders
3. Drawing with OpenGL
4. Color and Texture
5. Viewing, Transformations, and Clipping
6. Framebuffers
7. Light and Shadow
8. Curves, Surfaces and Geometry

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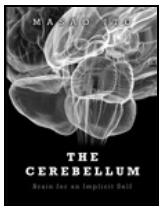
Appendix B. OpenGL and Windowing Systems
Appendix C. OpenGL and Other Programming Languages
Appendix D. Homogenous Coordinates and Transformation Reference
Appendix E. GLSL Function and Variable Reference
Appendix F. State Variables
Appendix G. std140 Uniform Buffer Layout
Appendix H. FloatingPoint Formats for Textures, Framebuffers and Renderbuffers
Appendix I. Texture Compression Formats



The Cerebellum: Brain for an Implicit Self

Masao Ito

ISBN10: 0137050682
ISBN13: 9780137050680
320pp ©2012 Cloth

Basic Approach

In **The Cerebellum**, leading neuroscientist Dr. Masao Ito advances a detailed and fascinating view of what the cerebellum contributes to brain function.
Based on these remarkable advances in our understanding of motor control mechanisms of the cerebellum, Ito presents a still larger view of the cerebellum as serving a higher level of brain functions beyond movements, including the implicit part of the thought and cognitive processes that manipulate knowledge. Ito extends his investigation of the cerebellum to discuss neural processes that may be involved implicitly in such complex mental actions as having an intuition, imagination, hallucination, or delusion.

Table of Contents

1. Neuronal Circuitry: The Key to Unlocking the Brain
2. Traditional Views of the Cerebellum
3. The Cerebellum as a Neuronal Machine
4. Input and Output Pathways in the Cerebellar Cortex
5. Inhibitory Interneurons and Glial Cells in the Cerebellar Cortex
6. Pre and PostCerebellar Neurons
7. Conjunctive LongTerm Depression (LTD)
8. Multiplicity and Persistency of Synaptic Plasticity
9. Network Models
10. Ocular Reflexes
11. Somatic and Autonomic Reflexes
12. Adaptive Control System Models
13. Voluntary Motor Control
14. Voluntary Eye Movement
15. Internal Models for Voluntary Motor Control
16. Motor Actions and Tool Use
17. Cognitive Functions
18. Concluding Thoughts
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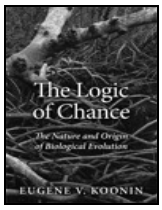

The Logic of Chance: The Nature and Origin of Biological Evolution

Eugene V. Koonin

ISBN10: 0132542498
ISBN13: 9780132542494
528pp ©2012 Cloth

Basic Approach

The Logic of Chance offers a reappraisal and a new synthesis of theories, concepts, and hypotheses on the key aspects of the evolution of life on earth in light of comparative genomics and systems biology. The author presents many specific examples from systems and comparative genomic analysis to begin to build a new, much more detailed, complex, and realistic picture of evolution. The book examines a broad range of topics in evolutionary biology including the inadequacy of natural selection and adaptation as the only or even the main mode of evolution; the key role of horizontal gene transfer in evolution and the consequent overhaul of the Tree of Life concept; the central, underappreciated evolutionary importance of viruses; the origin of eukaryotes as a result of endosymbiosis; the concomitant origin of cells and viruses on the primordial earth; universal dependences between genomic and molecular-phenomic variables; and the evolving landscape of constraints that shape the evolution of genomes and molecular phenomes.

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1. The fundamentals of evolution: Darwin and Modern Synthesis
2. From Modern Synthesis to evolutionary genomics: Multiple processes and patterns of evolution
3. Comparative genomics: Evolving genomescapes
4. Genomics, systems biology, and universals of evolution: Genome evolution as a phenomenon of statistical physics
5. The web genomics of the prokaryotic world: Vertical and horizontal flows of genes, the mobilome, and the dynamic pangenomes
6. The phylogenetic forest and the quest for the elusive Tree of Life in the age of genomics
7. The origins of eukaryotes: Endosymbiosis, the strange story of introns, and the ultimate importance of unique events in evolution
8. The nonadaptive null hypothesis of genome evolution and origins of biological complexity

