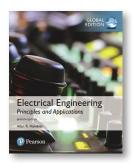
Engineering

Electrical Engineering



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Electrical Engineering: Principles and Applications helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields and to enhance the overall learning process. Circuit analysis, digital systems, electronics and electromechanics are covered. This edition has been updated with many new practice tests and end-of-chapter problems.



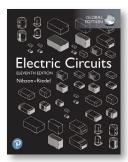
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Ronald Tocci, Neal Widmer & Greg Moss

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Course: Digital Electronics

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Electronics Fundamentals: Circuits, Devices & Applications, 8e

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Course: Introduction to Electronics

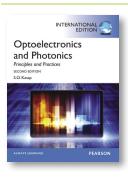
This renowned text offers a comprehensive yet practical exploration of basic electrical and electronic concepts, hands-on applications and troubleshooting. Written in a clear and accessible narrative, the Seventh Edition focuses on fundamental principles and their applications to solving real circuit analysis problems and devotes six chapters to examining electronic devices.



Digital Design, 6e M. Morris Mano & Michael D. Ciletti 9781292231167 • ©2019 720pp • Paperback eBook version available

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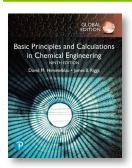
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Chemical Engineering



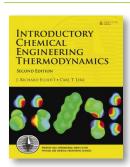
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David M. Himmelblau & James B. Riggs

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Updated to reflect today's sweeping changes in chemical engineering curricula, the latest edition of Basic Principles and Calculations in Chemical Engineering offers a strong foundation of skills and knowledge - guiding students through formulating and solving material and energy balance problems, as well as describing gases, liquids and vapors. It introduces efficient, consistent, student-friendly methods for solving problems, analyzing data and gaining a conceptual, application-based understanding of modern chemical engineering processes. Now with new coverage and examples related to biotechnology, nanotechnology, green/ environmental engineering and process safety, as well as many new MATLAB and Python problems throughout.

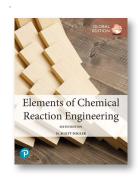


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Course: Thermodynamics

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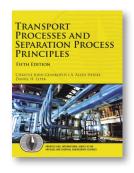


Elements of Chemical Reaction Engineering, 6e

H. Scott Fogler 9781292416663 · ©2021 1080pp • Paperback

Course: Chemical Reaction Engineering

Writing for today's students, Fogler provides instant access to information, avoids extraneous details, and presents novel problems linking theory to practice. The book thoroughly prepares undergraduates to apply chemical reaction kinetics and physics to the design of chemical reactors, and four advanced chapters address graduate-level topics. Plus, each chapter now ends with a practical safety lesson.

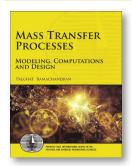


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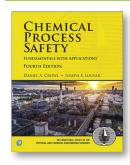
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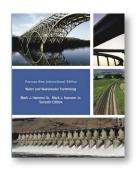


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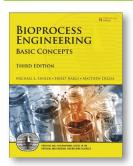
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Mark J. Hammer, Sr. & Mark J. Hammer

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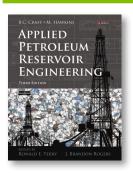
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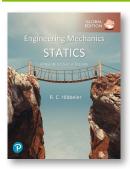
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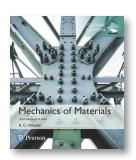
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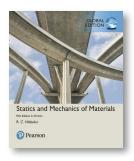
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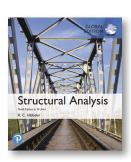


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Structural Engineering



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Course: Structural Analysis

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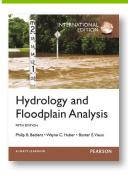
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Essentials of Soil Mechanics and Foundations: Basic Geotechnics provides a clear, detailed presentation of soil mechanics: the background and basics, the engineering properties and behavior of soil deposits and the application of soil mechanics theories. Appropriate for soil mechanics courses in engineering, architectural and construction-related programs, this edition features a separate chapter on earthquakes, a more logical organization and new material relating to pile foundations design and construction and soil permeability.

Environmental Engineering



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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.

