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Symbolic and Quantitative Approaches to Reasoning with Uncertainty Springer

Emphasizing its uses in cancer and cardiovascular and autoimmune diseases, Pharmaceutical Perspectives of Nucleic Acid-Based Therapy presents a comprehensive account of gene therapy, from development in the laboratory to clinical applications. Internationally acclaimed scientists discuss the potential use of lipids, peptides and polymers for the in

Dynamics of Comets and Asteroids and Their Role in Earth History Springer Science & Business Media

The refereed proceedings of the 7th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, ECSQARU 2003, held in Aalborg, Denmark in July 2003. The 47 revised full papers presented together with 2 invited survey articles were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on foundations of uncertainty concepts, Bayesian networks, algorithms for uncertainty inference, learning, decision graphs, belief functions, fuzzy sets, possibility theory, default reasoning, belief revision and inconsistency handling, logics, and tools.

Risk Analysis of Complex and Uncertain Systems CRC Press

This book, Perturbation Theories for the Thermodynamic Properties of Fluids and Solids, provides a comprehensive review of current perturbation theories—as well as integral equation theories and density functional theories—for the equilibrium thermodynamic and structural properties of classical systems. Emphasizing practical applications, the text avoids complex theoretical derivations as much as possible. It begins with discussions of the nature of intermolecular forces and simple potential models. The book also presents a summary of statistical mechanics concepts and formulae. In addition, it reviews simulation techniques, providing background for the performance analyses of theories executed throughout the text using simulation data. Chapters describe integral equation theories, theoretical approaches for hard-sphere fluid or solid systems, and perturbation theories for simple fluids and solids for monocomponent and multicomponent systems. They also cover density functional theories for inhomogeneous systems and perturbative and nonperturbative approaches to describe the structure and thermodynamics of hard-body molecular fluids. The final chapter examines several more challenging systems, such as fluids near the critical point, liquid metals, molten salts, colloids, and aqueous protein solutions. This book offers a thorough account of the available equilibrium theories for the thermodynamic and structural properties of fluids and solids, with special focus on perturbation theories, emphasizing their applications, strengths, and weaknesses. Appropriate for experienced researchers as well as postgraduate students, the text presents a wide-ranging yet detailed view and provides a useful guide to the application of the theories described.

Monte Carlo Techniques in Radiation Therapy Frontiers Media SA

This book provides an introduction to the computational and complex systems modeling of the global spreading of infectious diseases. The latest developments in the area of contagion processes modeling are discussed, and readers are exposed to real world examples of data-model integration impacting the decision-making process. Recent advances in computational science and the increasing availability of real-world data are making it possible to develop realistic scenarios and real-time forecasts of the global spreading of emerging health threats. The first part of the book guides the reader through sophisticated complex systems modeling techniques with a non-technical and visual approach, explaining and illustrating the construction of the modern framework used to project the spread of pandemics and epidemics. Models can be used to transform data to knowledge that is intuitively communicated by powerful infographics and for this reason, the second part of the book focuses on a set of charts that illustrate possible scenarios of future pandemics. The visual atlas contained allows the reader to identify commonalities and patterns in emerging health threats, as well as explore the wide range of models and data that can be used by policy makers to anticipate trends, evaluate risks and eventually manage future events. Charting the Next Pandemic puts the reader in the position to explore different pandemic scenarios and to understand the potential impact of available containment and prevention strategies. This book

emphasizes the importance of a global perspective in the assessment of emerging health threats and captures the possible evolution of the next pandemic, while at the same time providing the intelligence needed to fight it. The text will appeal to a wide range of audiences with diverse technical backgrounds.

