Coated Textiles Principles And Applications Second Edition

MicroComputed Tomography Microencapsulation **Great Applications for Business School, Second Edition Project Management Occupational Ergonomics** Handbook of Essential Oils *Drug Delivery* **Reinforced Soil and Its Engineering Applications Discrete Mathematics An Introduction to Synchrotron Radiation** Ecological Economics, Second Edition **Complex Variables and Applications Pump Characteristics and Applications, Second Edition** Mathematical Models of Hysteresis and their Applications **Angular for Enterprise-Ready Web Applications** Complex Analysis and Applications, Second Edition **Wireless Positioning Technologies and Applications, Second Edition** Graph Theory and Its Applications, Second Edition Basic Statistics and Pharmaceutical Statistical Applications, Second Edition *Credit Scoring and Its Applications, Second Edition Numerical Linear Algebra and Applications, Second Edition* **Shape Selective Catalysis in Industrial Applications, Second Edition,** Logistics: Principles and Applications, Second Edition Simulating Copulas: Stochastic Models, Sampling Algorithms, And Applications (Second Edition) *Thermodynamics: Principles And Applications (Second Edition) Marine Microbiology* **Semigroups of Linear Operators and Applications** Advanced Biology **Electrical Contacts Membrane Technology and Applications Maintenance, Replacement, and Reliability Network and Discrete Location** *Semigroups of Linear Operators and Applications* Game Theory and Experimental Games *Aircraft Safety Stochastic Processes with Applications to Finance, Second Edition* **Colour Design Thermodynamics Effect Sizes for Research Discrete Mathematics**

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Game Theory and Experimental Games Dec 26 2019 Game Theory and Experimental Games: The Study of Strategic Interaction focuses on the development of game theory, taking into consideration empirical research, theoretical formulations, and research procedures involved. The book proceeds with a discussion on the theory of one-person games. The individual decision that a player makes in these kinds of games is noted as influential as to the outcome of these games. This discussion is followed by a presentation of pure coordination games and minimal situation. The ability of players to anticipate the choices of others to achieve a mutually beneficial outcome is emphasized. A favorable social situation is also influential in these kinds of games. The text moves forward by presenting studies on various kinds of competitive games. The research studies presented are coupled with empirical evidence and discussion designed to support the claims that are pointed out. The book also discusses several kinds of approaches in the study of games. Voting as a way to resolve multi-person games is also emphasized, including voting procedures, the preferences of voters, and voting strategies. The book is a valuable source of data for readers and scholars who are interested in the exploration of game theories.
Maintenance, Replacement, and Reliability Mar 29 2020 A completely revised and updated edition of a bestseller, Maintenance, Replacement, and Reliability: Theory and Applications, Second Edition supplies the tools needed for making data-driven physical asset management decisions. The well-received first edition quickly became a mainstay for professors, students, and professionals, with its clear prese
Membrane Technology and Applications Apr 29 2020 Table of Contents Preface Acknowledgments for the first edition Acknowledgments for the second edition 1 Overview of Membrane Science and Technology 1 2 Membrane Transport Theory 15 3 Membranes and Modules 89 4 Concentration Polarization 161 5 Reverse Osmosis 191

Numerical Linear Algebra and Applications, Second Edition Feb 08 2021 An undergraduate textbook that highlights motivating applications and contains summary sections, examples, exercises, online MATLAB codes and a MATLAB toolkit. All the major topics of computational linear algebra are covered, from basic concepts to advanced topics such as the quadratic eigenvalue problem in later chapters.

Logistics: Principles and Applications, Second Edition Dec 06 2020 This title incorporates SI units along with corresponding U.S. Customary System units. It is valuable for anyone preparing for the Certified Professional Logistician exam. It is useful to both the military and commercial sectors

Aircraft Safety Nov 24 2019 This second edition of 'Aircraft Safety' includes a new chapter on monitoring and managing cockpit behaviour and one on spatial disorientation and has 27 new case studies which examine and explain aircraft accidents and incidents.