9. The Darwinian, Lamarckian, and Wrightean modalities of evolution, robustness, evolvability, and the creative role of noise in evolution
10. The Virus World and its evolution
11. The Last Universal Common Ancestor, the origin of cells, and the primordial gene pool
12. Origin of life: The emergence of translation, replication, metabolism, and membranesthe biological, geochemical, and cosmological perspectives
13. The postmodern state of evolutionary biology
Appendix A: Postmodernist philosophy, metanarratives, and the nature and goals of the scientific endeavor
Appendix B: Evolution of the cosmos and life: Eternal inflation, "many worlds in one," anthropic selection, and a rough estimate of the probability of the origin of life
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The New Players in Life Sciences Innovation: Best Practices in R&D from Around the World

Tomasz Mroczkowski

ISBN10: 0132119900
ISBN13: 9780132119900
352© 2012 Cloth

Basic Approach

The global center of gravity in life sciences innovation is rapidly shifting to emerging economies. In *The New Players in Life Science Innovation*, Tomasz Mroczkowski explains how China and other new economic powers are rapidly gaining leadership positions, and thoroughly assesses the implications. Mroczkowski discusses the sophisticated innovation strategies and reforms these nations have implemented: approaches that don't rely on market forces alone, and are achieving remarkable success. Next, he previews the emerging global "bio-economy," in which life science discoveries will be applied pervasively in markets ranging from health to fuels. As R&D in the West becomes increasingly costly, Mroczkowski introduces new options for partnering with new players in the field. He thoroughly covers the globalization of clinical trials, showing how it offers opportunities that go far beyond cost reduction, and assessing the unique challenges it presents. Offering examples from China to Dubai to India, he carefully assesses the business models driving today's newest centers of innovation. Readers will find up-to-date coverage of bio-parks, technology zones, and emerging clusters, and realistic assessments of global R&D collaboration strategies such as those of Eli Lilly, Merck, Novartis, and IBM. With innovation-driven industries increasingly dominating the global economy, this book's insights are indispensable for every R&D decisionmaker and investor.

Table of Contents

1. Power Shifts in Global R&D and Innovation: What They Mean for Firms in Life Science Businesses
2. The Race for the Best National Innovation System: Who Has the Most Effective Strategy
3. A Reshuffling of Markets and Growth Opportunities
4. Improving R&D Productivity: Contract Research and Discovery Collaborations with the New Players as Solutions
5. Globalization of Clinical Trials: It Is Not Just About Slashing Costs
6. Accelerating Innovation: Bio-parks, Technology Zones, and Emerging Clusters
7. Company Strategies of Global R&D Collaborations: From West Meets West to West Meets East
8. The Future: The Expanding Universe of Global Innovation
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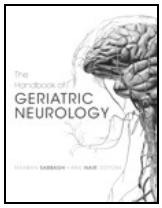


The Handbook of Geriatric Neurology

Anil Nair
Marwan Sabbagh

ISBN10: 0132099713
ISBN13:9780132099714
650pp© 2012 Cloth

Basic Approach

As the population ages, age-related neurological diseases are becoming increasingly widespread: for healthcare professionals, families, and society, finding better treatment and management approaches has become an urgent priority. In response, the subspecialty of geriatric neurology has emerged, seeking to understand and treat the full spectrum of age-related neurological diseases, including degenerative diseases (Alzheimer's, Parkinson's, ALS); gait and balance disorders, neuropathies, stroke, sleep disturbances, and other disorders. Now, two of the field's leading researchers present the first complete and current textbook covering the entire field. Filling a major gap in the literature, they offer an evidence-based scientific review of current theory, and summarize tremendous recent strides in understanding age-related neurological changes: both normal and disease-related.

No image available

Computer Security: Art and Science, 2/e

Matt Bishop, *University of California Davis*

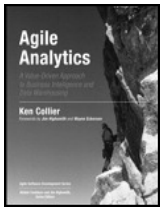
ISBN10: 0321712331
ISBN13: 9780321712332
1168pp ©2013 Cloth

Basic Approach

This book provides a thorough and comprehensive introduction to computer security. It covers both the theoretical foundations and practical aspects of secure systems. The theory demonstrates what is possible; the practical shows what is feasible. The book also discusses policy, because policy ultimately defines what is and is not "secure." Throughout, the well-known author reveals the multiplex interrelationships among the many sub-disciplines of computer security, and provides numerous examples to illustrate the principles and techniques discussed. This long-awaited book has been thoroughly class-tested at both the advanced undergraduate level, with an emphasis on its more applied coverage, and at the introductory graduate level, where theory and practice are covered more equally.