Ballistics 2011 Cambridge Int Science Publishing

This reference is the first comprehensive how-to collection of Six Sigma tools, methodologies, and best practices. Leading implementer Lynne Hambleton covers the entire Six Sigma toolset, including more than 70 different tools – ranging from rigorous statistical and quantitative tools, to " softer " techniques. The toolset is organized in an easy-to-use, alphabetical encyclopedia and helps professionals quickly select the right tool, at the right time for every business challenge. Hambleton systematically discusses which questions each tool is designed to answer; how the tool compares with similar tools; when to use it; how to use it step-by-step; how to analyze and apply the output; and which other tool to use with it. To further illustrate and clarify tool usage, she presents hundreds of figures, along with never-before-published hints, tips, and real-world, " out-of-the-box " examples. Coverage includes · Real-world guidance to help practitioners raise the most important questions and determine the best resolution · Statistical techniques, including ANOVA, multi-vari charts, Monte Carlo simulations, normal probability plots, and regression analysis · Benchmarks, capability and cost/benefit analyses, Porter ' s Five Forces, scorecards, stakeholder analysis, and brainstorming techniques · CPM, CTQ, FMEA, HOQ, and GOSPA · GANTT, PERT chart, and other Six Sigma project management tools · 7QC: cause and effect diagrams, checklists, control charts, fishbone diagram, flowchart, histogram, Pareto chart, process maps, run chart, scatter diagram, and the stratification tool · 7M: AND, affinity diagrams, interrelationship diagrams, matrix diagrams, prioritization matrices, PDPC, and tree diagrams · Crystal Ball, Minitab, and Quality Companion 2 software to facilitate the use of statistical and analytical tools and more to help you become a more effective Six Sigma practitioner · This book is also available in a highly-searchable eBook format at www.prenhallprofessional.com/title/0136007376 and other online booksellers,. From start to finish, this bookdelivers fast, thorough and reliable answers – knowledge you ' ll rely on in every Six Sigma project, for years to come.

Dating Urban Classical Deposits: Approaches and Problems in Using Finds to Date Strata Taylor & Francis

This volume is a compilation of papers presented at the International Workshop on the Theory and Applications of the Cluster Variation and Path Probability Methods, held in the city of San Juan, Teotihuacan, Mexico, during June 18-22, 1995. The presentations at the workshop provided a state of the art review of the fundamental aspects of the CVM and PPM and their application to a wide range of problems in statistical mechanics and alloy theory. The volume begins with several articles dealing with the study of the kinetics of ordering in Ising sytems and alloys using the PPM and other classical techniques. These articles are followed by the contribution of Professor Masuo Suzuki on the Coherent Anomaly Method which has added a new dimension to mean field theory, and the CVM in particular, in the study of critical phenomena. The remaining of the volume is dedicated to fundamental aspects and specific applications of the CVM in a wide range of subjects ranging from bulk and surface studies to new areas of inquiry such as the problem of image reconstruction. Since the inception by Prof. Ryoichi Kikuchi of the CVM in 1950 and of the PPM in 1966, the latter after a gestation period of approximately six years, the tech niques have found wide acceptance in the physics and materials science communities. Both methods are properly regarded as seminal contributions to equilibrium and non equilibrium statistical mechanics.

Treasure Chest of Six Sigma Growth Methods, Tools, and Best Practices (Adobe Reader) Markov Chain Monte Carlo in Practice

An innovative, three-dimensional x-ray imaging technique that enhances projection radiography by adding depth resolution, Tomosynthesis Imaging explores tomosynthesis, an emerging limited-angle tomographic imaging technology that is being considered for use in a range of clinical applications, and is currently being used for breast cancer screening and diagnosis. While conventional mammography has been very successful in reducing breast cancer mortality, it is not perfect. A major limitation of mammography is that the recorded image represents the superposition of complex three-dimensional structures in the breast onto a two-dimensional plane, making detection and diagnosis of breast cancer challenging. Tomosynthesis produces quasi-three-dimensional images that can significantly enhance the visualization of important diagnostic features. This book highlights the flexibility of tomosynthesis systems for new clinical applications, and provides a detailed discussion of the tomosynthesis acquisition process and the impact of physical factors. It explores such topics as acquisition parameters, system components, modeling, image reconstruction algorithms, and system evaluation. Provides in-depth coverage of system design considerations, as well as image reconstruction strategies Describes the current state of clinical applications of tomosynthesis, including imaging of the breast and chest, as well as its use in radiotherapy Illustrates the merits of tomosynthesis imaging and its potential clinical applications in imaging of the breast and chest, as well as for radiation therapy Divided into five sections, this text delves into the history and development of tomosynthesis. It introduces tomosynthesis imaging, discusses imaging system design considerations, and reviews image reconstruction algorithms that have been developed for tomosynthesis. It also describes system evaluation methodologies, emphasizes current clinical applications, and examines the future direction for tomosynthesis.

