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Models of Network Reliability-Ilya B. Gertsbakh 2016-04-19 Unique in its approach, Models of Network Reliability: Analysis, Combinatorics, and Monte Carlo provides a brief introduction to Monte Carlo methods along with a concise exposition of reliability theory ideas. From there, the text investigates a collection of principal network reliability models, such as terminal connectivity for networks with unreliable edges and/or nodes, network lifetime distribution in the process of its destruction, network stationary behavior for renewable components, importance measures of network elements, reliability gradient, and network optimal reliability synthesis. Solutions to most principal network reliability problems—including medium-sized computer networks—are presented in the form of efficient Monte Carlo algorithms and illustrated with numerical examples and tables. Written by reliability experts with significant teaching experience, this reader-friendly text is an excellent resource for software engineering, operations research, industrial engineering, and reliability engineering students, researchers, and engineers. Stressing intuitive explanations and providing detailed proofs of difficult statements, this self-contained resource includes a wealth of end-of-chapter exercises, numerical examples, tables, and offers a solutions manual—making it ideal for self-study and practical use.

Essential Mathematical Methods for the Physical Sciences-K. F. Riley 2011-02-17 The mathematical methods that physical scientists need for solving substantial problems in their fields of study are set out clearly and simply in this tutorial-style textbook. Students will develop problem-solving skills through hundreds of worked examples, self-test questions and homework problems. Each chapter concludes with a summary of the main procedures and results and all assumed prior knowledge is summarized in one of the appendices. Over 300 worked examples show how to use the techniques and around 100 self-test questions in the footnotes act as checkpoints to build student confidence. Nearly 400 end-of-chapter problems combine ideas from the chapter to reinforce the concepts. Hints and outline answers to the odd-numbered problems are given at the end of each chapter, with fully-worked solutions to these problems given in the accompanying Student Solutions Manual. Fully-worked solutions to all problems, password-protected for instructors, are available at [www.cambridge.org/essential](http://www.cambridge.org/essential).

Protective Relaying-J. Lewis Blackburn 2015-09-15 For many years, Protective Relaying: Principles and Applications has been the go-to text for gaining proficiency in the technological fundamentals of power system protection. Continuing in the bestselling tradition of the previous editions by the late J. Lewis Blackburn, the Fourth Edition retains the core concepts at the heart of power system analysis. Featuring refinements and additions to accommodate recent technological progress, the text: Explores developments in the creation of smarter, more flexible protective systems based on advances in the computational power of digital devices and the capabilities of communication systems that can be applied within the power grid Examines the regulations related to power system protection and how they impact the way protective relaying systems are designed, applied, set, and monitored Considers the evaluation of protective systems during system disturbances and describes the tools available for analysis Addresses the benefits and problems associated with applying microprocessor-based devices in protection schemes Contains an expanded discussion of intertie protection requirements at dispersed generation facilities Providing information on a mixture of old and new equipment, Protective Relaying: Principles and Applications, Fourth Edition reflects the present state of power systems currently in operation, making it a handy reference for practicing protection engineers. And yet its challenging end-of-chapter problems, coverage of the basic mathematical requirements for fault analysis, and real-world examples ensure engineering students receive a practical, effective education on protective systems. Plus, with the inclusion of a solutions manual and figure slides with qualifying course adoption, the Fourth Edition is ready-made for classroom implementation.

Data Mining: Concepts and Techniques-Jiawei Han 2011-06-09 Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

MATLAB for Engineers-Holly Moore 2013 MATLAB for Engineers is intended for use in the first-year or introductory course in Engineering and Computer Science departments. It is also suitable for readers interested in learning MATLAB. ÿ 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. ÿ Teaching and Learning Experience This program will provide a better teaching and learning experience-for you and your students. Customize your Course with ESource: Instructors can adopt this title as is, or use the ESource website to select the chapters they need, in the sequence they want. Introduce MATLAB Clearly: Three well-organized sections gets students started with MATLAB, introduce students to programming, and demonstrate more advanced programming techniques. Reinforce Core Concepts with Hands-on Activities: Examples and exercises demonstrate how MATLABcan be used to solve a variety of engineering problems. Keep Your Course Current: Significant changes were introduced in version MATLAB 2012b, including the introduction of MATLAB 8 which has a redesigned user-interface. The changes in this edition reflect these software updates. Support Learning with Instructor Resources: A variety of resources are available to help to enhance your course.