Thermodynamics Aug 22 2019 There are many thermodynamics texts on the market, yet most provide a presentation that is at a level too high for those new to the field. This second edition of Thermodynamics continues to provide an accessible introduction to thermodynamics, which maintains an appropriate rigor to prepare newcomers for subsequent, more advanced topics. The book presents a logical methodology for solving problems in the context of conservation laws and property tables or equations. The authors elucidate the terms around which thermodynamics has historically developed, such as work, heat, temperature, energy, and entropy. Using a pedagogical approach that builds from basic principles to laws and eventually corollaries of the laws, the text enables students to think in clear and correct thermodynamic terms as well as solve real engineering problems. For those just beginning their studies in the field, Thermodynamics, Second Edition provides the core fundamentals in a rigorous, accurate, and accessible presentation.

Handbook of Essential Oils May 23 2022 Bringing together significant research and market profiles, this comprehensive handbook provides a much-needed compilation of information related to the development, use, and marketing of essential oils, including their chemistry and biochemistry. A select group of authoritative experts explores the historical, biological, regulatory, and microbial aspects. This reference also covers sources, production, analysis, storage, and transport of oils as well as aromatherapy, pharmacology, toxicology, and metabolism. It includes discussions of biological activity testing, results of antimicrobial and antioxidant tests, and penetration-enhancing activities useful in drug delivery.

Occupational Ergonomics Jun 24 2022 In the fifteen years since the publication of Occupational Ergonomics: Theory and Applications significant advances have been made in this field. These advances include understanding the impact of ageing and obesity on workplace, the role of ergonomics in promoting healthy workplaces and healthy life styles, the role of ergonomic science in the design of consumer products, and much more. The caliber of information and the simple, practical ergonomics solutions in the second edition of this groundbreaking resource, though, haven't changed. See What's New in the Second Edition: Enhanced coverage of ergonomics in the international arena Emerging topics such as Healthcare Ergonomics and economics of ergonomics Coverage of disability management and psychosocial rehabilitation aspects of workplace and its ergonomics implication Current ergonomics solutions from "research to practice" Synergy of healthy workplaces with healthy lifestyles Impact of physical agents on worker health/safety and its control Additional problems with solutions in the appendix The book covers the fundamentals of ergonomics and the practical application of those fundamentals in solving ergonomic problems. The scope is such that it can be used as a reference for graduate students in the health sciences, engineering, technology and business as well as professional practitioners of these disciplines. Also, it can be used as a senior level undergraduate textbook, with solved problems, case studies, and exercises included in several chapters. The book blends medical and engineering applications to solve musculoskeletal, safety, and health problems in a variety of traditional and emerging industries ranging from the office to the operating room to operations engineering.

Project Management Jul 25 2022 The goal of the new edition is to continue with a systems view of the world. For a more robust and worldwide market dissemination, the new edition has changed to a reference book. The project systems approach to project management, is needed in executing projects across countries and across cultures, which is a crucial requirement in today's globalized and intertwined economics. The book uses ample graphical representations to clarify the concepts and techniques presented. The case examples help to reinforce the topics covered. Several illustrative examples and practice exercises are included. Each chapter is updated and new chapters include Project Simulation and Project Templates. A new chapter on managing complex projects in an age of artificial intelligence adds a unique value to the book. Features Highlights contemporary best practices of project management Uses a systems framework to integrate quantitative and qualitative tools Offers illustrative examples and practice exercises

Covers project schedule performance appraisal techniques Discusses the knowledge areas contained in the Project Management Book of Knowledge (PMBOK) Presents software applications for project management, as well as case examples