Safety and Reliability: Methodology and Applications ASTM International

Markov Chain Monte Carlo in PracticeCRC Press

Pocket Prescriber Emergency Medicine Springer

Materials science has emerged as one of the central pillars of the modern physical sciences and engineering, and is now even beginning to claim a role in the biological sciences. A central tenet in the analysis of materials is the structure-property paradigm, which proposes a direct connection between the geometric structures within a material and its properties. The increasing power of high-speed computation has had a major impact on theoretical materials science and has permitted the systematic examination of this connection between structure and properties.

Crystals, Defects and Microstructures CRC Press

Decision diagram (DD) techniques are very popular

in the electronic design automation (EDA) of integrated circuits, and for good reason. They can accurately simulate logic design, can show where to make reductions in complexity, and can be easily modified to model different scenarios. Presenting DD techniques from an applied perspective, Decision Diagram Techniques for Micro- and Nanoelectronic Design Handbook provides a comprehensive, up-to-date collection of DD techniques. Experts with more than forty years of combined experience in both industrial and academic settings demonstrate how to apply the techniques to full advantage with more than 400 examples and illustrations. Beginning with the fundamental theory, data structures, and logic underlying DD techniques, they explore a breadth of topics from arithmetic and word-level representations to spectral techniques and event-driven analysis. The book also includes abundant references to more detailed information and additional applications. Decision Diagram Techniques for Micro- and Nanoelectronic Design Handbook collects the theory, methods, and practical knowledge necessary to design more advanced circuits and places it at your fingertips in a single, concise reference.

Fracture Mechanics Taylor & Francis

Drug prescribing errors are a common cause of hospital admission, and adverse reactions can have devastating effects, some even fatal. Pocket Prescriber Emergency Medicine is a concise, up-to-date prescribing guide containing all the "must have" information on a vast range of drugs that staff from junior doctors to emergency nurses, nurse prescribers, paramedics and other pre-hospital providers may encounter in the emergency setting. Key features: • A – Z list of over 500 of the most commonly prescribed drugs with each entry containing the key prescribing information • Safety issues, warnings, drug errors and adverse effects • Practical guidance on drug selection, plus protocols and resuscitation guidelines • Advice and reference information for complicated prescriptions • Concise management summaries for common medical and surgical emergencies • Essential advice for pain relief—from acute pain management to procedural sedation • Clinically useful reminders of key facts from basic pharmacology to acute poisoning syndromes Pocket Prescriber Emergency Medicine supplies all your information needs concerning commonly prescribed drugs at a glance, enabling on-the-spot decision-making to provide the highest standard of care whilst mitigating prescribing errors.

Value-Added Decision Making for Managers Pearson Education

Writing Fast Programs" provides the basic elements of code optimization and provides strategies for reducing bottlenecks in practical simulation and numerical modeling code. The target audience is scientists and engineers and students in these fields. One pre-publication reviewer called this a much-needed intermediate text to bridge the gap between existing introductory and more advance programming books aimed at scientists. "Writing Fast Programs" does not teach basic programming; some programming proficiency is assumed, along with familiarity with the basic programming terminology. Code examples are presented in C, but BASIC (as a convenient pseudo-language) examples are provided for those not familiar with C. In general, the strategies presented are not language specific and should therefore benefit a wide programming audience. For example, similar techniques have been discussed for Java.