Table of Contents

INTRODUCTION.
1. An Overview of Computer Security.
FOUNDATIONS.
2. Access Control Matrix..
3. Foundational Results.
POLICY.
4. Security Policies.
5. Confidentiality Policies.
6. Integrity Policies.
7. Hybrid Policies.
8. Noninterference and Policy Composition.
IMPLEMENTATION I: CRYPTOGRAPHY.
9. Basic Cryptography.
10. Key Management.
11. Cipher Techniques.
12. Authentication.
IMPLEMENTATION II: SYSTEMS.
13. Design Principles.
14. Representing Identity
15. Access Control Mechanisms.
16. Information Flow
17. Confinement Problem.
18. Introduction to Assurance
19. Building Systems with Assurance
20. Formal Methods
21. Evaluating Systems.
SPECIAL TOPICS.
22. Malicious Logic.
23. Vulnerability Analysis.
24. Auditing.
25. Intrusion Detection.
PRACTICUM.
26. Network Security.
27. System Security
28. User Security
29. Program Security.



Agile Analytics: A Value-Driven Approach to Business Intelligence and Data Warehousing

Ken W. Collier

ISBN10: 032150481X
ISBN13: 9780321504814
368pp ©2012 Paper

Basic Approach

In ***Agile Analytics*,** Agile pioneer Ken Collier shows how Agile methods can bring far greater innovation, value, and quality to any data warehousing (DW), business intelligence (BI), or analytics project. Collier introduces platform-agnostic Agile solutions for integrating infrastructures consisting of diverse operational, legacy, and specialty systems that mix commercial and custom code. Using working examples, he shows how to manage analytics development teams with widely diverse skill sets; support enormous and fast-growing data volumes; and more. Collier's techniques offer equal value for "back-end" data management, "front-end" business analysis, or

both. With his help, you can mitigate project risk, improve alignment, optimize your results--and even have fun doing it.

Table of Contents

Part I: Agile Analytics: Management Methods 1
1. Introducing Agile Analytics
2. Agile Project Management
3. Community, Customers, and Collaboration
4. User Stories for BI Systems
5. SelfOrganizing Teams Boost Performance

Part II: Agile Analytics: Technical Methods
6. Evolving Excellent Design
7. TestDriven Data Warehouse Development
8. Version Control for Data Warehousing
9. Project Automation
10. Final Words

References and Recommended Reading
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Service Design Patterns: Fundamental Design Solutions for SOAP/WSDL and RESTful Web Services

Robert Daigneau

ISBN10: 032154420X
ISBN13: 9780321544209
352pp ©2012 Cloth

Basic Approach

In ***Service Design Patterns,*** Rob Daigneau codifies proven design solutions for web services that follow the REST architectural style or leverage the SOAP/WSDL specifications. This catalogue identifies the fundamental topics in web service design and lists the common design patterns for each topic. All patterns identify the context in which they may be used, explain the constituent design elements, and explore the relative strengths and trade-offs. Code examples are provided to help you better understand how the patterns work but are kept general so that you can see how the solutions may be applied to disparate technologies that will inevitably change in the years to come.

Table of Contents

1. From Objects to Web Services
2. Web Service API Styles
3. ClientService Interactions
4. Request and Response Management
5. Web Service Implementation Styles
6. Web Service Infrastructures
7. Web Service Evolution

Appendix: Reference to External Patterns
Glossary
Bibliography
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Doing Hard Time: Developing Real-Time Systems with UML, Objects, Frameworks, and Patterns (paperback)

Bruce Powel Douglass

ISBN10: 0321774930
ISBN13: 9780321774934
800 ©2012 Paper

Basic Approach

Doing Hard Time is written to facilitate the daunting process of developing real-time systems. It presents an embedded systems programming methodology that has been proven successful in practice. The process outlined in this book allows application developers to apply practical techniques--garnered from the mainstream areas of object-oriented software development--to meet the demanding qualifications of real-time programming.
Bruce Douglass offers ideas that are up-to-date with the latest concepts and trends in programming. By using the industry standard Unified Modeling Language (UML), as well as the best practices from object technology, he guides you through the intricacies and specifics of real-time systems development. Important topics such as schedulability, behavioral patterns, and real-time frameworks are demystified, empowering you to become a more effective real-time programmer.

Table of Contents

SECTION 1: BASICS.
1. Introduction to Objects and the Unified Modeling Language.
2. Basic Concepts of Real-Time Systems
3. Basic Concepts of Safety-Critical Systems
4. Rapid Object-Oriented Process for Embedded Systems

SECTION 2: ANALYSIS.

