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HEATH EVELYN

Probability and Statistics for Engineering and the Sciences + Enhanced Webassign Access Springer

This book constitutes the refereed proceedings of the 7th International Workshop on Rough Sets, Fuzzy Sets, Data Mining, and Granular-Soft Computing, RSFDGrC'99, held in Yamaguchi, Japan, in November 1999. The 45 revised regular papers and 15 revised short papers presented together with four invited contributions were carefully reviewed and selected from 89 submissions. The book is divided into sections on rough computing: foundations and applications, rough set theory and applications, fuzzy set theory and applications, nonclassical logic and approximate reasoning, information granulation and granular computing, data mining and knowledge discovery, machine learning, and intelligent agents and systems.

Arakelov Geometry over Adelic Curves John Wiley & Sons

This book provides comprehensive coverage of Lithium (Li) metal anodes for rechargeable batteries. Li is an ideal anode material for rechargeable batteries due to its extremely high theoretical specific capacity (3860 mAh g⁻¹), low density (0.59 g cm⁻³), and the lowest negative electrochemical potential (-3.040 V vs. standard hydrogen electrodes). Unfortunately, uncontrollable dendritic Li growth and limited Coulombic efficiency during Li deposition/stripping inherent in these batteries have prevented their practical applications over the past 40 years. With the emergence of post Li-ion

batteries, safe and efficient operation of Li metal anodes has become an enabling technology which may determine the fate of several promising candidates for the next generation energy storage systems, including rechargeable Li-air batteries, Li-S batteries, and Li metal batteries which utilize intercalation compounds as cathodes. In this work, various factors that affect the morphology and Coulombic efficiency of Li anodes are analyzed. The authors also present the technologies utilized to characterize the morphology of Li deposition and the results obtained by modeling of Li dendrite growth. Finally, recent developments, especially the new approaches that enable safe and efficient operation of Li metal anodes at high current densities are reviewed. The urgent need and perspectives in this field are also discussed. The fundamental understanding and approaches presented in this work will be critical for the application of Li metal anodes. The general principles and approaches can also be used in other metal electrodes and general electrochemical deposition of metal films.

Explosive Effects and Applications Springer

This volume is devoted to atherosclerosis, hypertension, and diabetes, three of the most important disease conditions in the world today. Nutritional intervention, cholesterol lowering agents, lipid themselves, particularly oxidized LDL, protein modification by ADP-ribose, bone marrow study, endothelial cell dysfunction, angiotensin, and the role of infection and inflammation are all discussed in the context of atherosclerotic cardiovascular disease. The hypertension section focuses on factors that may be responsible for high blood pressure, such as genetic predisposition, vascular hyperplasia and remodeling, insulin resistance, neurological aspects such as hypothalamic peptides. Also discussed are the

possible contributions of the cellular function of the endothelium, nutrition, kidney dysfunction, leptin, and the brain. Novel routes of drug delivery for treatment of hypertension is also a focus. As for diabetes, the risk factors and mechanisms responsible for diabetic vascular and cardiac dysfunction are discussed. Lipid profile changes and fibrinolysis in diabetic patients is detailed, along with adipogenesis, diabetic cardiomyopathy, energy metabolism in the diabetic heart, vanadate as an alternative to insulin, insulin resistance mechanisms, and neurotransmitters as targets for the prevention of cardiovascular disease and diabetes. These manuscripts were invited from scientists who presented state of the art lectures at the XVII World Congress of the International Society for Heart Research held in Winnipeg in July 2001.

[Keyboard](#) Springer Nature

A ONE-STOP GUIDE FOR THE THEORIES, APPLICATIONS, AND STATISTICAL METHODOLOGIES OF MARKET RISK Understanding and investigating the impacts of market risk on the financial landscape is crucial in preventing crises. Written by a hedge fund specialist, the Handbook of Market Risk is the comprehensive guide to the subject of market risk. Featuring a format that is accessible and convenient, the handbook employs numerous examples to underscore the application of the material in a real-world setting. The book starts by introducing the various methods to measure market risk while continuing to emphasize stress testing, liquidity, and interest rate implications. Covering topics intrinsic to understanding and applying market risk, the handbook features: An introduction to financial markets The historical perspective from market events and diverse mathematics to the value-at-risk Return and volatility estimates Diversification, portfolio risk, and efficient frontier The Capital Asset Pricing Model and the Arbitrage Pricing Theory The use of a fundamental multi-factors model Financial derivatives instruments Fixed income and interest rate risk Liquidity risk Alternative investments Stress testing and back testing Banks and Basel II/III The Handbook of Market Risk is a must-have resource for financial engineers, quantitative analysts, regulators, risk managers in investment banks, and large-scale consultancy groups advising banks on internal systems. The handbook is also an excellent text for academics teaching postgraduate courses on financial methodology.