Pump Characteristics and Applications, Second Edition Oct 16 2021 This hands-on reference offers a practical introduction to pumps and provides the tools necessary to select, size, operate, and maintain pumps properly. It highlights the interrelatedness of pump engineering from system and piping design to installation and startup. This updated second edition expands on many subjects introduced in the first edition and also provides new in-depth discussion of pump couplings, o-rings, motors, variable frequency drives, pump life-cycle cost, corrosion, and pump minimum flow. Written by an acclaimed expert in the field, Pump Characteristics and Applications, Second Edition is an invaluable day-to-day reference for mechanical, civil, chemical, industrial, design, plant, project, and systems engineers; engineering supervisors; maintenance technicians; and plant operators. It is also an excellent text for upper-level undergraduate and graduate students in departments of mechanical engineering, mechanical engineering technology, or engineering technology. About the Author Michael W. Volk, P.E., is President of Volk & Associates, Inc., Oakland, California (www.volkassociates.com), a consulting company specializing in pumps and pump systems. Volk's services include pump training seminars; pump equipment evaluation, troubleshooting, and field testing; expert witness for pump litigation; witnessing of pump shop tests; pump market research; and acquisition and divestiture consultation and brokerage. A member of the American Society of Mechanical Engineers (ASME), and a registered professional engineer, Volk received the B.S. degree (1973) in mechanical engineering from the University of Illinois, Urbana, and the M.S. degree (1976) in mechanical engineering and the M.S. degree (1980) in management science from the University of Southern California, Los Angeles.

Discrete Mathematics Feb 20 2022

Reinforced Soil and Its Engineering Applications Mar 21 2022 Reinforced soil is a composite material formed by the association of frictional soil and tension-resistant elements in the form of sheets, strips, nets or mats of metal, synthetic fabrics, or fibre reinforced plastics, and arranged in the soil mass in such a way as to reduce or suppress the tensile strain that might develop under gravity and boundary forces. The variety and range of applications of reinforced soil techniques are unlimited. Jones (1985) identified several field applications, viz., retaining walls, abutments, quay walls, embankments, dams, hill roads, housing, foundations, railways, industry, pipe works, waterway structures and underground structures. In several countries structures have been constructed using this technique and the concept has become very popular. This book covers the basic mechanism, strength characteristics, frictional characteristics, reinforced soil, wall, wall with reinforced backfill, foundation on reinforced soil, soil nailing and randomly distributed soil. Each chapter is supported by illustrative examples for easy understanding. In this new edition, chapters on reinforced soil wall, foundation on reinforced soil, and randomly distributed reinforced soil have been substantially revised.

Network and Discrete Location Feb 26 2020 The comprehensive introduction to the art and science of locating facilities to make your organization more efficient, effective, and profitable. For the professional siting facilities, the task of translating organizational goals and objectives into concrete facilities requires a working familiarity with the theoretical and practical fundamentals of facility location planning and modeling. The first hands-on guide to using and developing facility location models, Network and Discrete Location offers a practiceoriented introduction to model-building methods and solution algorithms, complete with software to solve classical problems of realistic size and end-of-chapter exercises to enhance the reader's understanding. The text introduces the reader to the key classical location problems (covering, center, median, and fixed charge) which form the nucleus of facility location modeling. It also discusses real-life extensions of the basic models used in locating: production and distribution facilities, interacting services and facilities, and undesirable facilities. The book outlines a host of methodological tools for solving location models and provides insights into when each approach is useful and what information it provides. Designed to give readers a working familiarity with the basic facility location model types as well as an intuitive knowledge of the uses and limits of modeling techniques, Network and Discrete Location brings students and professionals alike swiftly from basic theory to technical fluency.

Ecological Economics, Second Edition Dec 18 2021 In its first edition, this book helped to define the emerging field of ecological economics. This new edition surveys the field today. It incorporates all of the latest research findings and grounds economic inquiry in a more robust understanding of human needs and behavior. Humans and ecological systems, it argues, are inextricably bound together in complex and long-misunderstood ways. According to ecological economists, conventional economics does not reflect adequately the value of essential factors like clean air and water, species diversity, and social and generational equity. By excluding biophysical and social systems from their analyses, many conventional economists have overlooked problems of the increasing scale of human impacts and the inequitable distribution of resources. This introductory-level textbook is designed specifically to address this significant flaw in economic thought. The book describes a relatively new "transdiscipline" that

incorporates insights from the biological, physical, and social sciences. It provides students with a foundation in traditional neoclassical economic thought, but places that foundation within an interdisciplinary framework that embraces the linkages among economic growth, environmental degradation, and social inequity. In doing so, it presents a revolutionary way of viewing the world. The second edition of Ecological Economics provides a clear, readable, and easy-to-understand overview of a field of study that continues to grow in importance. It remains the only stand-alone textbook that offers a complete explanation of theory and practice in the discipline.