1. Requirements Analysis of Real-Time Systems
2. Structural Object Analysis
3. Object Behavioral Analysis
SECTION 3: DESIGN.
4. Architectural Design
5. Mechanistic Design
6. Detailed Design
SECTION 4. ADVANCED REAL-TIME MODELING.
7. Threads and Schedulability
8. Dynamic Modeling
9. Real-Time Frameworks
Appendix A: UML Notation Summary.
Appendix B: Introduction to Rhapsody.
Appendix C: Introduction to Timewiz.
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SOA with Java

Thomas Erl
Satadru Roy
Phillip Thomas
Andre Tost
Khanderao Kand
Raj Balasubramanian

ISBN10: 0132435896
ISBN13: 9780132435895
848pp ©2013 Cloth

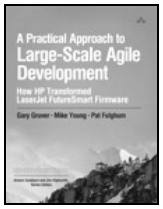
Basic Approach

The only detailed, hands-on tutorial on building and implementing service-oriented solutions with modern Java services technologies

Thoroughly covers key trends in Java-based SOA, including security and cloud computing
Shows how to build superior solutions by combining proven SOA principles, patterns, and practices
Includes many case studies drawn from the authors' unsurpassed experience, with contributions from IBM, Oracle, and other leaders

Table of Contents

1. Introduction
2. Case Study Background
Part I. Fundamentals
3. Fundamental SOA Concepts
4. Basic Java Distributed Technologies
5. Web Service Technologies
6. Building Web Services with Java
Part II. Building Services with Java
7. Service-Orientation Principles with Java Web Services
8. Utility Services with Java
9. Entity Services with Java
Task Services with Java
10. Service Composition with Java
Part III. Enterprise SOA with Java
11. Advanced Java Web Services Technologies
12. ESB as SOA Infrastructure
13. Enterprise SOA Foundations with Java
14. SOA Performance Tuning with Java
15. SOA Security
16. Portals and the Presentation Layer
17. Cloud Computing with Java



Practical Approach to Large-Scale Agile Development, A: How HP Transformed LaserJet Future-Smart Firmware

Gary Gruver
Mike Young
Pat Fulghum

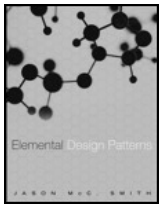
ISBN10: 0321821726
ISBN13: 9780321821720
208pp ©2012 Paper

Basic Approach

In this book, agile pioneers at HP present a candid, start-to-finish insider's look at how they've succeeded with agile in one of HP's most important software functions: firmware development for HP LaserJet printers. This book's authors honestly discuss both their successes and failures, presenting actionable lessons for other large-scale development organizations, as well as approaches that have proven themselves repeatedly in HP's challenging environment. Writing for both managers and technologists, they illuminate the benefits of agile in large-scale development - and systematically show how these benefits can actually be achieved.

Table of Contents

1. Agile Principles Vs. Practices
2. Tuning Agile to Your Business Objectives
3. Aligning Architecture With Business Objectives
4. How to Bring Up a New Architecture Using Agile Concepts
   the Real Secret to Success in Large-Scale Agile
5. Continuous Integration and Quality Systems
6. Taming the Planning Beast
   the Right Tools Quantum Leaps in Productivity
7. Effective Agile Development Across U.S. and Indian Cultures
8. Real-World Agile Results (HP Futures-mart Firmware)
9. Taking the First Step



Elemental Design Patterns
Jason McColm Smith

ISBN10: 0321711920
ISBN13: 9780321711922
408pp ©2012 Cloth

Basic Approach
This book introduces a new class of design patterns: the Elemental Design Patterns (EDPs). These form a foundation for the study — and more importantly — effective application of software engineering design patterns. While their basis is in research, the EDPs are designed to be extremely practical and pragmatic. The content is intended for both beginning programmers and seasoned developers. By using the EDPs set forth in this book, the readers have a new set of tools at their disposal, a richer understanding of the basic concepts of programming that are used every day, and knowledge of how EDPs relate and interact with each other to do amazing things.

Table of Contents

1. Introduction to Design Patterns
2. Elemental Design Patterns
3. Pattern Instance Notation
4. Working With EDPs
5. EDP Catalog
6. Intermediate Pattern Compositions
7. Gang of Four Pattern Compositions

Appendix A: Calculus
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The CUDA Handbook: A Comprehensive Guide to GPU Programming
Nicholas Wilt

ISBN10: 0321809467
ISBN13: 9780321809469
512pp ©2012 Paper

Basic Approach
The book will be mostly reference and part cookbook. Careful descriptions of the hardware and software abstractions, best practices, and example source code will be included. Much of the source code will come in the form of reusable “micro-benchmarks” or “micro-demos” designed to expose specific hardware characteristics or highlight specific use cases. Best practices will be discussed and accompanied with source code. One idea that will be emphasized is the “EERS Principle” (Empirical Evidence Reigns Supreme): determining the fastest way to perform a given operation is best done empirically.

