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Research Methods, Statistics, and Applications Feb 16 2022 Research Methods, Statistics, and Applications consistently integrates methods and statistics, and engages students by including brand new examples and practical applications.

[Rapid Prototyping](#) Feb 04 2021 Latest Edition: 3D Printing and Additive Manufacturing: Principles and Applications (with Companion Media Pack). Fourth edition of Rapid Prototyping. Rapid Prototyping (RP) has revolutionized the landscape of how prototypes and products are made and small batch manufacturing carried out. This book gives a comprehensive coverage of RP and rapid tooling processes, data formats and applications. A CD-ROM, included in the book, presents RP and its principles in an interactive way to augment the learning experience. Special features: Most comprehensive coverage of more than 30 RP Systems Understanding of RP through applications In-depth revelation of the basic principles behind major RP techniques Discussion of important issues such as STL file problems of RP parts Interactive CD-ROM to demonstrate the major RP techniques RP company background information and contact addresses

Behavior Therapy Apr 30 2023 The authors' goal was to create an engaging, readable survey of theory and practice, broad enough to cover the field sufficiently but without going to encyclopedic extremes. As a result, the book includes major sections on theories, principles, and techniques as well as applications to specific problems and disorders. The theories chapters cover traditional behavior modification, classical conditioning, and operant learning, as well as contemporary social learning theory and cognitive-behavioral therapy. Included also are chapters on research methods in behavior therapy and on behavioral assessment. The applications chapters, Part III, cover a wide range of problems and disorders in residential and community settings. In each of these chapters, the authors pay special attention to assessment and treatment of the disorders. For professionals working in the field of behavior therapy.

The Psychology of Personality Mar 25 2020 This engaging, comprehensive introduction to the field of personality psychology integrates discussion of personality theories, research, assessment techniques, and applications of specific theories. The Psychology of Personality introduces students to many important figures in the field and covers both classic and contemporary issues and research. The second edition reflects significant changes in the field but retains many of the special features that made it a textbook from which instructors found easy to teach and students found easy to learn. Bernardo Carducci's passion for the study of personality is evident on every page.

Colour Design Jul 09 2021 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

System Reliability Theory Nov 25 2022 A comprehensive introduction to reliability analysis. The first section provides a thorough but elementary prologue to reliability theory. The latter half comprises more advanced analytical tools including Markov processes, renewal theory, life data analysis, accelerated life testing and Bayesian reliability analysis. Features numerous worked examples. Each chapter concludes with a selection of problems plus additional material on applications.

Ion Exchange Membranes Dec 22 2019 Fundamental study and industrial application of ion exchange membranes started over half a century ago. Through ongoing research and development, ion exchange membrane technology is now applied to many fields and contributes to the improvement of our standard of living. Ion Exchange Membranes, 2nd edition states the ion exchange membrane technology from the standpoint of fundamentals and applications. It discusses not only various phenomena exhibited by membranes but also their applications in many fields with economical evaluations. This second edition is updated and revised, featuring ten expanded chapters. New to this edition is a computer simulation program of ion-exchange membrane electro dialysis for water desalination that provides a guideline for designing, manufacturing and operating a practical-scale electro dialyzer. Meant to replace experiments, this program will be an important asset to those with time and monetary budgets. New edition features ten revised and expanded chapters, providing the latest developments in ion exchange membrane technology Computer simulation program, accessible through a companion website, provides a guideline for designing, manufacturing and operating practical-scale electro dialyzers Attractive visual presentation, including many figures and diagrams

Handbook of Cross-cultural Psychology: Theory and method Nov 13 2021 Part of a set containing the contributions of authors from a variety of nations, cultures, traditions and perspectives, this volume offers an up-to-date assessment of theoretical developments and methodological issues in the rapidly-evolving area of cross-cultural psychology.

Topics in Bifurcation Theory and Applications Mar 05 2021 This textbook presents the most efficient analytical techniques in the local bifurcation theory of vector fields. It is centered on the theory of normal forms and its applications, including interaction with symmetries. The first part of the book reviews the center manifold reduction and introduces normal forms (with complete proofs). Basic bifurcations are studied together with bifurcations in the presence of symmetries. Special attention is given to examples with reversible vector fields, including the physical example given by the water waves. In this second edition, many problems with detailed solutions are added at the end of the first part (some systems being in infinite dimensions). The second part deals with the Couette-Taylor hydrodynamical stability problem, between concentric rotating cylinders. The spatial structure of various steady or unsteady solutions results directly from the analysis of the reduced system on a center manifold. In this part we also study bifurcations (simple here) from group orbits of solutions in an elementary way (avoiding heavy algebra).