Mechanical Measurements- 1969

VHDL for Engineers-Kenneth L. Short 2014 Suitable for use in a one- or two-semester course for computer and electrical engineering majors. VHDL for Engineers teaches readers how to design and simulate digital systems using the hardware description language, VHDL. These systems are designed for implementation using programmable logic devices (PLDs) such as complex programmable logic devices (CPLDs) and field programmable gate arrays (FPGAs). The book focuses on writing VHDL design descriptions and VHDL testbenches. The steps in VHDL/PLD design methodology are also a key focus. Short presents the complex VHDL language in a logical manner, introducing concepts in an order that allows the readers to begin producing synthesizable designs as soon as possible.

Digital Design-M. Morris Mano 2006-12-01

Engineering Fluid Mechanics Solution Manual-

Optimal Control Theory-Donald E. Kirk 2012-04-26 Upper-level undergraduate text introduces aspects of optimal control theory: dynamic programming, Pontryagin's minimum principle, and numerical techniques for trajectory optimization. Numerous figures, tables. Solution guide available upon request. 1970 edition.

Fundamentals of Physics, Extended-David Halliday 1996-10-31 This popular book incorporates modern approaches to physics. It not only tells readers how physics works, it shows them. Applications have been enhanced to form a bridge between concepts and reasoning.

Decision Making in Engineering Design-ASME Press 2006 Whether you are an engineer facing decisions in product design, an instructor or student engaged in course work, or a researcher exploring new options and opportunities, you can turn to ""Decision Making in Engineering Design"" for: clear examples of effective application of decision-based design; state-of-the-art theory and practice in decision-based design; thoughtful insights on handling preferences, handling uncertainty, distributed design, demand modeling, validation, and other issues; end-of-chapter exercise problems to facilitate learning; and section commentaries that frame chapter contents and highlight open areas of research and application.With this advanced text, you become current with research results on DBD developed since the inception of The Open Workshop on Decision-Based Design, a project funded by the National Science Foundation.

Engineering Mechanics-R. C. Hibbeler 2010 Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition is ideal for civil and mechanical engineering professionals. In his substantial revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most technologically advanced online tutorial and homework system.

Fundamentals of Solid-state Electronics-Chih-Tang Sah 1991 This is perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics. It presents basic and state-of-the-art topics on materials physics, device physics, and basic circuit building blocks not covered by existing textbooks on the subject. Each topic is introduced with a historical background and motivations of device invention and circuit evolution. Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics. Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts. It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study.Used very successfully in a one-semester introductory core course for electrical and other engineering, materials science and physics junior students, the second part of each chapter is also used in an advanced undergraduate course on solid state devices. The inclusion of previously unavailable analyses of the basic transistor digital circuit building blocks and cells makes this an excellent reference for engineers to look up fundamental concepts and data, design formulae, and latest devices such as the GeSi heterostructure bipolar transistors.

Advanced Engineering Mathematics-Michael Greenberg 2013-09-20 Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

College Physics-Paul Peter Urone 1998-01-01 This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

Calculus-Earl W. Swokowski 2000-06 This edition of Swokowski's text is truly as its name implies: a classic. Groundbreaking in every way when first published, this book is a simple, straightforward, direct calculus text. It's popularity is directly due to its broad use of applications, the easy-to-understand writing style, and the wealth of examples and exercises which reinforce conceptualization of the subject matter. The author wrote this text with three objectives in mind. The first was to make the book more student-oriented by expanding discussions and providing more examples and figures to help clarify concepts. To further aid students, guidelines for solving problems were added in many sections of the text. The second objective was to stress the usefulness of calculus by means of modern applications of derivatives and integrals. The third objective, to make the text as accurate and error-free as possible, was accomplished by a careful examination of the exposition, combined with a thorough checking of each example and exercise.

