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**Theory and Application of Infinite Series** *Optimization—Theory and Applications* **Statistics of Extremes** **Compressed Sensing** Decision Making Under Uncertainty Industrial Organization **Ecological Statistics** Robust Control Econometrics **Grey Systems** Functional Analysis **Adaptive Filters** **Theory and Application of Quantum Molecular Dynamics** Electrical Theory and Application for HVACR **A Model of Human Occupation Cognition: Theories and Applications** *Theory and Applications of Models of Computation* **Price Theory and Applications** **Angular Momentum in Quantum Physics** *Handbook of Critical Information Systems Research* **The Jacobi-Perron Algorithm** **Configuration Management, Second Edition** **Linear Algebra** **Linear Circuits, Systems, and Signal Processing** **Computational Methods for Plasticity** Anisotropic Elasticity *Theory and Applications of Automatic Controls* **Trends of Data Science and Applications** **Advances in Automotive Production Technology - Theory and Application** *Theory and Application of Statistical Energy Analysis* Uncertain Volatility Models *International Conference on Theory and Application in Nonlinear Dynamics (ICAND 2012)* **Leadership Roles and Management Functions in Nursing** **13th International Conference on Theory and**

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**Application of Fuzzy Systems and Soft Computing – ICAFS-2018 Historical Organization Studies Modal Testing Portfolio Management Configuration Management Handbook of Electronic Meters Modern Spectral Estimation**

Robust Control Mar 27 2022 Comprehensive and up to date coverage of robust control theory and its application • Presented in a well-planned and logical way • Written by a respected leading author, with extensive experience in robust control • Accompanying website provides solutions manual and other supplementary material

*Modern Spectral Estimation* Jun 25 2019  
**Computational Methods for Plasticity** Oct 10 2020 The subject of computational plasticity encapsulates the numerical methods used for the finite element simulation of the behaviour of a wide range of engineering materials considered to be plastic - i.e. those that undergo a permanent change of shape in response to an

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applied force. Computational Methods for Plasticity: Theory and Applications describes the theory of the associated numerical methods for the simulation of a wide range of plastic engineering materials; from the simplest infinitesimal plasticity theory to more complex damage mechanics and finite strain crystal plasticity models. It is split into three parts - basic concepts, small strains and large strains. Beginning with elementary theory and progressing to advanced, complex theory and computer implementation, it is suitable for use at both introductory and advanced levels. The book: Offers a self-contained text that allows the reader to learn computational plasticity theory and its implementation from one volume. Includes many numerical examples that

illustrate the application of the methodologies described. Provides introductory material on related disciplines and procedures such as tensor analysis, continuum mechanics and finite elements for non-linear solid mechanics. Is accompanied by purpose-developed finite element software that illustrates many of the techniques discussed in the text, downloadable from the book's companion website. This comprehensive text will appeal to postgraduate and graduate students of civil, mechanical, aerospace and materials engineering as well as applied mathematics and courses with computational mechanics components. It will also be of interest to research engineers, scientists and software developers working in the field of computational solid mechanics.

*Econometrics* Feb 23 2022 Focusing on the use of the tools available for performing quantitative economic research, this work avoids maths, and instead shows students how to make best and appropriate use of EViews on real economic

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data, as well as enabling them to interpret and present the economic results of the statistical evaluation. Economists are regularly confronted with results of quantitative economics research. *Econometrics: Theory and Applications with EViews* provides a broad introduction to quantitative economic methods, for example how models arise, their underlying assumptions and how estimates of parameters or other economic quantities are computed. The author combines econometric theory with practice by showing and exercising its use with the software package EViews. The emphasis is on understanding how to select the right method of analysis for a given situation, and how to actually apply the theoretical methodology correctly. Written for any undergraduate or postgraduate course in Econometrics.

### **Theory and Application of Infinite Series**

Nov 03 2022 This unusually clear and interesting classic offers a thorough and reliable treatment of an important branch of higher

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analysis. The work covers real numbers and sequences, foundations of the theory of infinite series, and development of the theory (series of valuable terms, Euler's summation formula, asymptotic expansions, and other topics).

Exercises throughout. Ideal for self-study.

Electrical Theory and Application for HVACR

Sep 20 2021

### **Leadership Roles and Management**

**Functions in Nursing** Jan 31 2020 Awarded second place in the 2017 AJN Book of the Year Awards in Nursing Management and Leadership.