The third part analyzes bifurcations from time periodic solutions of autonomous vector fields. A normal form theory is developed, covering all cases, and emphasizing a partial Floquet reduction theory, which is applicable in infinite dimensions. Studies of period doubling as well as Arnold's resonance tongues are included in this part.

Complex Variables and Applications Sep 23 2022 Focusing on routines as basic as going to school and cooking and cleaning, *Voices of Civil War America: Contemporary Accounts of Daily Life* explores the lives of ordinary Americans during one of the nation's most tumultuous eras. The book emphasizes the ordinary rather than the momentous to help students achieve a true understanding of mid-19th-century American culture and society. Recognizing that there is no better way to learn history than to allow those who lived it to speak for themselves, the authors utilize primary documents to depict various aspects of daily life, including politics, the military, economics, domestic life, material culture, religion, intellectual life, and leisure. Each of the documents is augmented by an introduction and aftermath, as well as lists of topics to consider and questions to ask.

Thermodynamics: Principles And Applications (Second Edition) Aug 10 2021 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.

Psycholinguistics Jun 27 2020 *Psycholinguistics: Introduction and Applications, Second Edition* is the first textbook in psycholinguistics created for working language professionals and students in speech-language pathology and language education, as well as for students in psychology and linguistics. It provides a clear, lively introduction to research and ideas about how human brains process language in speaking, understanding, and reading. Within a unifying framework of the constant interplay of bottom-up (sensory) and top-down (knowledge-based) processing across all language uses and modalities, it is an integrated, self-contained, fully updated account of psycholinguistics and its clinical and pedagogical applications. In this second edition, author Lise Menn is joined by leading brain researcher and aphasiologist, Nina Dronkers. The significantly revised brain chapter contains current findings on brain structure and function, including the roles of newly delineated fiber tracts and language areas outside Broca's and Wernicke's areas. Fully-explained examples are taken from Spanish and other languages as well as English. Five core chapters (language description; brain structure and function; pragmatic and semantic stages of speech production; syntactic, morphological, phonological, and phonetic stages of speech production; and experimental psycholinguistics) form the foundation for chapters, presenting classic and recent research on aphasia, first language development, reading, and second language learning. A final chapter demonstrates how linguistics and psycholinguistics can and should inform classroom and clinical practice in test design and error analysis, while also explaining the care that must be taken in translating theoretically based ideas into such real-world applications. Concepts from linguistics, neurology, and experimental psychology are kept vivid by illustrations of their uses in the real world, the clinic, and language teaching. Technical terms are clearly explained in context and also in a large reference glossary. Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book.

Microencapsulation Jan 15 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

Drug Delivery Mar 29 2023 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

Vision Algorithms: Theory and Practice Aug 22 2022 This book constitutes the thoroughly refereed post-workshop proceedings of the International Workshop on Vision Algorithms held in Corfu, Greece in September 1999 in conjunction with ICCV'99. The 15 revised full papers presented were carefully reviewed and selected from 65 submissions; each paper is complemented by a brief transcription of the discussion that followed its presentation. Also included are two invited contributions and two expert reviews as well as a panel discussion. The volume spans the whole range of algorithms for geometric vision. The authors and volume editors succeeded in providing added value beyond a mere collection of papers and made the volume a state-of-the-art survey of their field.