Essential Organic Chemistry-Paula Yurkanis Bruice 2014-12-24 NOTE: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. If you would like to purchase both the physical text and MasteringChemistry search for 032196747X / 9780321967473 Essential Organic Chemistry 3/e Plus MasteringChemistry with eText -- Access Card Package: The access card package consists of: 0321937716 / 9780321937711 Essential Organic Chemistry 3/e 0133857972 / 9780133857979 MasteringChemistry with PearsonKey Benefits: MasteringChemistry should only be purchased when required by an instructor. For one-term Courses in Organic Chemistry. A comprehensive, problem-solving approach for the brief Organic Chemistry course. Modern and thorough revisions to the streamlined, Essential Organic Chemistry focus on developing students' problem solving and analytical reasoning skills throughout organic chemistry. Organized around reaction similarities and rich with contemporary biochemical connections, Bruice'sThird Edition discourages memorization and encourages students to be mindful of the fundamental reasoning behind organic reactivity: electrophiles react with nucleophiles. Developed to support a diverse student audience studying organic chemistry for the first and only time, Essentials fosters an understanding of the principles of organic structure and reaction mechanisms, encourages skill development through new Tutorial Spreads and emphasizes bioorganic processes. Contemporary and rigorous, Essentials addresses the skills needed for the 2015 MCAT and serves both pre-med and biology majors. Also Available with MasteringChemistry® This title is also available with MasteringChemistry - the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content. Instructors ensure students arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with in-class resources such as Learning Catalytics™. Students can further master concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions. MasteringChemistry brings learning full circle by continuously adapting to each student and making learning more personal than ever—before, during, and after class.

Bioprocess Engineering-Shijie Liu 2012-09-28 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

Vector Mechanics for Engineers-Ferdinand Pierre Beer 2000 Since their publication nearly 40 years ago, Beer and Johnston's Vector Mechanics for Engineers books have set the standard for presenting statics and dynamics to beginning engineering students. The New Media Versions of these classic books combine the power of cutting-edge software and multimedia with Beer and Johnston's unsurpassed text coverage. The package is also enhanced by a new problems supplement. For more details about the new media and problems supplement package components, see the "New to this Edition" section below.

Introduction to Information Retrieval-Christopher D. Manning 2008-07-07 Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and

implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

The Properties of Petroleum Fluids-William D. McCain 1990 A conveniently arranged petroleum fluids reference book covering components, properties, and equations for the various fluids and gases. Contents: Introduction and scope Water-in-crude-oil emulsions Characterization, phase behavior, and field processing of crude oil Separation of gas, oil and water Dehydration and desalting of crude oil Crude sweetening and stabilization Pumps Measurement of crude oil Fire heaters Pipeline transportation Energy conservation Instrumentation and process control Pressure relief and flaring Case histories Appendices.

Fundamentals of Fluid Mechanics-Bruce Roy Munson 1999

Starting Out with Java-Tony Gaddis 2013 NOTE: Before purchasing, check with your instructor to ensure you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, and registrations are not transferable. To register for and use Pearson's MyLab & Mastering products, you may also need a Course ID, which your instructor will provide. Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for Pearson's MyLab & Mastering products may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. --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. 0132989999/9780132989992 Starting Out with Java: From Control Structures through Objects plus MyProgrammingLab with Pearson eText -- Access Card Package, 5/e Package consists of: 0132855836/ 9780132855839 Starting Out with Java: From Control Structures through Objects, 5/e 0132891557/

9780132891554 MyProgrammingLab with Pearson eText -- Access Card -- for Starting Out with Java: From Control Structures through Objects, 5/e

Network Management: Principles And Practice-Subramanian 2008-02

Understanding Machine Learning-Shai Shalev-Shwartz 2014-05-19 Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Financial Management-Eugene F. Brigham 2015-01-01 Help students earn the grade they want in your course with the help of this valuable tool. This Study Guide lists important learning objectives for each chapter, outlines key sections, provides self-test questions, and offers a set of problems similar to those in the text and Test Bank with fully worked-out solutions.

Thermodynamics-Yunus A. Çengel 2002 The 4th Edition of Cengel & Boles Thermodynamics:An Engineering Approach takes thermodynamics education to the next level through its intuitive and innovative approach. A long-time favorite among students and instructors alike because of its highly engaging, student-oriented conversational writing style, this book is now the to most widely adopted thermodynamics text in theU.S. and in the world.