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Help your students develop the skills they'll need on the job with today's #1

bestseller. Taking an active learning approach, this Ninth Edition emphasizes the symbiotic elements of leadership and management. All professional nurses today face limited resources

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and emerging technologies, and this book prepares students through up-to-date and comprehensive coverage of leadership and management concepts, ranging from managing conflict and working collaboratively to organizing patient care and staffing. Benefitting students who often have limited opportunities to observe high-performing middle- and top-level managers in practice, a variety of real-world scenarios are featured throughout and provide opportunities for hands-on learning. New to the Ninth Edition: More than 280 learning exercises (26 NEW to this edition) help students see how concepts can be applied in a wide range of practice situations and health-care settings. The variety of learning modes in the exercises gives students opportunities to apply theory, develop strong critical-thinking skills, and internalize learning. Updated Content Crosswalks--based on the latest AACN, AONE, QSEN, and, new to this edition, ANA standards and competencies--show how content in each chapter draws from or

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contributes to content identified as essential for baccalaureate and graduate education, for practice as a nurse administrator, and for safety and quality in clinical practice. Updated content on new trends/developments in health care includes the Affordable Care Act, meaningful EHR use, projected nursing shortages, and newer care delivery models focused on ambulatory care and outpatient settings. Expanded coverage of workplace topics includes whistleblowing, liability of supervision of unlicensed workers, bullying, incivility, mobbing, workplace violence, and the authority-power gap. Improved leveling in the test bank allows for better assessment of student progress.

*Configuration Management* Aug 27 2019 The book provides a comprehensive approach to configuration management from a variety of product development perspectives, including embedded and IT. It provides authoritative advice on how to extend products for a variety of markets due to configuration options. The book

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also describes the importance of configuration management to other parts of the organization. It supplies an overview of configuration management and its process elements to provide readers with a contextual understanding of the theory, practice, and application of CM. The book illustrates the interplay of configuration and data management with all enterprise resources during each phase of a product lifecycle.

*Modal Testing* Oct 29 2019 All the steps involved in planning, executing, interpreting and applying the results from a modal test are described in straightforward terms. This edition has brought the previous book up to date by including all the new and improved techniques that have emerged during the 15 years since the first edition was written, especially those of signal processing and modal analysis. New topics are introduced, notable amongst them are the application of modal testing to rotating machinery and the use of scanning laser

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**Adaptive Filters** Nov 22 2021 This second edition of Adaptive Filters: Theory and Applications has been updated throughout to reflect the latest developments in this field; notably an increased coverage given to the practical applications of the theory to illustrate the much broader range of adaptive filters applications developed in recent years. The book offers an easy to understand approach to the theory and application of adaptive filters by clearly illustrating how the theory explained in the early chapters of the book is modified for the various applications discussed in detail in later chapters. This integrated approach makes the book a valuable resource for graduate students; and the inclusion of more advanced applications including antenna arrays and wireless communications makes it a suitable technical reference for engineers, practitioners and researchers. Key features:

- Offers a thorough treatment of the theory of

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adaptive signal processing; incorporating new material on transform domain, frequency domain, subband adaptive filters, acoustic echocancellation and active noise control. • Provides an in-depth study of applications which now includes extensive coverage of OFDM, MIMO and smart antennas. • Contains exercises and computer simulation problems at the end of each chapter. • Includes a new companion website hosting MATLAB® simulation programs which complement the theoretical analyses, enabling the reader to gain an in-depth understanding of the behaviours and properties of the various adaptive algorithms.

**Angular Momentum in Quantum Physics** Apr 15 2021 This 1985 text develops the theory of angular momentum from the viewpoint of a fundamental symmetry in nature and shows how this concept relates to applied areas of research in modern quantum physics.

*Linear Algebra* Dec 12 2020 Ward Cheney and David Kincaid have developed Linear Algebra:

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Theory and Applications, Second Edition, a multi-faceted introductory textbook, which was motivated by their desire for a single text that meets the various requirements for differing courses within linear algebra. For theoretically-oriented students, the text guides them as they devise proofs and deal with abstractions by focusing on a comprehensive blend between theory and applications. For application-oriented science and engineering students, it contains numerous exercises that help them focus on understanding and learning not only vector spaces, matrices, and linear transformations, but uses of software tools available for use in applied linear algebra. Using a flexible design, it is an ideal textbook for instructors who wish to make their own choice regarding what material to emphasize, and to accentuate those choices with homework assignments from a large variety of exercises, both in the text and online.