Reverse Osmosis Jul 21 2022 This new edition of the bestselling *Reverse Osmosis* is the most comprehensive and up-to-date coverage of the process of reverse osmosis in industrial applications, a technology that is becoming increasingly more important as more and more companies choose to “go green.” This book covers all of the processes and equipment necessary to design, operate, and troubleshoot reverse osmosis systems, from the fundamental principles of reverse osmosis technology and membranes to the much more advanced engineering principles necessary for designing a reverse osmosis system. The second edition is an enhanced version of the original bestseller. Each chapter has been reviewed and updated. Revised features include more detail on various pretreatment techniques such as greensand and pyrolusite pretreatment media. The design projection chapter has been edited to include up-to-date information on current projection programs. A new section on microbial fouling control featuring chlorine and alternative techniques is included to address the needs of most RO systems. Also, a discussion on forward osmosis is added as an alternative and/or companion technology to reverse osmosis for water treatment. The second edition includes all updated, basic, in-depth information for design, operation, and optimization of reverse osmosis systems. Earlier chapters cover the basic principles, the history of reverse osmosis, basic terms and definitions, and essential equipment. The book then goes into pretreatment processes and system design, then, finally, operations and troubleshooting. The author includes a section on the impact of other membrane technologies and even includes a “Frequently Asked Questions” chapter.

Handbook of Essential Oils Apr 18 2022 Egyptian hieroglyphs, Chinese scrolls, and Ayurvedic literature record physicians administering aromatic oils to their patients. Today society looks to science to document health choices and the oils do not disappoint. The growing body of evidence of their efficacy for more than just scenting a room underscores the need for production standards, quality control parameters for raw materials and finished products, and well-defined Good Manufacturing Practices. Edited by two renowned experts, the *Handbook of Essential Oils* covers all aspects of essential oils from chemistry, pharmacology, and biological activity, to production and trade, to uses and regulation. 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. New information on essential oils may lead to an increased understanding of their

multidimensional uses and better, more ecologically friendly production methods. Reflecting the immense developments in scientific knowledge available on essential oils, this book brings multidisciplinary coverage of essential oils into one all-inclusive resource.

Graph Theory and Its Applications, Second Edition Dec 14 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.

Network and Discrete Location Aug 30 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 practice-oriented 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.

Probability Oct 12 2021 Praise for the First Edition "This is a well-written and impressively presented introduction to probability and statistics. The text throughout is highly readable, and the author makes liberal use of graphs and diagrams to clarify the theory." - *The Statistician* Thoroughly updated, *Probability: An Introduction with Statistical Applications, Second Edition* features a comprehensive exploration of statistical data analysis as an application of probability. The new edition provides an introduction to statistics with accessible coverage of reliability, acceptance sampling, confidence intervals, hypothesis testing, and simple linear regression. Encouraging readers to develop a deeper intuitive understanding of probability, the author presents illustrative geometrical presentations and arguments without the need for rigorous mathematical proofs. The Second Edition features interesting and practical examples from a variety of engineering and scientific fields, as well as: Over 880 problems at varying degrees of difficulty allowing readers to take on more challenging problems as their skill levels increase Chapter-by-chapter projects that aid in the visualization of probability distributions New coverage of statistical quality control and quality production An appendix dedicated to the use of Mathematica® and a companion website containing the referenced data sets Featuring a practical and real-world approach, this textbook is ideal for a first course in probability for students majoring in statistics, engineering, business, psychology, operations research, and mathematics. *Probability: An Introduction with Statistical Applications, Second Edition* is also an excellent reference for researchers and professionals in

any discipline who need to make decisions based on data as well as readers interested in learning how to accomplish effective decision making from data.

Wearable Sensors Oct 24 2022 *Wearable Sensors: Fundamentals, Implementation and Applications* has been written by a collection of experts in their field, who each provide you with an understanding of how to design and work with wearable sensors. Together these insights provide the first single source of information on wearable sensors that would be a fantastic addition to the library of any engineers working in this field. *Wearable Sensors* covers a wide variety of topics associated with development and applications of wearable sensors. It also provides an overview and a coherent summary of many aspects of wearable sensor technology. Both professionals in industries and academic researchers need this package of information in order to learn the overview and each specific technology at the same time. This book includes the most current knowledge on the advancement of light-weight hardware, energy harvesting, signal processing, and wireless communications and networks. Practical problems with smart fabrics, biomonitoring and health informatics are all addressed, plus end user centric design, ethical and safety issues. The new edition is completely reviewed by key figures in the field, who offer authoritative and comprehensive information on the various topics. A new feature for the second edition is the incorporation of key background information on topics to allow the less advanced user access to the field and to make the title more of an auto-didactic book for undergraduates. Provides a full revision of the first edition, providing a comprehensive and up-to-date resource of all currently used wearable devices in an accessible and structured manner Helps engineers manufacture wearable devices with information on current technologies, with a focus on end user needs and recycling requirements This book provides a fully updated overview of the many aspects of wearable sensor technology in one single volume, enabling engineers and researchers to fully comprehend the field and to identify opportunities

