

# Fundamentals Of Engineering Economics Park Torrent

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*Rules of Play* Katie Salen Tekinbas 2003-09-25 An impassioned look at games and game design that offers the most ambitious framework for understanding them to date. As pop culture, games are as important as film or television—but game design has yet to develop a theoretical framework or critical vocabulary. In *Rules of Play* Katie Salen and Eric Zimmerman present a much-needed primer for this emerging field. They offer a unified model for looking at all kinds of games, from board games and sports to computer and video games. As active participants in game culture, the authors have written *Rules of Play* as a catalyst for innovation, filled with new concepts, strategies, and methodologies for creating and understanding games. Building an aesthetics of interactive systems, Salen and Zimmerman define core concepts like "play," "design," and "interactivity." They look at games through a series of eighteen "game design schemas," or conceptual frameworks, including games as systems of emergence and information, as contexts for social play, as a storytelling medium, and as sites of cultural resistance. Written for game scholars, game developers, and interactive designers, *Rules of Play* is a textbook, reference book, and theoretical guide. It is the first comprehensive attempt to establish a solid theoretical framework for the emerging discipline of game design.

**Principles of Economics** Libby Rittenberg 2011-07

**Contemporary Engineering Economics, Global Edition** Chan S. Park 2016-01-08 For courses in engineering and economics Comprehensively blends engineering concepts with economic theory 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. This text comprehensively integrates economic theory with principles of engineering, helping students build sound skills in financial project analysis. MyEngineeringLab™ not included. Students, if MyEngineeringLab is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN and course ID. MyEngineeringLab should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information. MyEngineeringLab is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts. Instructors can choose from a wide range of assignment options, including time limits, proctoring, and maximum number of attempts allowed. The bottom line: MyEngineeringLab means less time grading and more time teaching.

**Successfully Managing the Risk and Development of Your Business and Technology** Hiroshi Honda 2000

**Fundamentals of Engineering Economic Analysis** John A. White 2020-07-28 Fundamentals of Engineering Economic Analysis offers a powerful, visually-rich approach to the subject—delivering streamlined yet rigorous coverage of the use of economic analysis techniques in engineering design. This award-winning textbook provides an impressive array of pedagogical tools to maximize student engagement and comprehension, including learning objectives, key term definitions, comprehensive case studies, classroom discussion questions, and challenging practice problems. Clear, topically-organized chapters guide students from fundamental concepts of borrowing, lending, investing, and time value of money, to more complex topics such as capitalized and future worth, external rate of return, depreciation, and after-tax economic analysis. This fully-updated second edition features substantial new and revised content that has been thoroughly re-designed to support different learning and teaching styles. Numerous real-world vignettes demonstrate how students will use economics as practicing engineers, while plentiful illustrations, such as cash flow diagrams, reinforce student understanding of underlying concepts. Extensive digital resources now provide an immersive interactive learning environment, enabling students to use integrated tools such as Excel. The addition of the WileyPLUS platform provides tutorials, videos, animations, a complete library of Excel video lessons, and much more.

*FE Civil Practice Problems for the Civil Fundamentals of Engineering Exam* Michael R. Lindeburg 2014-02-25 Complement your "FE Civil Review Manual" study with these discipline-specific practice problems.

**Fundamentals of Crystallography** Carmelo Giacobozzo 1992 Offers a rigorous treatment of the theory of crystallography and detailed descriptions of experimental applications in a wide range of sciences, including computational aspects, protein crystallography and crystal physics.

*The Return of Great Power Rivalry* Matthew Kroenig 2020 This book seeks to answer to a central international politics: why do great powers rise and fall? It provides an innovative argument about how domestic political institutions are the key to a state's ability to amass power and influence in the international system. This text also offers a sweeping historical analysis of democratic and autocratic competitors from ancient Greece through the Cold War. This book employs a unique framework to understand and analyze the state of today's competition between the democratic United States and its autocratic competitors, Russia and China.

**Convex Optimization** Stephen Boyd 2004-03-08 A comprehensive introduction to the tools, techniques and applications of convex optimization.