Introduction to Computer Theory-Daniel I. A. Cohen 1997 This text strikes a good balance between rigor and an intuitive approach to computer theory. Covers all the topics needed by computer scientists with a sometimes humorous approach that reviewers found refreshing. The goal of the book is to provide a firm understanding of the principles and the big picture of where computer theory fits into the field.

Viscous Fluid Flow 3e-White 2011 Meant as a senior or graduate level elective in Mechanical Engineering, this text includes a number of problems, explanations of, & references to ongoing controversies & trends. It contains information on technological advances, such as micro- and nano-technology, turbulence modeling, & computational fluid dynamics.

Pattern Recognition and Machine Learning-Christopher M. Bishop 2016-08-23 This is the first textbook on pattern recognition to present the Bayesian viewpoint. The book presents approximate inference algorithms that permit fast approximate answers in situations where exact answers are not feasible. It uses graphical models to describe probability distributions when no other books apply graphical models to machine learning. No previous knowledge of pattern recognition or machine learning concepts is assumed. Familiarity with multivariate calculus and basic linear algebra is required, and some experience in the use of probabilities would be helpful though not essential as the book includes a self-contained introduction to basic probability theory.

System Dynamics-Katsuhiko Ogata 2013-07-24 For junior-level courses in System Dynamics, offered in Mechanical Engineering and Aerospace Engineering departments. This text presents students with the basic theory and practice of system dynamics. It introduces the modeling of dynamic systems and response analysis of these systems, with an introduction to the analysis and design of control systems.

Calculus-Howard Anton 1998-08-28

Solutions Manual-Pauline M. Doran 1997

Mechanical Vibrations-Singiresu S. Rao 1995 This text serves as an introduction to the subject of vibration engineering at the undergraduate level. The style of the prior editions has been retained, with the theory, computational aspects, and applications of vibrations presented in as simple a manner as possible. As in the previous editions, computer techniques of analysis are emphasized. Expanded explanations of the fundamentals are given, emphasizing physical significance and interpretation that build upon previous experiences in undergraduate mechanics. Numerous examples and problems are used to illustrate principles and concepts. A number of pedagogical devices serve to motivate students' interest in the subject matter. Design is incorporated with more than 30 projects at the ends of various chapters. Biographical information about scientists and engineers who contributed to the development of the theory of vibrations given on the opening pages of chapters and appendices. A convenient format is used for all examples. Following the statement of each example, the known information, the qualities to be determined, and the approach to be used are first identified and then the detailed solution is given.

Physics for Scientists and Engineers-Paul A. Tipler 1999 This is an extensively revised edition of Paul Tipler's standard text for calculus-based introductory physics courses. It includes entirely new artwork, updated examples and new pedagogical features.

Digital Image Processing-Rafael C. Gonzalez 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For courses in Image Processing and Computer Vision. Completely self-contained—and heavily illustrated—this introduction to basic concepts and methodologies for digital image processing is written at a level that truly is suitable for seniors and first-year graduate students in almost any technical discipline. The leading textbook in its field for more than twenty years, it continues its cutting-edge focus on contemporary developments in all mainstream areas of image processing—e.g., image fundamentals, image enhancement in the spatial and frequency domains, restoration, color image processing, wavelets, image compression, morphology, segmentation, image description, and the fundamentals of object recognition. It focuses on material that is fundamental and has a broad scope of application.

Student Study Guide and Solutions Manual to accompany Organic Chemistry 2e Binder Ready Version-David R. Klein 2014-01-07 Organic chemistry is not merely a compilation of principles, but rather, it is a disciplined method of thought and analysis. Success in organic chemistry requires mastery in two core aspects: fundamental concepts and the skills needed to apply those concepts and solve problems. Readers must learn to become proficient at approaching new situations methodically, based on a repertoire of skills. These skills are vital for successful problem solving in organic chemistry. Existing textbooks provide extensive coverage of, the principles, but there is far less emphasis on the skills needed to actually solve problems.

Solution Manual-R. C. Hibbeler 2004

Machines and Mechanisms-David H. Myszka 2005 Provides the techniques necessary to study the motion of machines, and emphasizes the application of kinematic theories to real-world machines consistent with the philosophy of engineering and technology programs. This book intends to bridge the gap between a theoretical study of kinematics and the application to practical mechanism.

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