Membrane Technology and Applications Sep 30 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 6 Ultrafiltration 237 7 Microfiltration 275 8 Gas Separation 301 9 Pervaporation 355 10 Ion Exchange Membrane Processes - Electrodialysis 393 11 Carrier Facilitated Transport 425 12 Medical Applications of Membranes 465 13 Other Membrane Processes 491 Appendix 523 Index 535.

Biobased Surfactants Jun 20 2022 *Biobased Surfactants: Synthesis, Properties, and Applications, Second Edition*, covers biosurfactant synthesis and applications and demonstrates how to reduce manufacturing and purification costs, impurities, and by-products. Fully updated, this book covers surfactants in biomedical applications, detergents, personal care, food, pharmaceuticals, cosmetics, and nanotechnology. It reflects on the latest developments in biobased surfactant science and provides case scenarios to guide readers in efficient and effective biobased surfactant application, along with strategies for research into new applications. This book is written from a biorefinery-based perspective by an international team of experts and acts as a key text for researchers and practitioners involved in the synthesis, utilization, and development of biobased surfactants. Describes new and emerging biobased surfactants and their synthesis and development Showcases an interdisciplinary approach to the topic, featuring applications to chemistry, biotechnology, biomedicine, and other areas Presents the entire lifecycle of biobased surfactants in detail

Occupational Ergonomics Nov 01 2020 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.

Group Work Feb 28 2023 The overriding theme of *Group Work: Processes and Applications* is a focus on the specialized group work that counselors perform from a systemic perspective in a multicultural context. This text briefly covers traditional theoretical approaches, focusing more on the techniques and applications of the approaches, but the core of the text involves the systemic approach to group work: preparing group leaders to facilitate the systemic group process, from planning the group through the four stages of group work: forming and orienting, transition, working, and termination. The content is aligned with 2016 CACREP standards. Numerous other techniques, covered, are linked with specific theoretical orientations.

Porous Silicon for Biomedical Applications Feb 22 2020 *Porous Silicon for Biomedical Applications, Second Edition*, provides an updated guide to the diverse range of biomedical applications of porous silicon, from biosensing and imaging to tissue engineering and cancer therapy. Across biomedical disciplines, there is an ongoing search for biomaterials that are biocompatible, modifiable, structurally sound, and versatile. Porous silicon possesses a range of properties that make it ideal for a variety of biomedical applications, such as controllable geometry, tunable nanoporous structure, large pore volume/high specific surface area, and versatile surface chemistry. This book provides a fully updated and detailed overview of the range of biomedical applications for porous silicon. Part One offers the reader a helpful insight into the fundamentals and beneficial properties of porous silicon, including thermal properties and stabilization, photochemical and nonthermal chemical modification, protein modification, and biocompatibility. The book then builds on the systematic detailing of each biomedical application using porous silicon, from bioimaging and sensing to drug delivery and tissue engineering. This new edition also includes new chapters on in-vivo assessment of porous silicon, photodynamic and photothermal therapy, micro- and nanoneedles, Raman imaging, cancer immunotherapy, and more. With its acclaimed editor and international team of expert contributors, *Porous Silicon for Biomedical Applications, Second Edition*, is a technical resource and indispensable guide for all those involved in the research, development, and application of porous silicon and other biomaterials, while providing a comprehensive introduction for students and academics interested in this field. Reviews the fundamental aspects of porous silicon, including the fabrication and unique properties of this useful material. Discusses a broad selection of biomedical applications, offering a detailed insight into the benefits of porous silicon in both research and clinical settings. Includes fully updated content from the previous edition, as well as brand new chapters, covering topics such as porous silicon micro- and nanoneedles, and cancer immunotherapy.