*Engineering Economics* Niall M. Fraser 2012-03-05 Engineering Economics: Financial Decision Making for Engineers is designed for teaching a course on engineering economics to match engineering practice today. It recognizes the role of the engineer as a decision maker who has to make and defend sensible decisions. Such decisions must not only take into account a correct assessment of costs and benefits, they must also reflect an understanding of the environment in which the decisions are made. The 5th edition has new material on project management in order to adhere to the CEAB guidelines as well the new edition will have a new spreadsheet feature throughout the text.

**Risk Analysis in Engineering and Economics** Bilal M. Ayyub 2003-06-26 More than any other book available, *Risk Analysis in Engineering and Economics* introduces the fundamental concepts, techniques, and applications of the subject in a style tailored to meet the needs of students and practitioners of engineering, science, economics, and finance. Drawing on his extensive experience in uncertainty and risk modeling and analysis, the author leads readers from the fundamental concepts through the theory, applications, and data requirements, sources, and collection. He emphasizes the practical use of the methods presented and carefully examines

the limitations, advantages, and disadvantages of each. Case studies that incorporate the techniques discussed offer a practical perspective that helps readers clearly identify and solve problems encountered in practice. If you deal with decision-making under conditions of uncertainty, this book is required reading. The presentation includes more than 300 tables and figures, more than 100 examples, many case studies, and a wealth of end-of-chapter problems. Unlike the classical books on reliability and risk assessment, this book helps you relate underlying concepts to everyday applications and better prepares you to understand and use the methods of risk analysis.

**ENGINEERING ECONOMICS** R. PANNEERSELVAM 2013-10-21 Designed as a textbook for undergraduate students in various engineering disciplines—Mechanical, Civil, Industrial Engineering, Electronics Engineer-ing and Computer Science—and for postgraduate students in Industrial Engineering and Water Resource Management, this comprehensive and well-organized book, now in its Second Edition, shows how complex economic decisions can be made from a number of given alternatives. It provides the managers not only a sound basis but also a clear-cut approach to making decisions. These decisions will ultimately result in minimizing costs and/or maximizing benefits. What is more, the book adequately illustrates the concepts with numerical problems and Indian cases. While retaining all the chapters of the previous edition, the book adds a number of topics to make it more comprehensive and more student friendly. What's New to This Edition • Discusses different types of costs such as average cost, recurring cost, and life cycle cost. • Deals with different types of cost estimating models, index numbers and capital allowance. • Covers the basics of nondeterministic decision making. • Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation. • Discusses the basic concepts of Accounting. This book, which is profusely illustrated with worked-out examples and a number of diagrams and tables, should prove extremely useful not only as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

*Die Design Fundamentals* Vukota Boljanovic 2006 Retaining its unique and much praised organization, this leading text has been revised to reflect the most recent developments in design tools. It provides balanced coverage of relevant fundamentals and real-world practices so that students, apprentices and on-the-job professionals can understand the important and often complex interrelationships between die design and the economic factors involved in manufacturing sheet-metal forming products. Following introductory material and a discussion of 20 types of dies in Chapter 2, the design process of a representative die is separated into seventeen distinct chapters. Each chapter is one step which is illustrated in two ways; first, as a portion of an engineering drawing, that is, as the component is actually drawn on the design. Second, the die design is shown pictorially in order to improve the user's visualization. In successive sections each step is detailed as it is applied to the design of the various types of dies listed in Chapter 2. Includes English and Metric systems. Covers new methods of producing blanks, such as waterjet cutting and laser cutting. Contains a glossary of terms for the first time. Illustrates each step in pictorial view and as a portion of an engineering drawing. Offers a completely revised chapter on presses and quick die-changing systems and includes the addition of "Quick Die Change Systems".

**Principles of Environmental Economics** Ahmed Hussen 2004-05-05 Can economic growth be environmentally sustainable? This crucial question goes right to the heart of environmental economics and is a matter of increasing concern globally. The first edition of this popular title was the first introductory textbook in environmental economics that truly attempted to integrate economics with not only the environment but also ecology. This new version builds and improves upon the popular formula with new material, new examples, new pedagogical features and new questions for discussion. With international case-studies and examples, this book will prove an excellent choice for introducing both students and other academics to the world of environmental economics.