Molecular Simulation Studies on Thermophysical Properties Springer Science & Business Media

Modern cancer treatment relies on Monte Carlo simulations to help radiotherapists and clinical physicists better understand and compute radiation dose from imaging devices as well as exploit four-dimensional imaging data. With Monte Carlo-based treatment planning tools now available from commercial vendors, a complete transition to Monte Carlo-base

Proceedings of DIMAT2000 Springer

Exploring food microbiology, its impact upon consumer safety, and the latest strategies for reducing its associated risks As our methods of food production advance, so too does the need for a fuller understanding of food microbiology and the critical ways in which it influences food safety. The Microbiology of Safe Food satisfies this need, exploring the processes and effects of food microbiology with a detailed, practical approach. Examining both food pathogens and spoilage organisms, microbiologist Stephen J. Forsythe covers topics ranging from hygiene regulations and product testing to microbiological criteria and sampling plans. This third edition has been thoroughly revised to cater to the food scientists and manufacturers of today, addressing such new areas as: Advances in genomic analysis techniques for key organisms, including E. coli, Salmonella, and L. monocytogenes Emerging information on high-throughput sequencing and genomic epidemiology based on genomic analysis of isolates Recent work on investigations into foodborne infection outbreaks, demonstrating the public health costs of unsafe food production Updates to the national and international surveillance systems, including social media Safe food for consumers is the ultimate goal of food microbiology. To that end, The Microbiology of Safe Food focuses on the real-world applications of the latest science, making it an essential companion for all those studying and working in food safety.

Tomosynthesis Imaging CRC Press

The intent of this book is to provide guidance on modeling techniques that can be used to quantify the reliability of a product or system. In this context, reliability modeling is the process of constructing a mathematical model that is used to estimate the reliability characteristics of a product. There are many ways in which this can be accomplished, depending on the product or system and the type of information that is available, or practical to obtain. This book reviews possible approaches, summarizes their advantages and disadvantages, and provides guidance on selecting a methodology based on the specific goals and constraints of the analyst. While this book will not discuss the use of specific published methodologies, in cases where examples are provided, tools and methodologies with which the author has personal experience in their development are used, such as life modeling, NPRD, MIL-HDBK-217 and the RIAC

217Plus--Introduction.

Theory and Applications of the Cluster Variation and Path Probability Methods CRC Press

Effective risk management and procurement are crucial to project success. Unfortunately, many managers have spent relatively little time mastering these essential elements of the project management discipline, and many books on the subject treat these issues only lightly, if at all. In Mastering Risk and Procurement in Project Management, expert project manager and seasoned professor Randal Wilson focuses specifically on these essential techniques. Wilson addresses every stage of the project where risk management and procurement are relevant, especially planning, monitoring, and control. Teaching through the use of relevant examples and case studies, Wilson explains why risk management and procurement are so important to project success, illuminates the deep linkages amongst these tasks, shows how to avoid common pitfalls, and introduces best practice methodologies for integrating them throughout your business processes. Drawing on his own extensive experience, he offers in-depth coverage of topics ranging from contracting and risk monitoring to project close-out, and gives readers practical knowledge of critical processes and tasks in project management.

Charting the Next Pandemic Springer Science & Business Media

Developed from the authors ' longstanding course on decision and risk analysis, Value-Added Decision Making for Managers explores the important interaction between decisions and management action and clarifies the barriers to rational decision making. The authors analyze strengths and weaknesses of the best alternatives, enabling decision makers to improve on these alternatives by adding value and reducing risk. The core of the text addresses decisions that involve selecting the best alternative from diverse choices. The decisions include buying a car, picking a supplier or home contractor, selecting a technology, picking a location for a manufacturing plant or sports stadium, hiring an employee or selecting among job offers, deciding on the size of a sales force, making a late design change, and sourcing to emerging markets. The book also covers more complex decisions arising in negotiations, strategy, and ethics that involve multiple dimensions simultaneously. Numerous activities interspersed throughout the text highlight real-world situations, helping readers see how the concepts presented can be used in their own work environment or personal life. Each chapter also includes discussion questions and references. Web Resource The book ' s website at http://ise.wayne.edu/research/decision.php offers tutorials of Logical Decisions software for multi-objective decisions and Precision Tree software for probabilistic decisions. Directions for downloading student versions of the DecisionTools Suite and Logical Decisions software can be found in the appendices. Password-protected PowerPoint presentations for each chapter and solutions to all of the numeric examples are available for instructors.