Smart Polymers and Their Applications Jul 29 2020 *Smart Polymers and Their Applications, Second Edition* presents an up-to-date resource of information on the synthesis and properties of different types of smart polymers, including temperature, pH, electro, magnetic and photo-responsive polymers, amongst others. It is an ideal introduction to this field, as well as a review of the latest research in this area. Shape memory polymers, smart polymer hydrogels, and self-healing polymer systems are also explored. In addition, a very strong focus on applications of smart polymers is included for tissue engineering, smart polymer nanocarriers for drug delivery, and the use of smart polymers in medical devices. Additionally, the book covers the use of smart polymers for textile applications, packaging, energy storage, optical data storage, environmental protection, and more. This book is an ideal, technical resource for chemists, chemical engineers, materials scientists, mechanical engineers and other professionals in a range of industries. Includes a significant number of new chapters on smart polymer materials development, as well as new applications development in energy storage, sensors and devices, and environmental protection Provides a multidisciplinary approach to the development of responsive polymers, approaching the subject by the different types of polymer (e.g. temperature-responsive) and its range of applications

Food Waste Recovery Apr 25 2020 *Food Waste Recovery: Processing Technologies, Industrial Techniques, and Applications, Second Edition* provides information on safe and economical strategies for the recapture

of value compounds from food wastes while also exploring their re-utilization in fortifying foods and as ingredients in commercial products. Sections discuss the exploration of management options, different sources, the Universal Recovery Strategy, conventional and emerging technologies, and commercialization issues that target applications of recovered compounds in the food and cosmetics industries. This book is a valuable resource for food scientists, technologists, engineers, chemists, product developers, researchers, academics and professionals working in the food industry. Covers food waste management within the food industry by developing recovery strategies Provides coverage of processing technologies and industrial techniques for the recovery of valuable compounds from food processing by-products Explores the different applications of compounds recovered from food processing using three approaches: targeting by-products, targeting ingredients, and targeting bioactive applications

Credit Derivatives and Synthetic Structures Sep 11 2021 Fully revised and updated Here is the only comprehensive source that explains the various instruments in the market, their economic value, how to document trades, and more. This new edition includes enhanced treatment of U.S. and worldwide regulatory issues, and new product structures. "If you want to know more about credit derivatives--and these days an increasing number of people do--then you should read this book." --Merton H. Miller, winner, Nobel Prize in Economics, 1990 "Tavakoli brings extraordinary insight and clarity to this fascinating financial evolution . . ."--Carl V. Schuman, Manager, Credit Derivatives, West LB New York Janet M. Tavakoli (Chicago, IL) is Vice President of the Chicago branch of Bank of America, where she directs the company's overall marketing of global derivatives and manages its CreditMetrics initiative.

Nanostructures and Nanomaterials May 07 2021 This is the 2nd edition of the original "Nanostructures and Nanomaterials" written by Guozhong Cao and published by Imperial College Press in 2004. This important book focuses not only on the synthesis and fabrication of nanostructures and nanomaterials, but also includes properties and applications of nanostructures and nanomaterials, particularly inorganic nanomaterials. It provides balanced and comprehensive coverage of the fundamentals and processing techniques with regard to synthesis, characterization, properties, and applications of nanostructures and nanomaterials. Both chemical processing and lithographic techniques are presented in a systematic and coherent manner for the synthesis and fabrication of 0-D, 1-D, and 2-D nanostructures, as well as special nanomaterials such as carbon nanotubes and ordered mesoporous oxides. The book will serve as a general introduction to nanomaterials and nanotechnology for teaching and self-study purposes.

Ad Hoc and Sensor Networks Dec 02 2020 This book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field. It emphasizes that there is a major interdependence among various layers of the network protocol stack. Contrary to wired or even one-hop cellular networks, the lack of a fixed infrastructure, the inherent mobility, the wireless channel, and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer. All existing textbooks on the subject often focus on a specific aspect of the technology, and fail to provide critical insights on cross-layer interdependencies. To fully understand these intriguing networks, one need to grasp specific solutions individually, and also the many interdependencies and cross-layer interactions.