*Hydrogen Energy Engineering* Kazunari Sasaki 2016-09-07 This book focuses on the fundamental principles and latest research findings in hydrogen energy fields including: hydrogen production, hydrogen storage, fuel cells, hydrogen safety, economics, and the impact on society. Further, the book introduces the latest development trends in practical applications, especially in commercial household fuel cells and commercial fuel cell vehicles in Japan. This book not only helps readers to further their basic knowledge, but also presents the state of the art of hydrogen-energy-related research and development. This work serves as an excellent reference for beginners such as graduate students, as well as a handbook and systematic summary of entire hydrogen-energy systems for scientists and engineers.

*The Fourth Industrial Revolution* Klaus Schwab 2017-01-03 The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In *The Fourth Industrial Revolution*, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all.

**Mathematics for Machine Learning** Marc Peter Deisenroth 2020-03-31 Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.

**Engineering Economic Analysis** Donald G. Newnan 2018-02-05 Praised for its accessible tone and extensive problem sets, this trusted text familiarizes students with the universal principles of engineering economics. This essential introduction features a wealth of specific Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new chapter on project management.

*Interventional Radiology* Bradley B. Pua 2018-12-03 In 2012, the American Board of Medical Specialties (ABMS) approved Interventional Radiology (IR) as its own specialty. Born out of the field of Diagnostic Radiology, IR requires a more clinical focus on initial consultation and post-procedural management, rather than its previous role of performing image-guided procedures. Interventional Radiology:

Fundamentals of Clinical Practice is written with this new focus in mind to help readers incorporate their procedural knowledge into a holistic approach of patient management. Chapters explore topics across a broad spectrum of IR, with a focus on etiology and pathophysiology of disease, followed by discussions on intra-procedural and post-procedural management. Numerous tables and boxes, and over 420 total figures complement chapter content. This comprehensive text is a must-have text for IR residents and reference for all practicing interventional radiologists.

**Chemical Engineering Design** Gavin Towler 2012-01-25 Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

**Engineering Economy** Leland T. Blank 2001-08-01 This student-friendly text on the current economic issues particular to engineering covers the topics needed to analyze engineering alternatives. Students use both hand-worked and spreadsheet solutions of examples, problems and case studies. In this edition the options have been increased with an expanded spreadsheet analysis component, twice the number of case studies, and virtually all new end-of-chapter problems. The chapters on factor derivation and usage, cost estimation, replacement studies, and after-tax evaluation have been heavily revised. New material is included on public sector projects and cost estimation. A reordering of chapters puts the fundamental topics up front in the text. Many chapters include a special set of problems that prepare the students for the Fundamentals of Engineering (FE) exam. This text provides students and practicing professionals with a solid preparation in the financial understanding of engineering problems and projects, as well as the techniques needed for evaluating and making sound economic decisions. Distinguishing characteristics include learning objectives for each chapter, an easy-to-read writing style, many solved examples, integrated spreadsheets, and case studies throughout the text. Graphical cross-referencing between topics and quick-solve spreadsheet solutions are indicated in the margin throughout the text. While the chapters are progressive, over three-quarters can stand alone, allowing instructors flexibility for meeting course needs. A complete online learning center (OLC) offers supplemental practice problems, spreadsheet exercises, and review questions for the the Fundamentals of Engineering (FE) exam.

**Solutions Manual to Accompany Engineering Economics for Capital Investment Analysis** Tung Au 1983

**Schaums Outline of Engineering Economics** Jose A. Sepulveda 1984-06-22 Reviews basic economic concepts, including compound interest, equivalence, present worth, rate of return, depreciation, and cost-benefit ratios

**Ten Strategies of a World-Class Cybersecurity Operations Center** Carson Zimmerman 2014-07-01 Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, [www.mitre.org](http://www.mitre.org).