**Grey Systems** Jan 25 2022 Due to inherent limitations in human sensing organs, most data

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collected for various purposes contain uncertainties. Even at the rare occasions when accurate data are available, the truthful predictions derived on the data tend to create chaotic consequences. So, to effectively process and make sense out of available data, we need methods to deal with uncertainty inherently existing inside the data. The intent of this monograph is to explore the fundamental theory, methods, and techniques of practical application of grey systems theory, initiated by Professor Deng Julong in 1982. This volume presents most of the recent advances of the theory accomplished by scholars from around the world. From studying this book, the reader will not only acquire an overall knowledge of this new theory but also be able to follow the most current research activities. All examples presented are based on practical applications of the theory when urgent real-life problems had to be addressed. Last but not the least, this book concludes with three appendices. The first one

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compares grey systems theory and interval analysis while revealing the fact that interval analysis is a part of grey mathematics. The second appendix presents an array of different approaches of studying uncertainties. And, the last appendix shows how uncertainties appear using general systems approach.

**The Jacobi-Perron Algorithm** Feb 11 2021  
Decision Making Under Uncertainty Jun 29 2022

An introduction to decision making under uncertainty from a computational perspective, covering both theory and applications ranging from speech recognition to airborne collision avoidance. Many important problems involve decision making under uncertainty—that is, choosing actions based on often imperfect observations, with unknown outcomes.

Designers of automated decision support systems must take into account the various sources of uncertainty while balancing the multiple objectives of the system. This book provides an introduction to the challenges of

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decision making under uncertainty from a computational perspective. It presents both the theory behind decision making models and algorithms and a collection of example applications that range from speech recognition to aircraft collision avoidance. Focusing on two methods for designing decision agents, planning and reinforcement learning, the book covers probabilistic models, introducing Bayesian networks as a graphical model that captures probabilistic relationships between variables; utility theory as a framework for understanding optimal decision making under uncertainty; Markov decision processes as a method for modeling sequential problems; model uncertainty; state uncertainty; and cooperative decision making involving multiple interacting agents. A series of applications shows how the theoretical concepts can be applied to systems for attribute-based person search, speech applications, collision avoidance, and unmanned aircraft persistent surveillance. Decision Making

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Under Uncertainty unifies research from different communities using consistent notation, and is accessible to students and researchers across engineering disciplines who have some prior exposure to probability theory and calculus. It can be used as a text for advanced undergraduate and graduate students in fields including computer science, aerospace and electrical engineering, and management science. It will also be a valuable professional reference for researchers in a variety of disciplines.

**Handbook of Electronic Meters** Jul 27 2019  
*Theory and Applications of Models of Computation* Jun 17 2021 This book constitutes the refereed proceedings of the 10th International Conference on Theory and Applications of Models of Computation, TAMC 2013, held in Hong Kong, China, in May 2013. The 31 revised full papers presented were carefully reviewed and selected from 70 submissions. Bringing together a wide range of researchers with interests in computational

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theory and applications, the papers address the three main themes of the conference which were computability, complexity, and algorithms and present current research in these fields with aspects to theoretical computer science, algorithmic mathematics, and applications to the physical sciences.

### **Theory and Application of Quantum**

**Molecular Dynamics** Oct 22 2021 This book gives an updated and detailed presentation of modern quantum-mechanical treatments and practical computational methods for dynamical processes of small molecular systems. The main emphasis is on the recent development of successful theories and computational methods for the reactive scattering process. Specific applications are given in detail for a number of benchmark chemical reaction systems in the gas phase and gas surface. Differing from traditional physics books focusing on abstract collision theory for elastic collisions, the book has been written in a fashion in which the development of

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general reactive or rearrangement scattering theory is accompanied by practical applications for realistic reaction systems.