Simulating Copulas: Stochastic Models, Sampling Algorithms, And Applications (Second Edition) Nov 05 2020 The book provides the background on simulating copulas and multivariate distributions in general. It unifies the scattered literature on the simulation of various families of copulas (elliptical, Archimedean, Marshall-Olkin type, etc.) as well as on different construction principles (factor models, pair-copula construction, etc.). The book is self-contained and unified in presentation and can be used as a textbook for graduate and advanced undergraduate students with a firm background in stochastics. Besides the theoretical foundation, ready-to-implement algorithms and many examples make the book a valuable tool for anyone who is applying the methodology.

Microencapsulation Sep 27 2022 Presenting breakthrough research pertinent to scientists in a wide range of disciplines-from medicine and biotechnology to cosmetics and pharmacy-this Second Edition provides practical approaches to complex formulation problems encountered in the development of particulate delivery systems at the micro- and nano-size level. Completely revised and e

An Introduction to Synchrotron Radiation Jan 19 2022 This book introduces the reader to the basic concepts of the generation and manipulation of synchrotron light, its interaction with matter, and the application of synchrotron light in the "classical" techniques, while including some of the most modern technological developments. As much as possible, complicated mathematical derivations and formulas are avoided. A more heuristic approach is adopted, whereby the general physical reasoning behind the equations is highlighted. Key features: A general introduction to synchrotron radiation and experimental techniques using synchrotron radiation Contains many detailed "worked examples" from the literature Of interest for a broad audience - synchrotrons are possibly one of the best examples of multidisciplinary research Four-colour presentation throughout

MicroComputed Tomography Oct 28 2022 Due to the availability of commercial laboratory systems and the emergence of user facilities at synchrotron radiation sources, studies of microcomputed tomography or microCT have increased exponentially. MicroComputed Technology provides a complete introduction to the technology, describing how to use it effectively and understand its results. The first part of the book focuses on methodology, covering experimental methods, data analysis, and visualization approaches. The second part addresses various microCT applications, including porous solids, microstructural evolution, soft tissue studies, multimode studies, and indirect analyses. The author presents a sufficient amount of fundamental material so that those new to the field can develop a relative understanding of how to design their own microCT studies. One of the first full-length references dedicated to microCT, this book provides an accessible introduction to field, supplemented with application examples and color images.

Great Applications for Business School, Second Edition Aug 26 2022 Get into the elite professional school of your dreams with a college application that will capture the attention of admission boards! Business school essays and admissions interviews are perhaps the most challenging parts of being an MBA candidate. With competition to the nation's top business schools being so fierce, you must stand out. Great Applications for Business School helps you play up strengths and talents to distinguish yourself from the rest of the competition. Features: The 8 most common admissions essay topics--and how to answer them 22 actual essays by successful applicants to top schools Self-marketing strategies to highlight your talents Candid insights from admissions officers at top-ranked business schools Topics include: Getting Started, Scoring the Goals Essay, Getting to Know You: The Non-Goals Essays, The Required Optional Essay, Credible Enthusiasm: Letters of Recommendation

Mathematical Models of Hysteresis and their Applications Sep 15 2021 This new edition has been significantly revised and updated to reflect advances in the field since the publication of the first edition, such as the systematic experimental testing of Preisach models of hysteresis. The author has, however, retained the two most salient features of the original, the emphasis on the universal nature of mathematical models of hysteresis and their applicability to the description of hysteresis phenomena in various areas of science, technology and economics and its accessibility to a broad audience of researchers, engineers, and students. · Provides a unique emphasis on the development of universal mathematical models of hysteresis · Accessibility to a broad audience, using simple and complex mathematical tools, application to various areas of science. · Presents new theoretical and experimental results

Complex Analysis and Applications, Second Edition Jul 13 2021 Complex Analysis and Applications, Second Edition explains complex analysis for students of applied

mathematics and engineering. Restructured and completely revised, this textbook first develops the theory of complex analysis, and then examines its geometrical interpretation and application to Dirichlet and Neumann boundary value problems. A discussion of complex analysis now forms the first three chapters of the book, with a description of conformal mapping and its application to boundary value problems for the two-dimensional Laplace equation forming the final two chapters. This new structure enables students to study theory and applications separately, as needed. In order to maintain brevity and clarity, the text limits the application of complex analysis to two-dimensional boundary value problems related to temperature distribution, fluid flow, and electrostatics. In each case, in order to show the relevance of complex analysis, each application is preceded by mathematical background that demonstrates how a real valued potential function and its related complex potential can be derived from the mathematics that describes the physical situation.