Web Development

Introducing HTML5, 2/e
Bruce Lawson
Remy Sharp

ISBN10: 0321784421
ISBN13: 9780321784421
312pp ©2012 Paper

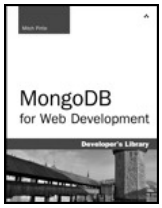
Basic Approach
Written by developers who have been using the new language for the past two years in their work, this book shows students how to start adapting the language now to realize its benefits on today's browsers. By following the book's hands-on HTML5 code examples they'll learn:

• new semantics and structures to help your site become richer and more accessible
• how to apply the most important JavaScript APIs that are already implemented
• the uses of native multimedia for video and audio
• techniques for drawing lines, fills, gradients, images and text with canvas
• how to build more intelligent web forms • implementation of new storage options and web databases
• how geo-location works with HTML5 in both web and mobile applications

All the code from this book (and more) is available at www.introducinghtml5.com.

Table of Contents

1. Main Structure
2. Text
3. Forms
4. Video and Audio
5. Canvas
6. Storage
7. Offline
8. Drag and Drop
9. Geolocation
10. Messages, Workers, and Sockets



MongoDB for Web Development
Mitch Pirtle

ISBN10: 0321705335
ISBN13: 9780321705334
360pp ©2013 Paper

Basic Approach
The first book on MongoDB, the breakthrough high-performance non-relational database for state-of-the-art web development!

- Shows how to use one of today's most powerful new technologies for building web sites faster, with better performance, greater scalability, and less complexity
- Covers MongoDB development in PHP, Ruby, Python and Java, with sample applications in all languages
- By MongoDB expert and high-profile author Mitch Pirtle, co-creator of the award-winning Joomla! content management system

Table of Contents

1. Introduction
2. Getting Started
3. MongoDB Concepts
4. Working with Documents
5. Working with Binary Files
6. Working with Queries
7. Advanced Queries
8. Query Optimization
9. MongoDB Administration
10. MongoDB Sharding
11. Example Applications

Appendix A. Installing MongoDB
Appendix B. Installing MongoDB Libraries: PHP, Python, Java, Ruby, C++ , Perl
Appendix C. MongoDB Tools
Appendix D. Third Party Tools

Definitive XML Schema, 2/e
Priscilla Walmsley

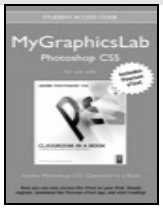
ISBN10: 0132886723
ISBN13: 9780132886727
680pp ©2013 Paper

Basic Approach
This is an introduction to XML for readers who are not information specialists. It describes XML in plain English, and covers key XML-related specifications, including XSLT, FinML, ebML, S2ML, HL/7, NewsML, and DocBook XML. It explains how companies are deploying XML today in their enterprises, and shows how even competing companies are cooperating to create industry-specific XML languages to conduct their business.

Table of Contents

1. Schemas: An introduction.
2. A quick tour of XML Schema.
3. Namespaces.
4. Schema composition.
5. Instances and schemas.
6. Schema documentation and extension.
7. Element declarations.
8. Attribute declarations.
9. Simple types.
10. Regular expressions.
11. Union and list types.
12. Built-in simple types.
13. Complex types.
14. Deriving complex types.
15. Reusable groups.
16. Substitution groups.
17. Identity constraints.
18. Redefining schema components.
19. Topics for DTD users.
20. Naming considerations.
21. Extensibility and reuse.
22. Appendix A: Table of XSDL keywords.
23. Appendix B: Built-in simple types.
24. Index.

Adobe



MyGraphicsLab Photoshop Course with Adobe Photoshop CS5 Classroom in a Book

Adobe Creative Team

ISBN10: 0132756315
ISBN13: 9780132756310
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This package (ISBN: 0132756315) contains:
1 access card for access to the MyGraphicsLab Photoshop course
1 copy of Adobe Photoshop CS5: Classroom in a Book print text
1 copy of Adobe Photoshop CS5: Classroom in a Book eText

Basic Approach

The 14 project-based lessons in this book show students step-by-step the key techniques for working in Photoshop CS5. In addition to learning the key elements of the Photoshop interface, they'll learn how to edit images with precise selection control, correct a wide range of lens-based errors, interactively transform their images with the new Puppet Warp tool, and easily remove or replace image elements with the new Content-Aware Fill mode. The book also covers new powerful painting effects to artistically enhance images and shows how to combine multiple exposures into a single HDR image. The companion DVD-ROM includes sample project files for students to use as they work their way through the lessons in the book, as well as video training from Learn Adobe Photoshop CS5 by Video (9780321719805).