**The World of Learning** 1976

**To Engineer is Human** Henry Petroski 2018-10-16 "Though ours is an age of high technology, the essence of what engineering is and what engineers do is not common knowledge. Even the most elementary of principles upon which great bridges, jumbo jets, or super computers are built are alien concepts to many. This is so in part because engineering as a human endeavor is not yet integrated into our culture and intellectual tradition. And while educators are currently wrestling with the problem of introducing technology into conventional academic curricula, thus better preparing today's students for life in a world increasingly technological, there is as yet no consensus as to how technological literacy can best be achieved. " I believe, and I argue in this essay, that the ideas of engineering are in fact in our bones and part of our human nature and experience. Furthermore, I believe that an understanding and an appreciation of engineers and engineering can be gotten without an engineering or technical education. Thus I hope that the technologically uninitiated will come to read what I have written as an introduction to technology. Indeed, this book is my answer to the questions 'What is engineering?' and 'What do engineers do?'" - Henry Petroski, To Engineer is Human

**Maritime Economics** Alan Branch 2013-04-15 Now in its second edition Maritime Economics provides a valuable introduction to the organisation and workings of the global shipping industry. The author outlines the economic theory as well as many of the operational practicalities involved. Extensively revised for the new edition, the book has many clear illustrations and tables. Topics covered include: \* an overview of international trade \* Maritime Law \* economic organisation and principles \* financing ships and shipping companies \* market research and forecasting.

**The Europa World of Learning** Joseph Bascom St. John 2005 Provides: over 26,000 academic institutions, 150,000 staff and officials; extensive coverage of universities, colleges and other centres of learning; and detailed information on over 400 international cultural, scientific and educational organizations.

**The Economics of Wind Energy** 2009

**Fundamentals of Engineering Economics** Chan S. Park 2009 This work offers a concise, but in-depth coverage of all fundamental topics of engineering economics. **Bioprocess Engineering** Shijie Liu 2012-11-21 Bioprocess Engineering involves the design and development of equipment and processes for the manufacturing of products such as food, feed, pharmaceuticals, nutraceuticals, chemicals, and polymers and paper from biological materials. It also deals with studying various biotechnological processes. "Bioprocess Kinetics and Systems Engineering" first of its kind contains systematic and comprehensive content on bioprocess kinetics, bioprocess systems, sustainability and reaction engineering. Dr. Shijie Liu reviews the relevant fundamentals of chemical kinetics-including batch and continuous reactors, biochemistry, microbiology, molecular biology, reaction engineering, and bioprocess systems engineering- introducing key principles that enable bioprocess engineers to engage in the analysis, optimization, design and consistent control over biological and chemical transformations. The quantitative treatment of bioprocesses is the central theme of this book, while more advanced techniques and applications are covered with some depth. Many theoretical derivations and simplifications are used to demonstrate how empirical kinetic models are applicable to complicated bioprocess systems. Contains extensive illustrative drawings which make the understanding of the subject easy Contains worked examples of the various process parameters, their significance and their specific practical use Provides the theory of bioprocess kinetics from simple concepts to complex metabolic pathways Incorporates sustainability concepts into the various bioprocesses

**World of Learning 2005 Vol2** Driss Fatih 2004 Contains information on international organizations and individual chapters on academic institutions in countries from Afghanistan to Zimbabwe. A comprehensive index is included in both volumes.

**Foundations of Economics** Yanis Varoufakis 2002-01-08 Foundations of Economics breathes life into the discipline by linking key economic concepts with wider debates and issues. By bringing to light delightful mind-teasers, philosophical questions and intriguing politics in mainstream economics, it promises to enliven an otherwise dry course whilst inspiring students to do well. The book covers all the main economic concepts and addresses in detail three main areas: \* consumption and choice \* production and markets \* government and the State. Each is discussed in terms of what the conventional textbook says, how these ideas developed in historical and philosophical terms and whether or not they make sense. Assumptions about economics as a discipline are challenged, and several pertinent students' anxieties ('Should I be studying economics?') are discussed.

**Carbon Dioxide Capture and Storage** Intergovernmental Panel on Climate Change. Working Group III. 2005-12-19 IPCC Report on sources, capture, transport, and storage of CO<sub>2</sub>, for researchers, policy-makers and engineers.