Colour Design Sep 22 2019 Given its importance in analysing and influencing the world around us, an understanding of colour is a vital tool in any design process. Colour design provides a comprehensive review of the issues surrounding the use of colour, from the fundamental principles of what colour is to its important applications across a vast range of industries. Part one covers the main principles and theories of colour, focusing on the human visual system and the psychology of colour perception. Part two goes on to review colour measurement and description, including consideration of international standards, approval methods for textiles and lithographic printing, and colour communication issues. Forecasting colour trends and methods for design enhancement are then discussed in part three along with the history of colour theory, dyes and pigments, and an overview of dye and print techniques. Finally, part four considers the use of colour across a range of specific applications, from fashion, art and interiors, to food and website design. With its distinguished editor and international team of contributors, Colour design is an invaluable reference tool for all those researching or working with colour and design in any capacity. Provides a comprehensive review of the issues surrounding the use of colour in textiles Discusses the application of colour across a vast range of industries Chapters cover the theories, measurement and description of colour, forecasting colour trends and methods for design enhancement

Advanced Biology Jul 01 2020 Aims to fulfil the requirements of the A Level syllabuses in biology. The course offers support for those studying biology to AS and Advanced level, including those who have studied balanced science to GCSE.

Drug Delivery Apr 22 2022 This book provides a comprehensive introduction to advanced drug delivery and targeting, covering their principles, current applications, and potential future developments. This edition has been updated to reflect significant trends and cutting-edge advances that have occurred since the first edition was published. All the original chapters have been retained, but the material therein has been updated. Eight new chapters have been added that deal with entirely new technologies and approaches. Features: Offers a comprehensive introduction to the fundamental concepts and underlying scientific principles of drug delivery and targeting Presents an in-depth analysis of the opportunities and obstacles afforded by the application of nanotechnologies for drug delivery and targeting Includes a revised and expanded section on the major epithelial routes of drug delivery currently under investigation Describes the most recent, emerging, and innovative technologies of drug delivery Provides real-life examples of the clinical translation of drug delivery technologies through the use of case studies Discusses the pertinent regulatory hurdles and safety issues of drug delivery and targeting systems—crucial considerations in order to achieve licensing approval for these new technologies

Stochastic Processes with Applications to Finance, Second Edition Oct 24 2019 Financial engineering has been proven to be a useful tool for risk management, but using the theory in practice requires a thorough understanding of the risks and ethical standards involved. Stochastic Processes with Applications to Finance, Second Edition presents the mathematical theory of financial engineering using only basic mathematical tools that are easy to understand even for those with little mathematical expertise. This second edition covers several important developments in the financial industry. New to the Second Edition A chapter on the change of measures and pricing of insurance products Many examples of the change of measure technique, including its use in asset pricing theory A section on the use of copulas, especially in the pricing of CDOs Two chapters that offer more coverage of interest rate derivatives and credit derivatives Exploring the merge of actuarial science and financial engineering, this edition examines how the pricing of insurance products, such as equity-linked annuities, requires knowledge of asset pricing theory since the equity index can be traded in the market. The book looks at the development of many probability transforms for pricing insurance risks, including the Esscher transform. It also describes how the copula model is used to model the joint distribution of underlying assets. By presenting significant results in discrete processes and showing how to transfer the results to their continuous counterparts, this text imparts an accessible, practical understanding of the subject. It helps readers not only grasp the theory of financial engineering, but also implement the theory in business.