Data Mining With Decision Trees: Theory And Applications (2nd Edition) Jan 03 2021 Decision trees have become one of the most powerful and popular approaches in knowledge discovery and data mining; it is the science of exploring large and complex bodies of data in order to discover useful patterns. Decision tree learning continues to evolve over time. Existing methods are constantly being improved and new methods introduced. This 2nd Edition is dedicated entirely to the field of decision trees in data mining; to cover all aspects of this important technique, as well as improved or new methods and techniques developed after the publication of our first edition. In this new edition, all chapters have been revised and new topics brought in. New topics include Cost-Sensitive Active Learning, Learning with Uncertain and Imbalanced Data, Using Decision Trees beyond Classification Tasks, Privacy Preserving Decision Tree Learning, Lessons Learned from Comparative Studies, and Learning Decision Trees for Big Data. A walk-through guide to existing open-source data mining software is also included in this edition. This book invites readers to explore the many benefits in data mining that decision trees offer:

Risk Frameworks and Applications - 2nd Edition Jun 08 2021

Geometry and Its Applications May 19 2022 Meyer's *Geometry and Its Applications*, Second Edition, combines traditional geometry with current ideas to present a modern approach that is grounded in real-world applications. It balances the deductive approach with discovery learning, and introduces axiomatic, Euclidean geometry, non-Euclidean geometry, and transformational geometry. The text integrates applications and examples throughout and includes historical notes in many chapters. The Second Edition of *Geometry and Its Applications* is a significant text for any college or university that focuses on geometry's usefulness in other disciplines. It is especially appropriate for engineering and science majors, as well as future mathematics teachers. Realistic applications integrated throughout the text, including (but not limited to): Symmetries of artistic patterns Physics Robotics Computer vision Computer graphics Stability of architectural structures Molecular biology Medicine Pattern recognition Historical notes included in many chapters

Linear Algebra and Its Applications Dec 26 2022 Praise for the First Edition ". . . recommended for the teacher and researcher as well as for graduate students. In fact, [it] has a place on every mathematician's bookshelf." -American Mathematical Monthly *Linear Algebra and Its Applications*, Second Edition presents linear algebra as the theory and practice of linear spaces and linear maps with a unique focus on the analytical aspects as well as the numerous applications of the subject. In addition to thorough coverage of linear equations, matrices, vector spaces, game theory, and numerical analysis, the Second Edition features student-friendly additions that enhance the book's accessibility, including expanded topical coverage in the early chapters, additional exercises, and solutions to selected problems. Beginning chapters are devoted to the abstract structure of finite-dimensional vector spaces, and subsequent chapters address convexity and the duality theorem as well as describe the basics of normed linear spaces and linear maps between normed spaces. Further updates and revisions have been included to reflect the most up-to-date coverage of the topic, including: The QR algorithm for finding the eigenvalues of a self-adjoint matrix The Householder algorithm for turning self-adjoint matrices into tridiagonal form The compactness of the unit ball as a criterion of finite-dimensionality of a normed linear space Additionally, eight new appendices have been added and cover topics such as: the Fast Fourier Transform; the spectral radius theorem; the Lorentz group; the compactness criterion for finite-dimensionality; the characterization of commentators; proof of Liapunov's stability criterion; the construction of the Jordan Canonical form of matrices; and Carl Pearcy's elegant proof of Halmos' conjecture about the numerical range of matrices. Clear, concise, and superbly organized, *Linear Algebra and Its Applications*, Second Edition serves as an excellent text for advanced undergraduate- and graduate-level courses in linear algebra. Its comprehensive treatment of the subject also makes it an ideal reference or self-study for industry professionals.

POLICE AUDITING: Standards and Applications (2nd Ed.) Apr 06 2021 Police auditing merits the attention of both practitioners and academicians for two primary reasons. First, police auditing meets the need of police administrators to know about the economy, efficiency, and effectiveness of their organization and operations. Second, it provides an important mechanism for the public and its elected officials to fulfill their oversight responsibilities. This book provides a comprehensive examination of theories, standards, procedures, applications, and evaluations of police audits to allow the reader to obtain a detailed understanding of different aspects and types of police audits and apply the principles of auditing and data collection to various police programs. The book is readable for different audiences as it provides a review of police auditing along with discussions of planned change and incorporates standards and procedures in police auditing into social scientific research process and methods. The book is aimed at three types of readers. First, it provides police executives and managers with a timely and necessary understanding of police auditing as they conduct budget reviews and organizational diagnoses. Second, it serves as a valuable source of information for auditors and researchers who are either charged with the responsibility to perform police audits directly or engaged in evaluating audited police programs. Third, students in criminal justice programs will benefit from this book in courses that address research methods and police accountability issues.