[Mathematical Methods for Curves and Surfaces](#) Springer

This book includes papers presented at the Second International Conference on Electronic Engineering and Renewable Energy (ICEERE 2020), which focus on the application of artificial intelligence techniques, emerging technology and the Internet of things in electrical and renewable energy systems, including hybrid systems, micro-grids, networking, smart health applications, smart grid, mechatronics and electric vehicles. It particularly focuses on new renewable energy technologies for agricultural and rural areas to promote the development of the Euro-Mediterranean region. Given its scope, the book is of interest to graduate students, researchers and practicing engineers working in the fields of electronic engineering and renewable energy.

[Optimal Filtering](#) Hal Leonard Publishing Corporation

Graduate-level text extends studies of signal processing, particularly regarding communication systems and digital filtering theory. Topics include filtering, linear systems, and estimation; discrete-time Kalman filter; time-invariant filters; more. 1979 edition.

[Operations Research in Progress](#) Springer Science & Business Media

Sampling consists of selection, acquisition, and quantification of a part of the population. While selection and acquisition apply to physical sampling units of the population, quantification pertains only to the variable of interest, which is a particular characteristic of the sampling units. A sampling procedure is expected to provide a sample that is representative with respect to some specified criteria. Composite sampling, under idealized conditions, incurs no loss of information for estimating the population means. But an important limitation to the method has been the loss of information on individual sample values, such as, the extremely large value. In many of the situations where individual sample values are of interest or concern, composite sampling methods can be suitably modified to retrieve the information on individual sample values that may be lost due to compositing. This book presents statistical solutions to issues that arise in the context of applications of composite sampling.

[Mathematical Methods for Signal and Image Analysis and Representation](#) Birkhäuser

This is a broad-based text on the fundamentals of explosive behavior and the application of explosives in civil engineering, industrial processes, aerospace applications, and military uses.

Atherosclerosis, Hypertension and Diabetes Courier Corporation

This IBM® Redpaper™ publication reviews the architecture and operations of the IBM DS8000® Global Mirror function. The document looks at different aspects of the solution in terms of performance, infrastructure requirements, data integrity, business continuity, and impact on production. Hints and tips are provided on how to best configure the overall Global Mirror environment, in terms of connectivity, storage configuration, and specific parameters tuning. The guidelines that are provided are in general related to performance, which ultimately ensures a better recovery point objective (RPO). Therefore, we encourage you to follow those guidelines.

[Sensation and Measurement](#) IBM Redbooks

Supercritical fluids are neither gas nor liquid, but can be compressed gradually from low to high density and they are therefore interesting and important as tunable solvents and reaction media in the chemical process industry. By adjusting the density the properties of these fluids can be customised and manipulated for a given process - physical or chemical transformation. Separation and processing using supercritical solvents such as CO₂ are currently on-line commercially in the food, essential oils and polymer industries. Many agencies and industries are considering the use of supercritical water for waste remediation. Supercritical fluid chromatography represents another, major analytical application. Significant advances have recently been made in materials processing, ranging from particle formation to the creation of porous materials. The chapters in this book provide tutorial accounts of topical areas centred around: (1) phase equilibria, thermodynamics and equations of state; (2) critical behaviour, crossover effects; (3) transport and interfacial properties; (4) molecular modelling, computer simulation; (5) reactions, spectroscopy; (6) phase separation kinetics; (7) extractions; (8) applications to polymers, pharmaceuticals, natural materials and chromatography; (9) process scale-up.

[Mordell-Weil Lattices](#) Springer Science & Business Media

This book lays out the theory of Mordell-Weil lattices, a very powerful and influential tool at the crossroads of algebraic geometry and number theory, which offers many fruitful connections to other areas of mathematics. The book presents all the ingredients entering into the theory of Mordell-Weil

lattices in detail, notably, relevant portions of lattice theory, elliptic curves, and algebraic surfaces. After defining Mordell-Weil lattices, the authors provide several applications in depth. They start with the classification of rational elliptic surfaces. Then a useful connection with Galois representations is discussed. By developing the notion of excellent families, the authors are able to design many Galois representations with given Galois groups such as the Weyl groups of E₆, E₇ and E₈. They also explain a connection to the classical topic of the 27 lines on a cubic surface. Two chapters deal with elliptic K3 surfaces, a pulsating area of recent research activity which highlights many central properties of Mordell-Weil lattices. Finally, the book turns to the rank problem—one of the key motivations for the introduction of Mordell-Weil lattices. The authors present the state of the art of the rank problem for elliptic curves both over Q and over C(t) and work out applications to the sphere packing problem. Throughout, the book includes many instructive examples illustrating the theory.

[Steel Designers' Manual Fifth Edition: The Steel Construction Institute](#) Springer

A comprehensive product directory of the synthesizer, samples, home keyboard, workstation and digital piano. It presents the top 100 instruments, the designers, sales figures, scandals, setbacks and triumphs, with reviews, specifications and a price guide.