Credit Scoring and Its Applications, Second Edition Mar 09 2021 Credit Scoring and Its Applications is recognized as the bible of credit scoring. It contains a comprehensive review of the objectives, methods, and practical implementation of credit and behavioral scoring. The authors review principles of the statistical and operations research

methods used in building scorecards, as well as the advantages and disadvantages of each approach. The book contains a description of practical problems encountered in building, using, and monitoring scorecards and examines some of the country-specific issues in bankruptcy, equal opportunities, and privacy legislation. It contains a discussion of economic theories of consumers' use of credit, and readers will gain an understanding of what lending institutions seek to achieve by using credit scoring and the changes in their objectives. New to the second edition are lessons that can be learned for operations research model building from the global financial crisis, current applications of scoring, discussions on the Basel Accords and their requirements for scoring, new methods for scorecard building and new expanded sections on ways of measuring scorecard performance. And survival analysis for credit scoring. Other unique features include methods of monitoring scorecards and deciding when to update them, as well as different applications of scoring, including direct marketing, profit scoring, tax inspection, prisoner release, and payment of fines.

Electrical Contacts May 31 2020 Covering the choice, attachment, and testing of contact materials, Electrical Contacts introduces a thorough discussion on making electric contact and contact interface conduction, presents a general outline of, and measurement techniques for, important corrosion mechanisms, discusses the results of contact wear when plug-in connections are made and broken, investigates the effect of thin noble metal plating on electronic connections, relates crucial considerations for making high-and low-power contact joints, details arcing effects on contacts including contact erosion, welding, and contamination, and contains nearly 2800 references, tables, equations, drawings, and photographs.

Effect Sizes for Research Jul 21 2019 The goal of this book is to inform a broad readership about a variety of measures and estimators of effect sizes for research, their proper applications and interpretations, and their limitations. Its focus is on analyzing post-research results. The book provides an evenhanded account of controversial issues in the field, such as the role of significance testing. Consistent with the trend toward greater use of robust statistical methods, the book pays much attention to the statistical assumptions of the methods and to robust measures of effect size. Effect Sizes for Research discusses different effect sizes for a variety of kinds of variables, designs, circumstances, and purposes. It covers standardized differences between means, correlational measures, strength of association, and confidence intervals. The book clearly demonstrates how the choice of an appropriate measure might depend on such factors as whether variables are categorical, ordinal, or continuous; satisfying assumptions; the sampling method; and the source of variability in the population. It emphasizes a practical approach through: worked examples using real data; formulas and rationales for a variety of variables, designs, and purposes to help readers apply the material to their own data sets; software references for the more tedious calculations; and informative figures and tables, questions, and over 300 references. Intended as a resource for professionals, researchers, and advanced students in a variety of fields, this book is an excellent supplement for advanced courses in statistics in disciplines such as psychology, education, the social sciences, business, management, and medicine. A prerequisite of introductory statistics through factorial analysis of variance and chi-square is recommended.

Discrete Mathematics Jun 19 2019 This book is intended for a one-semester course in discrete mathematics. Such a course is typically taken by mathematics, mathematics education, and computer science majors, usually in their sophomore year. Calculus is not a prerequisite to use this book. Part one focuses on how to write proofs, then moves on to topics in number theory, employing set theory in the process. Part two focuses on computations, combinatorics, graph theory, trees, and algorithms.

Semigroups of Linear Operators and Applications Jan 27 2020 Advanced graduate-level treatment of semigroup theory explores semigroups of linear operators and linear Cauchy problems. The text features challenging exercises and emphasizes motivation, heuristics, and further applications. 1985 edition.

Marine Microbiology Sep 03 2020 The third edition of this bestselling text has been rigorously updated to reflect major new discoveries and concepts since 2011, especially progress due to extensive application of high-throughput sequencing, single cell genomics and analysis of large datasets. Significant advances in understanding the diversity and evolution of bacteria, archaea, fungi, protists, and viruses are discussed and their importance in marine processes is explored in detail. Now in full colour throughout, all chapters have been significantly expanded, with many new diagrams, illustrations and boxes to aid students' interest and understanding. Novel pedagogy is designed to encourage students to explore current high-profile research topics. Examples include the impacts of rising CO_2 levels on microbial community structure and ocean processes, interactions of microbes with plastic pollution, symbiotic interactions, and emerging diseases of marine life. This is the only textbook addressing such a broad range of topics in the specific area of marine microbiology, now a core topic within broader Marine Science degrees. A Companion Website provides additional online resources for instructors and students, including a summary of key concepts and terminology for each chapter, links to further resources, and flashcards to aid self-assessment.