**Portfolio Management** Sep 28 2019 This text for courses in Portfolio Management presents the modern theories of portfolio management and clearly explains and illustrates their practical applications. This textbook avoids elaborate discussions of narrowly-based investment techniques

Industrial Organization May 29 2022 This upper-level undergraduate text provides an introduction to industrial organization theory along with applications and nontechnical analyses of the legal system and antitrust laws. Using the modern approach but without emphasizing the mathematical generality inherent in many of the arguments, it bridges the gap between existing nontheoretical texts written for undergraduates and highly technical texts written for graduate students. The book can also be used in masters' programs, and

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advanced graduate students will find it a convenient guide to modern industrial organization. The treatment is rigorous and comprehensive. A wide range of models of all widely used market structures, strategic marketing devices, compatibility and standards, advertising, R&D, as well as more traditional topics are considered in versions much simplified from the originals but that retain the basic intuition. Shy first defines the issues that industrial organization addresses and then develops the tools needed to attack the basic questions. He begins with perfect competition and then considers imperfectly competitive market structures including a wide variety of monopolies, and all forms of quantity and price competitions. The last chapter provides a helpful feature for students by showing how various theories may be related to particular industries but not to others. Topics include: the basics needed to understand modern industrial organization; market structure (monopoly,

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homogenous products, differentiated products); mergers and entry; research and development; economics of compatibility and standards; advertising; quality and durability; pricing tactics; marketing tactics; management, compensation, and information; price dispersion and search theory; and special industries.

### **Configuration Management, Second Edition**

Jan 13 2021 The book provides a comprehensive approach to configuration management from a variety of product development perspectives, including embedded and IT. It provides authoritative advice on how to extend products for a variety of markets due to configuration options. The book also describes the importance of configuration management to other parts of the organization. It supplies an overview of configuration management and its process elements to provide readers with a contextual understanding of the theory, practice, and application of CM. The book illustrates the interplay of configuration and data management

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with all enterprise resources during each phase of a product lifecycle.

*Theory and Applications of Automatic Controls*  
Aug 08 2020 Theory And Applications Of Automatic Controls Is Written In A Simple Style As A Text-Book, Based On The Author'S Experience Of Teaching The Subject To Undergraduate And Postgraduate Students In Mechanical Engineering. It Would Be Useful To The Students Of Various Disciplines Including Mechanical, Electrical, Chemical, Aerospace, Production, Textile Engineering Etc. And Also For Practicing Engineers From Industry. Salient Features \* Chapter 10 Has Been Expanded To Cover Topics On Design Of Digital Controllers, Process Delays And Digital Controller For Dead Beat Response. \* A Detailed Treatment Is Given For Ladder Diagrams, Hydraulic And Pneumatic Actuation Systems. \* Programmable Logic Controller And Its Ladder Diagram And Programming Have Been Covered. \* A Number Of Examples And Exercise Problems Have Been

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Added. \* Omissions And Corrections Have Been Taken Care Of.

### **Advances in Automotive Production**

#### **Technology - Theory and Application** Jun 05

2020 This volume of the series ARENA2036 compiles the outcomes of the first Stuttgart Conference on Automotive Production (SCAP2020). It contains peer-reviewed contributions from a theoretical as well as practical vantage point and is topically structured according to the following four sections: It discusses (I) Novel Approaches for Efficient Production and Assembly Planning, (II) Smart Production Systems and Data Services, (III) Advances in Manufacturing Processes and Materials, and (IV) New Concepts for Autonomous, Collaborative Intralogistics. Given the restrictive circumstances of 2020, the conference was held as a fully digital event divided into two parts. It opened with a pre-week, allowing everyone to peruse the scientific contributions at their own pace, followed by a

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two-day live event that enabled experts from the sciences and the industry to engage in various discussions. The conference has proven itself as an insightful forum that allowed for an expertly exchange regarding the pivotal Advances in Automotive Production and Technology.

**Compressed Sensing** Jul 31 2022 A detailed presentation of compressed sensing by leading researchers, covering the most significant theoretical and application-oriented advances.

#### **A Model of Human Occupation** Aug 20 2021

Presenting the new edition of the text that delivers the most widely-used and developed conceptual model in occupational therapy. Beautifully redesigned and fully revised, the Third Edition of A Model of Human Occupation (MOHO) delivers the latest in human occupation research and application to practice. New to this edition: a reader-friendly format with second color and additional illustrations and anecdotes; more case examples for integrating the model into practice; a discussion of the therapy process

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and how change occurs; language linked to UT and ICIDH-2 terminology; a research chapter; and numerous research references highlighting the growing body of evidence supporting MOHO.