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Power and Machines



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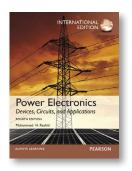
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Course: Electric Machines

This best-selling text employs a theoretical, practical, multidisciplinary approach to provide introductory students with a broad understanding of modern electric power. The scope of the book reflects the rapid changes that have occurred in power technology over the past few years – allowing the entrance of power electronics into every facet of industrial drives and expanding the field to open more career opportunities.



Power Electronics: Devices, Circuits and Applications, 4e

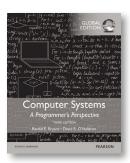
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This text covers the basics of emerging areas in power electronics and a broad range of topics such as power switching devices, conversion methods, analysis and techniques and applications. Its unique approach covers the characteristics of semiconductor devices first, then discusses the applications of these devices for power conversions. Four main applications are included: flexible ac transmissions (FACTs), static switches, power supplies, dc drives and ac drives.

Computer Engineering



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Course: Computer Architecture

Computer systems: A Programmer's Perspective explains the underlying elements common among all computer systems and how they affect general application performance. Written from the programmer's perspective, this book strives to teach students how understanding basic elements of computer systems and executing real practice can lead them to create better programs. Spanning across computer science themes such as hardware architecture, the operating system and systems software, the Third Edition serves as a comprehensive introduction to programming.



Parallel Algorithms CP

Pranay Chaudhuri 9780133519822 · ©1992 300pp • Paperback

Course: Parallel Processing

This book covers a wealth of important material on parallel algorithms in depth for the solution of problems in a variety of application areas highlighting the importance of parallel graph algorithms. It covers all existing material and research on parallel graph algorithms as well as other important topics relating to parallel algorithms such as: parallel matrix and boolean matrix multiplication algorithms.



8051 Microcontroller and Embedded Systems, 2e

Muhammad Ali Mazidi, Janice G. Mazidi & Rolin D. McKinlay

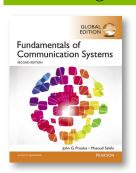
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Course: Embedded Systems

Mazidi's 8051 Microcontroller text emphasizes the programming and interfacing of the 8051. A systematic, step-by-step approach is used to cover various aspects of 8051. C and Assembly language programming and interfacing. Many examples and sample programs are given to clarify the concepts and provide students with an opportunity to learn by doing.

Networking and Communication



Fundamentals of Communication Systems, 2e

John G. Proakis & Masoud Salehi 9781292015682 · ©2014 928pp • Paperback eBook version available

Course: Communication Systems

This text introduces the basic techniques used in modern communication systems and provides fundamental tools and methodologies used in the analysis and design of these systems. The authors emphasize digital communication systems, including new generations of wireless communication systems, satellite communications and data transmission networks. A background in calculus, linear algebra, basic electronic circuits, linear system theory and probability and random variables is assumed.



Computer Networks, 5e

Andrew S. Tanenbaum & David J. Wetherall 9781292024226 • ©2013

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Course: Computer Networks

Tanenbaum takes a structured approach to explaining how networks work from the inside out. He starts with an explanation of the physical layer of networking, computer hardware and transmission systems; then works his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing and streaming media.



Digital Communications: Fundamentals and Applications, 2e

Bernard Sklar 9781292026060 • ©2013 1072pp • Paperback

Course: Digital Communication

Exceptionally accessible, this book presents the often difficult concepts of digital communications in an easy-to-understand manner - without diluting the mathematical precision. Using a student-friendly approach, it develops the important techniques in the context of a unified structure – providing organization and structure to a field that has and continues, to grow rapidly and ensuring that students gain an awareness of the big picture even while delving into the details. It traces signals and key processing steps from the information source through the transmitter, channel, receiver and ultimately to the information sink.

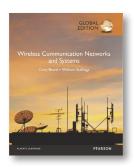


Advanced Electronic Communications Systems, 6e

Wayne Tomasi 9781292027357 • ©2013 620pp • Paperback eBook version available

Course: Telecommunications

Comprehensive in scope and contemporary in coverage, this text explores modern digital and data communications systems, microwave radio communications systems, satellite communications systems and optical fiber communications systems.