Shape Selective Catalysis in Industrial Applications, Second Edition, Jan 07 2021 "Examines all known industrial processes using shape selective zeolites. Second Edition contains new, up-to-date information on the specific features that make zeolites shape selective, the role shape selective catalysis can play providing environmentally clean

fuels, 12-membered oxygen ring systems, mesopore systems, and more."

Semigroups of Linear Operators and Applications Aug 02 2020 Advanced graduate-level treatment of semigroup theory explores semigroups of linear operators and linear Cauchy problems. The text features challenging exercises and emphasizes motivation, heuristics, and further applications. 1985 edition.

Graph Theory and Its Applications, Second Edition May 11 2021 Already an international bestseller, with the release of this greatly enhanced second edition, Graph Theory and Its Applications is now an even better choice as a textbook for a variety of courses -- a textbook that will continue to serve your students as a reference for years to come. The superior explanations, broad coverage, and abundance of illustrations and exercises that positioned this as the premier graph theory text remain, but are now augmented by a broad range of improvements. Nearly 200 pages have been added for this edition, including nine new sections and hundreds of new exercises, mostly non-routine. What else is new? New chapters on measurement and analytic graph theory Supplementary exercises in each chapter - ideal for reinforcing, reviewing, and testing. Solutions and hints, often illustrated with figures, to selected exercises - nearly 50 pages worth Reorganization and extensive revisions in more than half of the existing chapters for smoother flow of the exposition Foreshadowing - the first three chapters now preview a number of concepts, mostly via the exercises, to pique the interest of reader Gross and Yellen take a comprehensive approach to graph theory that integrates careful exposition of classical developments with emerging methods, models, and practical needs. Their unparalleled treatment provides a text ideal for a two-semester course and a variety of one-semester classes, from an introductory one-semester course to courses slanted toward classical graph theory, operations research, data structures and algorithms, or algebra and topology.

Angular for Enterprise-Ready Web Applications Aug 14 2021 Revised and updated second edition of the bestselling hands-on guide to building enterprise-ready web apps using an evergreen Angular platform Key FeaturesUpdated examples, projects, and a new overview of tools – including NgRX and Ivy, automated testing, and Firebase authenticationNew chapter summarizing history of web frameworks and Angular version updatesAll-new RESTful API implementation leveraging the MEAN stack with MongoDB, Express.js, Angular and Node.jsBook Description This second edition of Angular for Enterprise-Ready Web Applications is updated with in-depth coverage of the evergreen Angular platform. You'll start by mastering Angular programming fundamentals. Using the Kanban method and GitHub tools, you'll build great-looking apps with Angular Material and also leverage reactive programming patterns with RxJS, discover the flux pattern with NgRx, become familiar with automated testing, utilize continuous integration using CircleCI, and deploy your app to the cloud using Vercel Now and GCloud. You will then learn how to design and develop line-of-business apps using router-first architecture with observable data anchors, demonstrated through oft-used recipes like master/detail views, and data tables with pagination and forms. Next, you'll discover robust authentication and authorization design demonstrated via integration with Firebase, API documentation using Swagger, and API implementation using the MEAN stack. Finally, you will learn about DevOps using Docker, build a highly available cloud infrastructure on AWS, capture user behavior with Google Analytics, and perform load testing. By the end of the book, you'll be familiar with the entire gamut of modern web development and full-stack architecture, learning patterns and practices to be successful as an individual developer on the web or as a team in the enterprise. What you will learnAdopt a minimalist, value-first approach to delivering web appsMaster Angular development fundamentals, RxJS, CLI tools, GitHub, and DockerDiscover the flux pattern and NgRxImplement a RESTful APIs using Node.js, Express.js, and MongoDBCreate secure and efficient web apps for any cloud provider or your own serversDeploy your app on highly available cloud infrastructure using DevOps, CircleCI, and AWSWho this book is for This book is for developers who want to confidently deliver high-quality and production-grade Angular apps from design to deployment. Developers that have prior experience in writing a RESTful APIs will also benefit, as well as developers who will gain greater awareness of how they fit into the larger picture of delivering a web application. Prior experience with RESTful APIs is desired.