Water Activity in Foods Jan 27 2023 This second edition of *Water Activity in Foods* furnishes those working within food manufacturing, quality control, and safety with a newly revised guide to water activity and its role in the preservation and processing of food items. With clear, instructional prose and

illustrations, the book's international team of contributors break down the essential principles of water activity and water-food interactions, delineating water's crucial impact upon attributes such as flavor, appearance, texture, and shelf life. The updated and expanded second edition continues to offer an authoritative overview of the subject, while also broadening its scope to include six newly written chapters covering the latest developments in water activity research. Exploring topics ranging from deliquescence to crispness, these insightful new inclusions complement existing content that has been refreshed and reconfigured to support the food industry of today.

Emergency Incident Management Systems Mar 17 2022 A "street smart" look at incident management in all its permutations Incident Management Systems (IMS) provide the means by which to coordinate the efforts of individual agencies in order to stabilize an incident and protect life, property, and the environment. Born from the FireScope project of the late 1960s, which was developed in response to the major wildfires that regularly plagued Southern California, these systems have evolved with many similarities and certain fundamental differences. *Emergency Incident Management Systems: Fundamentals and Applications* contrasts the major forms of Incident Management/Incident Command Systems. The author illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. Without suggesting major changes in the systems, he bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional's daily needs. Timely features of the book include: * An "in the field" point of view * Coverage of incidents of mass destruction * Filled-out sample forms designed to aid professionals in completing reports In post-9/11 America, where incident management has become a national priority—one that must be easily understood and applicable across all emergency systems—this book provides a useful tool for helping today's emergency workers be more informed and more prepared than ever.

Standards of Value May 27 2020 Expert direction on interpretation and application of standards of value Written by Jay Fishman, Shannon Pratt, and William Morrison—three renowned valuation practitioners—*Standards of Value*, Second Edition discusses the interaction between valuation theory and its judicial and regulatory application. This insightful book addresses standards of value (SOV) as applied in four distinct contexts: estate and gift taxation; shareholder dissent and oppression; divorce; and financial reporting. Here, you will discover some of the intricacies of performing services in these venues. Features new case law in topics including personal good will and estate and gift tax, and updated to cover the new standards issued since the first edition Includes an updated compendium discussing the standards of value by state, new case law covering divorce, personal goodwill, and estate and gift tax, and coverage of newly issues financial standards Shows how the Standard of Value sets the appraisal process in motion and includes the combination of a review of court cases with the valuator's perspective Addresses the codification of GAAP and updates SOV in individual states Get *Standards of Value*, Second Edition and discover the underlying intricacies involved in determining "value."

Microfluidic Devices for Biomedical Applications Jan 23 2020 Microfluidics or lab-on-a-chip (LOC) is an important technology suitable for numerous applications from drug delivery to tissue engineering. *Microfluidic devices for biomedical applications* discusses the fundamentals of microfluidics and explores in detail a wide range of medical applications. The first part of the book reviews the fundamentals of microfluidic technologies for biomedical applications with chapters focussing on the materials and methods for microfabrication, microfluidic actuation mechanisms and digital microfluidic technologies. Chapters in part two examine applications in drug discovery and controlled-delivery including micro needles. Part three considers applications of microfluidic devices in cellular analysis and manipulation, tissue engineering and their role in developing tissue scaffolds and stem cell engineering. The final part of the book covers the applications of microfluidic devices in diagnostic sensing, including genetic analysis, low-cost bioassays, viral detection, and radio chemical synthesis. *Microfluidic devices for biomedical applications* is an essential reference for medical device manufacturers, scientists and researchers concerned with microfluidics in the field of biomedical applications and life-science industries. Discusses the fundamentals of microfluidics or lab-on-a-chip (LOC) and explores in detail a wide range of medical applications Considers materials and methods for microfabrication, microfluidic actuation mechanisms and digital

microfluidic technologies Considers applications of microfluidic devices in cellular analysis and manipulation, tissue engineering and their role in developing tissue scaffolds and stem cell engineering

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