Wireless Communication Networks and Systems

Cory Beard & William Stallings

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eBook version available

Course: Wireless Communications

Wireless Communication Networks and Systems covers all types of wireless communications, from satellite and cellular to local and personal area networks. Organized into four easily comprehensible, readerfriendly parts, it presents a clear and comprehensive overview of the field of wireless communications. For those who are new to the topic, the book explains basic principles and fundamental topics concerning the technology and architecture of the field.

Signals and Systems



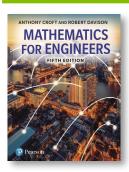
Signals and Systems, 2e Alan V. Oppenheim, Alan S. Willsky & S. Hamid

9781292025902 • ©2013 948pp • Paperback

Course: Signals and Systems

This comprehensive exploration of signals and systems develops continuous-time and discretetime concepts/methods in parallel – highlighting the similarities and differences. It features introductory treatments of the applications of these basic methods in such areas as filtering, communication, sampling, discrete-time processing of continuoustime signals and feedback. Relatively self-contained, the text assumes no prior experience with system analysis, convolution, Fourier analysis, or Laplace and z-transforms.

Numerical Methods



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Microcomputers, Microprocessors and Chips



Assembly Language for x86 Processors, 7e

Kip R. Irvine

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Course: Assembly Language Programming - IBM PC

Written specifically for 32- and 64-bit Intel/Windows platform, this complete and fully updated study of assembly language teaches students to write and debug programs at the machine level. This text simplifies and demystifies concepts that students need to grasp before they can go on to more advanced computer architecture and operating systems courses. Students put theory into practice through writing software at the machine level, creating a memorable experience that gives them the confidence to work in any OS/machine-oriented environment.



The 8051 Microcontroller: A Systems Approach

Muhammad A. Mazidi, Rolin D. McKinlay & Janice G. Mazidi

9781292027265 • ©2013 576pp • Paperback

eBook version available

Course: Microcontrollers

The 8051 Microprocessor: A Systems Approach emphasizes the programming and interfacing of the 8051. Using a systematic, step-by-step approach, the text covers various aspects of 8051, including C and Assembly language programming and interfacing. Throughout each chapter, examples, sample programs and sectional reviews clarify the concepts and offer students an opportunity to learn by doing.

Engineering Economy and Management



Engineering Economy, 16e

William G. Sullivan, Elin M. Wicks & C. Patrick Koelling

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Available with MyLab Engineering

Course: Engineering Economy

Used by engineering students worldwide, this bestselling text provides a sound understanding of the principles, basic concepts and methodology of engineering economy. Explanations and examples that are student-centered and practical in real-life situations help students develop proficiency in the methods and processes for making rational decisions. Built upon the rich and time-tested teaching materials of earlier editions, the text is extensively revised and updated to reflect current trends and issues. The new edition captures the spirit of environmental sustainability with more than 160 "green" problems, as well as new end-of-chapter problems and group exercises and includes updates to the new 2017 Federal Tax code revisions.



Contemporary Engineering Economics, 6e

Chan S. Park

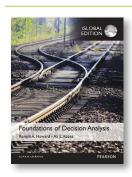
9781292109091 • ©2015 984pp • Paperback

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Available with MyLab Engineering

Course: Engineering Economy

Contemporary Engineering Economics teaches engineers how to make smart financial decisions in an effort to create economical products. As design and manufacturing become an integral part of engineers' work, they are required to make more and more decisions regarding money. The Sixth Edition helps students think like the 21st century engineer who is able to incorporate elements of science, engineering, design and economics into his or her products.



Foundations of Decision Analysis

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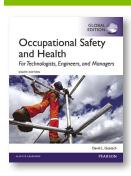
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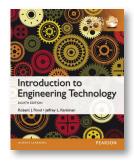


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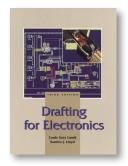
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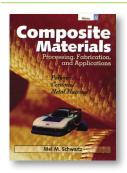


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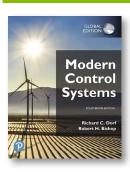
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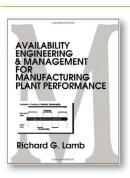
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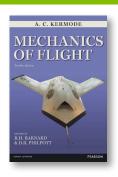
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