Table of Contents

1. GETTING STARTED
2. GETTING TO KNOW THE WORK AREA
3. BASIC PHOTO CORRECTIONS
4. WORKING WITH SELECTIONS
5. LAYER BASICS
6. CORRECTING AND ENHANCING DIGITAL PHOTOGRAPHS
7. MASKS AND CHANNELS
8. TYPOGRAPHIC DESIGN
9. VECTOR DRAWING TECHNIQUES
10. ADVANCED LAYERING
11. ADVANCED COMPOSITING
12. PAINTING WITH THE MIXER BRUSH
13. WORKING WITH 3D IMAGES
14. PREPARING FILES FOR THE WEB
15. PRODUCING AND PRINTING CONSISTENT COLOR

Visit **www.mygraphicslab.com** for more information or go directly to www.coursecompass.com to purchase immediate access to MyGraphicsLab with your instructor's CourseID.

MyGraphicsLab Illustrator Course with Adobe Illustrator CS5 Classroom in a Book

Adobe Creative Team

ISBN10: 0132756358
ISBN13: 9780132756358
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This package (ISBN: 0132756358) contains:
1 access card for access to the MyGraphicsLab Illustrator course
1 copy of Adobe Illustrator CS5: Classroom in a Book print text
1 copy of Adobe Illustrator CS5: Classroom in a Book eText

Basic Approach

The 15 project-based lessons in this book show students step-by-step the key techniques for working in Illustrator CS5. They learn how to create vector artwork for virtually any project and across multiple media: print, websites, interactive projects, and video. In addition to learning the key elements of the Illustrator interface, they'll learn how to integrate their artwork with Adobe Flash movies, Adobe InDesign layouts, and Adobe Flash Catalyst software to add interaction to their designs. The companion CD-ROM includes sample project files for students to use as they work their way through the lessons in the book.

Premium quality video tutorials: These videos show graphic design tools in action and provide an engaging multimedia experience with realworld examples and demonstrations.

Table of Contents

1. Getting Started
2. Getting to Know the Work Area
3. Selecting and Aligning
4. Creating and Editing Shapes
5. Transforming Objects
6. Drawing with the Pen and Pencil Tools
7. Color and Painting
8. Working with Type
9. Working with Layers
10. Working with Perspective Drawing
11. Blending Colors And Shapes
12. Working with Brushes
13. Applying Effects
14. Applying Appearance Attributes and Graphic Styles
15. Working with Symbols
16. Combining Illustrator CS5 Graphics with Other

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MyGraphicsLab InDesign Course with Adobe InDesign CS5 Classroom in a Book

Adobe Creative Team

ISBN10: 0132756404
ISBN13: 9780132756402
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This package (ISBN: 0132756404) contains:
1 access card for access to the MyGraphicsLab InDesign course
1 copy of Adobe InDesign CS5: Classroom in a Book print text
1 copy of Adobe InDesign CS5: Classroom in a Book eText

Basic Approach

The 14 project-based lessons show students step-by-step the key techniques for working with InDesign CS5. This completely revised CS5 edition covers the new tools for interactive documents, simplified object selection, multiple page sizes, track text changes, new layers panel, production enhancements, and print to digital capability. The companion CD includes sample project files for students to use as they work their way through the lessons in the book, plus two bonus chapters.

Fresh and innovative projects: The projects come with downloadable project files that reinforce core concepts and offer opportunity for creative hands-on experience.