**Principles of Economics 2e** Steven A. Greenlaw 2017-10-11

**Canadian Who's Who 2003** Elizabeth Lumley 2003-03 Now in its ninety-third year of publication, this standard Canadian reference source contains the most comprehensive and authoritative biographical information on notable living Canadians. Those listed are carefully selected because of the positions they hold in Canadian society, or because of the contribution they have made to life in Canada. The volume is updated annually to ensure accuracy, and more than 1,000 new entries are added each year to keep current with developing trends and issues in Canadian society. Included are outstanding Canadians from all walks of life: politics, media, academia, business, sports and the arts, from every area of human activity. Each entry details birth date and place, education, family, career history, memberships, creative works, honours and awards, and full addresses. Indispensable to researchers, students, media, business, government and schools, Canadian Who's Who is an invaluable source of general knowledge. The complete text of Canadian Who's Who is also available on CD-ROM, in a comprehensively indexed and fully searchable format. Search 'astronaut' or 'entrepreneur of the year,' 'aboriginal achievement award' and 'Order of Canada' and discover a wealth of information. Fast, easy and more accessible than ever, the Canadian Who's Who on CD-ROM is an essential addition to your computer library. Network Licencing available. ISBN 0-8020-4973-7 For pricing information, please contact (416) 978-2239 ext. 221 or 247 [publishing@utpress.utoronto.ca](mailto:publishing@utpress.utoronto.ca) PST 8% applicable to Ontario residents on all of the above CD-ROM requirements: WINDOWS: 95/98/2000/NT - 386/25Mhz - 4mb RAM (8mb recommended) MAC: System 7 or higher - 4mb RAM (8mb recommended)

**Structural Design for Fire Safety** Andrew H. Buchanan 2017-01-30 Structural Design for Fire Safety, 2nd edition Andrew H. Buchanan, University of Canterbury, New Zealand Anthony K. Abu, University of Canterbury, New Zealand A practical and informative guide to structural fire engineering This book presents a comprehensive overview of structural fire engineering. An update on the first edition, the book describes new developments in the past ten years, including advanced calculation methods and computer programs. Further additions include: calculation methods for membrane action in floor slabs exposed to fires; a chapter on composite steel-concrete construction; and case studies of structural collapses. The book begins with an introduction to fire safety in buildings, from fire growth and development to the devastating effects of severe fires on large building structures. Methods of calculating fire severity and fire resistance are then described in detail, together with both simple and advanced methods for assessing and designing for structural fire safety in buildings constructed from structural steel, reinforced concrete, or structural timber. Structural Design for Fire Safety, 2nd edition bridges the information gap between fire safety engineers, structural engineers and building officials, and it will be useful for many others including architects, code writers, building designers, and firefighters. Key features: • Updated references to current research, as well as new end-of-chapter questions and worked examples. • Authors experienced in teaching, researching, and applying structural fire engineering in real buildings. • A focus on basic principles rather than specific building code requirements, for an international audience. An essential guide for structural engineers who wish to improve their understanding of buildings exposed to severe fires and an ideal textbook for introductory or advanced courses in structural fire engineering.

**Basic Economics** Thomas Sowell 2014-12-02 The bestselling citizen's guide to economics Basic Economics is a citizen's guide to economics, written for those who want to understand how the economy works but have no interest in jargon or equations. Bestselling economist Thomas Sowell explains the general principles underlying different economic systems: capitalist, socialist, feudal, and so on. In readable language, he shows how to critique economic policies in terms of the incentives they create, rather than the goals they proclaim. With clear explanations of the entire field, from rent control and the rise and fall of businesses to the international balance of payments, this is the first book for anyone who wishes to understand how the economy functions. This fifth edition includes a new chapter explaining the reasons for large differences of wealth and income between nations. Drawing on lively examples from around the world and from centuries of history, Sowell explains basic economic principles for the general public in plain English.

**Visioning Technologies** Graham Cairns 2016-12-08 Visioning Technologies brings

together a collection of texts from leading theorists to examine how architecture has been, and is, reframed and restructured by the visual and theoretical frameworks introduced by different 'technologies of sight' – understood to include orthographic projection, perspective drawing, telescopic devices, photography, film and computer visualization, amongst others. Each chapter deals with its own area and historical period of expertise, organized sequentially to mark out and analyse the historical evolution of how architecture has been transformed by technologically induced shifts in human perception from the 15th century until today. This book underlines the way in which architectural forms and design processes have developed historically in conjunction with the systems of sight we manufacture technologically and suggests this continues today. Paradoxically, it is premised on the argument that these technological systems tend, in their initial formulations, to obtain ever greater realism in our visualizations of the physical world.

**Engineering Fundamentals: An Introduction to Engineering, SI Edition** Saeed Moaveni

2011-01-01 Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.