Smart Card. Research and Applications Springer Nature

The classic, bestselling reference on architecture now revised and expanded! An essential one-volume reference of architectural topics using Francis D.K. Ching's signature presentation. It is the only dictionary that provides concise, accurate definitions illustrated with finely detailed, hand-rendered drawings. From Arch to Wood, every concept, technology, material and detail important to architects and designers are presented in Ching's unique style. Combining text and drawing, each term is given a minimum double-page spread on large format trim size, so that the term can be comprehensively explored, graphically showing relations between concepts and sub-terms A comprehensive index permits the reader to locate any important word in the text. This long-awaited revision brings the latest concepts and technology of 21st century architecture, design and construction to this classic reference work It is sure to be by the side of and used by any serious architect or designer, students of architecture, interior designers, and those in construction.

[Popular Photography](#) Wiley-Blackwell

Mathematical Methods for Signal and Image Analysis and Representation presents the mathematical methodology for generic image analysis tasks. In the context of this book an image may be any m-dimensional empirical signal living on an n-dimensional smooth manifold (typically, but not necessarily, a subset of spacetime). The existing literature on image methodology is rather scattered and often limited to either a deterministic or a statistical point of view. In contrast, this book brings together these seemingly different points of view in order to stress their conceptual relations and formal analogies. Furthermore, it does not focus on specific applications, although some are detailed for the sake of illustration, but on the methodological frameworks on which such applications are built, making it an ideal companion for those seeking a rigorous methodological basis for specific algorithms as well as for those interested in the fundamental methodology per se. Covering many topics at the forefront of current research, including anisotropic diffusion filtering of tensor fields, this book will be of particular interest to graduate and postgraduate students and researchers in the fields of computer vision, medical imaging and visual perception.

Charges Et Les Spécifications Des Avions Militaires Springer Science & Business Media

This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice. The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place in Riga, Latvia on October 17 - 20, 2018. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering, data security and financial issues, as well as practical problems in technical systems, such as transportation and telecommunications, and in engineering education.

[Polyoxometalate Molecular Science](#) Springer Science & Business Media

[Infotext]((Kurzttext))These are the proceedings of the 7th International Conference on Hyperbolic Problems, held in Zürich in February 1998. The speakers and contributors have been rigorously selected and present the state of the art in this field. The articles, both theoretical and numerical, encompass a wide range of applications, such as nonlinear waves in solids, various computational fluid dynamics from small-scale combustion to relativistic astrophysical problems, multiphase phenomena and geometrical optics. ((Volltext))These proceedings contain, in two volumes, approximately one hundred papers presented at the conference on hyperbolic problems, which has focused to a large extent on the laws of nonlinear hyperbolic conservation. Two-fifths of the papers are devoted to mathematical aspects such as global existence, uniqueness, asymptotic behavior such as large time stability, stability and instabilities of waves and structures, various limits of the solution, the Riemann problem and so on. Roughly the same number of articles are devoted to numerical analysis, for example stability and convergence of numerical schemes, as well as schemes with special desired properties such as shock capturing, interface fitting and high-order approximations to multidimensional systems. The results in these contributions, both theoretical and numerical, encompass a wide range of applications such as nonlinear waves in solids, various computational fluid dynamics from small-scale combustion to relativistic astrophysical problems, multiphase phenomena and geometrical optics.

Hyperbolic Problems: Theory, Numerics, Applications Hodder Education

Proceedings of the Joint Meeting of the Austrian and Swiss Operations Research Societies, Vienna, September 22-24, 1980

[Popular Photography](#) Mondo Estremo

An exploration of the intersection of particle physics, astrophysics, and cosmology known as astroparticle physics. Extreme electromagnetic conditions present in pulsars and other stars allow for investigations of the role of quantum processes in the dynamics of astrophysical objects and in the early Universe. Based in part on the authors' own work, this book systematically describes several methods of calculation of the effects of strong electromagnetic fields in quantum processes using analytical solutions of the Dirac equation and Feynmann diagrams at both the loop and tree levels. The consideration is emphasized at the two limiting cases: the case of a very strong magnetic field, and the case of a crossed field. The presentation will appeal to graduate students of theoretical physics with prior understanding of Quantum Field Theory (QFT) and the Standard Model of

Electroweak Interactions, as well as specialists in QFT wishing to know more about the problems of quantum phenomena in external electromagnetic fields.

[DS8000 Global Mirror Best Practices](#) Springer

This book constitutes the refereed proceedings of the Second International Web Intelligence Conference, AWIC 2004, held in Cancun, Mexico, in May 2004. The 22 revised full papers presented were carefully reviewed and selected from 52 submissions. The papers are organized in topical sections on

collaborative filtering and recommendation, supporting Web communities, multi-agent systems, soft computing methods, text processing and semantic Web, Web information retrieval, and categorization and ranking.

[Advances in Web Intelligence](#) Springer Science & Business Media

This classic manual for structural steelwork design was first published in 1956. Since then, it has sold many thousands of copies worldwide. The fifth edition is the first major revision for 20 years and is the first edition to be fully based on limit state design, now used as the primary design method, and on the UK code of practice, BS 5950. It provides, in a single volume, all you need to know about structural steel design.