Table of Contents

1. Getting Started
2. Introducing the Workspace
3. Getting to Know InDesign
4. Setting up a Document and Working with Pages
5. Working with Objects
6. Flowing Text
7. Editing Text
8. Working with Typography
9. Working with Color
10. Working with Styles
11. Importing and Modifying Graphics

12. Creating Tables
13. Working With Transparency
14. Outputing and Exporting
15. Creating Rich interactive documents
16. Appendix: Color Management
17. *Bonus 15 (on disc) Working with Long Documents*

MyGraphicsLab Flash Professional Course with Adobe Flash Professional CS5 Classroom in a Book

Adobe Creative Team

ISBN10: 0132756447
ISBN13: 9780132756440
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This package (ISBN: 0132756447) contains:
1 access card for access to the MyGraphicsLab Flash course
1 copy of Adobe Flash Professional CS5: Classroom in a Book print text
1 copy of Adobe Flash Professional CS5: Classroom in a Book eText

Basic Approach

Using step-by-step instructions with projects that build on the knowledge gained in each lesson, students learn the key elements of the Flash interface. From there they learn how to work with graphics, create and edit symbols, modify text, add interactivity with ActionScript 3.0, and incorporate animation and sound into their projects. Students also learn how to take advantage of the new features of Flash CS5. There's also a new real-world project that teaches them how to create interactivity with buttons by creating an interactive restaurant guide. The companion DVD includes lesson files for students to use as they work their way through the lessons in the book, as well as up to two hours of premium video training from *Learn Adobe Flash Professional CS5 by Video (9780321719829).*

Pre or post test quizzes: Allow you to track your progress and see where you may need extra attention.

Table of Contents

1. Getting Started
1. Getting Acquainted
2. Working with Graphics
3. Creating and Editing Symbols
4. Adding Animation with Motion Tweens
5. Adding Articulated Motion and Morphing
6. Creating Interactive Navigation
7. Working with Text
8. Working with Sound and Video
9. Loading and Controlling Flash Content
10. Publishing Flash Documents

MyGraphicsLab Dreamweaver Course with Adobe Dreamweaver CS5 Classroom in a Book

Adobe Creative Team

ISBN10: 0132756498
ISBN13: 9780132756495
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This package (ISBN: 0132756498) contains:
1 access card for access to the MyGraphicsLab Dreamweaver course
1 copy of Adobe Dreamweaver CS5: Classroom in a Book print text
1 copy of Adobe Dreamweaver CS5: Classroom in a Book eText

Basic Approach

The 17 project-based lessons in this book show students step-by-step the key techniques for working in Dreamweaver CS5. They'll learn what they need to know to create a professional website without having to delve into code. This edition has been completely revised to cover top features, including features unique to Dreamweaver CS5, such as code inspect, Adobe browser labs, and dynamic CSS trouble-shooting. Students will even learn to add interactive elements to their sites, such as Flash video and animation, get guidance for working with code, and finally publish a finished site to the Web. The companion DVD includes lesson files so students can work along with the book, as well video training from *Learn Adobe Dreamweaver CS5 by Video* (9780321701770).

eText: When you purchase MyGraphicsLab with any of the companion texts, the entire eText version can be accessed in one easy click from the main eText page. You'll be able to easily navigate between MyGraphicsLab and the eText to read course assignments, bookmark relevant material, search for content, highlight text, take notes, and review for quizzes.

Table of Contents

1. Getting Started
2. Customizing Your Workspace
3. HTML Basics
4. CSS Basics

5. Getting a Quick Start with a CSS Layout
6. Creating a page layout from scratch
7. Working with Cascading Style Sheets
8. Working with templates
9. Working with Text, Lists, and Tables
10. Working with Images
11. Working with Navigation
12. Adding Interactivity
13. Working with Flash
14. Working with Forms
15. Building pages with Data: Spry, ASP, PHP and ColdFusion
16. Working with Third-Party Components/Services
17. Working with Code
18. Publishing to the Web

MyGraphicsLab Photoshop Course with Photoshop CS5 for Windows and Macintosh: Visual QuickStart Guide
Elaine Weinmann
Peter Lourekas

ISBN10: 0132756331
ISBN13: 9780132756334
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This package (ISBN: 0132756331) contains:
1 access card for access to the MyGraphicsLab Photoshop course
1 copy of Adobe Photoshop CS5: Visual QuickStart Guide print text
1 copy of Adobe Photoshop CS5: Visual QuickStart Guide eText

Basic Approach
This best-selling guide from authors Elaine Weinmann and Peter Lourekas has been the go-to tutorial and reference book for photography/design professionals and the textbook of choice in college classrooms for decades.

This fully updated edition includes: concise, step-by-step instructions; hundreds of carefully edited full color photographs; screen captures of program features; supplemental tips and sidebars; a thorough table of contents and index; and extensive cross references. New and updated Photoshop CS5 features are clearly marked with bright red stars in both the table of contents and main text.
Among the new CS5 features covered in this volume are enhancements to brushes, workspaces, copying layers, Refine Mask, Lens Correction, the Spot Healing Brush, Camera Raw, and Bridge (including the new Mini Bridge).