Thermodynamics: Principles And Applications (Second Edition) Oct 04 2020 Thermodynamics is considered the core engineering course in many engineering disciplines. Since the laws of thermodynamics are expressed in abstract terms, it is the one of the most challenging courses encountered by students during their undergraduate education.This eminent compendium provides a firm grasp of the abstract concepts, and shows how to apply these concepts to solve practical problems with numerous clear examples. Answers to all problems are provided. Four additional chapters are illuminated to show students how to deal with the thermodynamic problems involving nonideal pure substances as well as multicomponent mixtures. The concepts are highlighted with utmost clarity in simple language. Mathcad worksheets are provided in problems dealing with the cubic equations of state.This readable reference text is useful to researchers, academics, professionals, undergraduate and graduate students in chemical engineering, mechanical engineering and energy studies.

Wireless Positioning Technologies and Applications, Second Edition Jun 12 2021 This updated second edition of the Artech House book Wireless Positioning

Technologies and Applications presents comprehensive coverage of wireless positioning principles and technologies for engineers involved in using or developing wireless location applications. This book explains the basics of GPS and demonstrates the applications of fundamental distance measuring principles. This edition includes updated and expanded chapters on satellite navigation, OFDM (Orthogonal Frequency Division Multiplex), TDOA location facilities in 3GPP LTE specifications, carrier phase measurements and DGPS, wireless sensor networks, MIMO positions, inertial navigation, and data fusion. Moreover, complete coverage of cellular network infrastructure for location, including 4G LTE, and up to-date Bluetooth location in short-range wireless networks is presented as well as modernization programs used for GPS accuracy and reliability. This book helps readers assess available positioning methods for new applications, locate applicable sources for a given technology, and simply difficult engineering and mathematical concepts.

Basic Statistics and Pharmaceutical Statistical Applications, Second Edition Apr 10 2021 The first edition of Basic Statistics and Pharmaceutical Statistical Applications successfully provided a practical, easy-to-read, basic statistics book. This second edition not only updates the previous edition, but expands coverage in the area of biostatistics and how it relates to real-world professional practice. Taking you on a roller coaster ride through the world of statistics, Dr. De Muth clearly details the methodology necessary to summarize data and make informed decisions about observed outcomes. What's new or different in the Second Edition? New chapters cover: Measures of association primarily with nominal and ordinal data and and more than 15 tests Survival statistics including actuarial analysis and an introduction to multiple regression with survival data using proportional hazards regression An introduction to the topic of evidence-based practice with discussions of sensitivity and specificity, predictive values, and likelihood ratios Odds ratios and relative risk ratios that provide valuable information for dealing with probability, odds, and risk New sections address Power and sample size determination for two-sample Z-tests of proportions Clinical equivalence and noninferiority studies, process capability, and tolerance limits Methods for assessing repeatability and reproducibility Expanded information includes: Chi square, repeated measures designs, Latin Square designs, nine multiple comparison tests, and outlier testing Inverse prediction with linear regression, handling of multiple data points at different levels of independent variable, and assessment of parallelism of slopes for two samples Additional types of bivariate correlations and various assessments for independence and randomness More nonparametric tests including new information on post hoc comparisons for a significant Kruskal-Wallis test, the Kolmogorov-Smirnov goodness-of-fit test, and the Anderson-Darling test, as well as runs and range tests Eight new tables useful for the interpretation of some of the new inferential statistics De Muth provides concrete examples that enable you to effectively manage information in your day-to-day problem solving and reporting of findings. By avoiding heavy-duty mathematics and theory, even the mathematically challenged can benefit and increase their confidence in using statistics procedures.

Complex Variables and Applications Nov 17 2021 This text is part of the International Series in Pure and Applied Mathematics. It is designed for junior, senior, and first-year graduate students in mathematics and engineering. This edition preserves the basic content and style of earlier editions and includes many new and relevant applications which are introduced early in the text. Topics include complex numbers, analytic functions, elementary functions, and integrals.