Pharmaceutical Perspectives of Nucleic Acid-Based Therapy Springer

The last decade of this century has seen a renewed interest in the dynamics and physics of the small bodies of the Solar System, Asteroids, Comets and Meteors. New observational evidences such as the discovery of the Edgeworth-Kuiper belt, refined numerical tools such as the symplectic integrators, analytical tools such as semi-numerical perturbation algorithms and in general a better understanding of the dynamics of Hamiltonian systems, all these factors have converged to make possible and worthwhile the study, over very long time spans, of these "minor" objects. Also the public, the media and even some political assell}blies have become aware that these "minor" objects of our planetary environnement could become deadly weapons. Apparently they did have a role in Earth history and a role more ominous than "predicting" defeat (or victory, why not?) to batches of credulous rulers. Remembering what may have happened to the dinosaurs but keeping all the discretion necessary to avoid creating irrational scares, it may not be unwise or irrelevant to improve our knowledge of the physics and dynamics of these objects and to study in particular their interactions with our planet.

Defects in Nanocrystals John Wiley & Sons

High-energy charged particles represent a cutting-edge technique in radiation oncology. Protons and carbon ions are used in several centers all over the world for the treatment of different solid tumors. Typical indications are ocular malignancies, tumors of the base of the skull, hepatocellular carcinomas and various sarcomas. The physical characteristics of the charged particles (Bragg peak) allow sparing of much more normal tissues than it is possible using conventional X-rays, and for this reason all pediatric tumors are considered eligible for protontherapy. Ions heavier than protons also display special radiobiological characteristics, which make them effective against radioresistant and hypoxic tumors. On the other hand, protons and ions with high charge (Z) and energy (HZE particles) represent a major risk for human space exploration. The main late effect of radiation exposure is cancer induction, and at the moment the dose limits for astronauts are based on cancer mortality risk. The Mars Science Laboratory (MSL) measured the dose on the route to Mars and on the planet ' s surface, suggesting that a human exploration missions will exceed the radiation risk limits. Notwithstanding many studies on carcinogenesis induced by protons and heavy ions, the risk uncertainty remains very high. In this research topic we aim at gathering the experiences and opinions of scientists dealing with high-energy charged particles either for cancer treatment or for space radiation protection. Clinical results with protons and heavy ions, as well as research in medical physics and pre-clinical radiobiology are reported. In addition, ground-based and spaceflight studies on the effects of space radiation are included in this book. Particularly relevant for space studies are the clinical results on normal tissue complications and second cancers. The eBook nicely demonstrates that particle therapy in oncology and protection of astronauts from space radiation share many common topics, and can learn from each other.

Routledge Handbook of Ecological Economics Cambridge University Press

Defects in Nanocrystals: Structural and Physico-Chemical Aspects discusses the nature of semiconductor systems and the effect of the size and shape on their thermodynamic and optoelectronic properties at the mesoscopic and nanoscopic levels. The nanostructures considered in this book are individual nanometric crystallites, nanocrystalline films, and nanowires of which the thermodynamic, structural, and optical properties are discussed in detail. The work: Outlines the influence of growth processes on their morphology and structure Describes the benefits of optical spectroscopies in the understanding of the role and

nature of defects in nanostructured semiconductors Considers the limits of nanothermodynamics Details the critical role of interfaces in nanostructural behavior Covers the importance of embedding media in the physico-chemical properties of nanostructured semiconductors Explains the negligible role of core point defects vs. surface and interface defects Written for researchers, engineers, and those working in the physical and physicochemical sciences, this work comprehensively details the chemical, structural, and optical properties of semiconductor nanostructures for the development of more powerful and efficient devices.