Product Description
MyGraphicsLab is an exciting new learning solution that will challenge you with creative assignments that are fresh and applicable to today's design field. In order to use MyGraphicsLab, you will need a CourseID provided by your instructor; MyGraphicsLab is not a self-study product and does require you to be in an instructor-led course. Customers without a CourseID will not be able to use MyGraphicsLab.

MyGraphicsLab Illustrator Course with Illustrator CS5: Visual QuickStart Guide
Elaine Weinmann
Peter Lourekas

ISBN10: 0132756382
ISBN13: 9780132756389
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This package (ISBN: 0132756382) contains:
1 access card for access to the MyGraphicsLab Illustrator course
1 copy of Adobe Illustrator CS5: Visual QuickStart Guide print text
1 copy of Adobe Illustrator CS5: Visual QuickStart Guide eText

Basic Approach
This fully updated edition uses clear, concise, step-by-step instructions to cover the essential Illustrator CS5 skills. New Illustrator CS5 features are marked with bright red stars for easy identification. There are hundreds of full-color Illustrator graphics and screen captures of program features throughout, with key illustrations available for download and practice from a Web site. Among the new CS5 features covered in this volume are bristle brushes, drawing modes, arrows, Width tool, Shape Builder tool, and Mini Bridge. Enhancements to such features as path joining, artboards, pixel-perfect drawing, and Art brushes are also covered.

Table of Contents
1. Create & Save Files
2. Manage Color
3. Workspaces
4. Panels
5. Bridge
6. Geometric Objects
7. Freehand Drawing
8. Select

9. Move, Copy & Align
10. Fill & Stroke
11. Transform
12. Reshape
13. Layers
14. Appearances
15. Effects
16. Graphic Styles
17. Live Trace
18. Live Paint
19. Create Type
20. Style & Edit Type
21. Pen Tools
22. Acquire Images
23. Brushes
24. Gradients
25. Combine Paths
26. Clipping Masks
27. Transparency
28. Symbols
29. Live Color
30. Preferences
31. Print
32. Export

MyGraphicsLab InDesign Course with InDesign CS5: Visual QuickStart Guide
Sandee Cohen

ISBN10: 0132756420
ISBN13: 9780132756426
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1 copy of Adobe InDesign CS5: Visual QuickStart Guide print text
1 copy of Adobe InDesign CS5: Visual QuickStart Guide eText

Basic Approach
Adobe InDesign CS5 for Macintosh and Windows: Visual QuickStart Guide highlights the important new features, as well as covering the ones readers have relied on in previous versions of InDesign. Complete coverage of InDesign CS5's new features includes: tools for interactive documents, including the new animation panel; simplified object selection; multiple page sizes; track text changes; new layers panel, live captions; production enhancements, and print to digital capability. Using the task-based, visual approach that readers count on in the Visual QuickStart Guides, this volume introduces readers to all aspects of InDesign CS5. Users will learn how to create and automate documents, import and style text and objects, manage long documents, export files for a wide variety of purposes, and much more.

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MyGraphicsLab Flash Professional Course with Flash Professional CS5: Visual QuickStart Guide
Katherine Ulrich

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Basic Approach
With Flash Professional CS5 Visual QuickStart Guide, students get a solid grounding in the fundamentals of the most recent version of the software. Highlights include working with new-style text in the text-layout framework (practically a mini-page-layout program inside Flash), working with the new Color panel and other updated interface features, a look at the deco tool's expanded pattern set, plus creating ActionScript using Flash's improved automatic-code-completion features and code snippets.

MyGraphicsLab Dreamweaver Course with Dreamweaver CS5: Visual QuickStart Guide

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Basic Approach

Adobe Dreamweaver CS5 for Windows and Macintosh: Visual QuickStart Guide uses a combination of task-based instruction and strong visuals to teach beginning and intermediate students how to create, design, and publish powerful, innovative Web sites with Dreamweaver. Leading technology authors Tom Negrino and Dori Smith take them step-by-step through the new features in Adobe Dreamweaver CS5, with completely revised chapters on critical tools like styling pages with CSS and adding user interactivity with JavaScript dynamic elements. They also cover the new ability of Dreamweaver to build and modify sites that use popular content management systems, such as WordPress, Joomla!, and Drupal. Beginning students will learn to create their first Web site, add text, style and lay out page content, manage styles, work with links, incorporate images, media, tables, forms, and frames, design site navigation, and so much more. Experienced students will find this a convenient reference to the new features of Dreamweaver CS5.

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