**Price Theory and Applications** May 17 2021

Introducing price theory, this textbook illustrates its applications as much as it explains them. The book uses social welfare as a unifying concept and provides an extended analysis of market failures, property rights, the rule of law, and the relationship between micro- and macro-economics.

**Historical Organization Studies** Nov 30 2019

We are now entering a new phase in the establishment of historical organization studies as a distinctive methodological paradigm within the broad field of organization studies. This book serves both as a landmark in the development of the field and as a key reference tool for researchers and students. For two decades, organization theorists have emphasized the need for more and better research recognizing the

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importance of the past in shaping the present and future. By historicizing organizational research, the contexts and forces bearing upon organizations will be more fully recognized, and analyses of organizational dynamics improved. But how, precisely, might a traditionally empirically oriented discipline such as history be incorporated into a theoretically oriented discipline such as organization studies? This book evaluates the current state of play, advances it and identifies the possibilities the new emergent field offers for the future. In addition to providing an important work of reference on the subject for researchers, the book can be used to introduce management and organizational history to a student audience at both undergraduate and postgraduate levels. The book is a valuable source for wider reading, providing rich reference material in tutorials across organizational studies, or as recommended or required reading on courses with a connection to business or management

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history.

**Trends of Data Science and Applications** Jul 07 2020 This book includes an extended version of selected papers presented at the 11th Industry Symposium 2021 held during January 7-10, 2021. The book covers contributions ranging from theoretical and foundation research, platforms, methods, applications, and tools in all areas. It provides theory and practices in the area of data science, which add a social, geographical, and temporal dimension to data science research. It also includes application-oriented papers that prepare and use data in discovery research. This book contains chapters from academia as well as practitioners on big data technologies, artificial intelligence, machine learning, deep learning, data representation and visualization, business analytics, healthcare analytics, bioinformatics, etc. This book is helpful for the students, practitioners, researchers as well as industry professional.

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**Linear Circuits, Systems, and Signal Processing** Nov 10 2020

*Theory and Application of Statistical Energy Analysis* May 05 2020 This up-to-date second edition provides a comprehensive examination of the theory and application of Statistical Energy Analysis (SEA) in acoustics and vibration. Complete with examples and data taken from real problems this unique book also explores the influence of computers on SEA and emphasizes computer based SEA calculations. In addition to a discussion of the relationship between SEA and other procedures used in response estimation, *Theory and Application of Statistical Energy Analysis, Second Edition*, explores the basic relationships between model and wave descriptions of systems.

**Functional Analysis** Dec 24 2021 Massive compilation offers detailed, in-depth discussions of vector spaces, Hahn-Banach theorem, fixed-point theorems, duality theory, Krein-Milman theorem, theory of compact operators, much

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more. Many examples and exercises. 32-page bibliography. 1965 edition.

*International Conference on Theory and Application in Nonlinear Dynamics (ICAND 2012)* Mar 03 2020 A collection of different lectures presented by experts in the field of nonlinear science provides the reader with contemporary, cutting-edge, research works that bridge the gap between theory and device realizations of nonlinear phenomena.

Representative examples of topics covered include: chaos gates, social networks, communication, sensors, lasers, molecular motors, biomedical anomalies, stochastic resonance, nano-oscillators for generating microwave signals and related complex systems. A common theme among these and many other related lectures is to model, study, understand, and exploit the rich behavior exhibited by nonlinear systems to design and fabricate novel technologies with superior characteristics.

Consider, for instance, the fact that a shark's

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sensitivity to electric fields is 400 times more powerful than the most sophisticated electric-field sensor. In spite of significant advances in material properties, in many cases it remains a daunting task to duplicate the superior signal processing capabilities of most animals. Since nonlinear systems tend to be highly sensitive to perturbations when they occur near the onset of a bifurcation, there are also lectures on the general topic of bifurcation theory and on how to exploit such bifurcations for signal enhancements purposes. This manuscript will appeal to researchers interested in both theory and implementations of nonlinear systems. Anisotropic Elasticity Sep 08 2020 Elasticity is a property of materials which returns them to their original shape after forces applied to change the shape have been removed. This advanced text explores the problems of composite or anisotropic materials and their elasticity.

Uncertain Volatility Models Apr 03 2020 This is

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one of the only books to describe uncertain volatility models in mathematical finance and their computer implementation for portfolios of vanilla, barrier and American options in equity and FX markets. Uncertain volatility models place subjective constraints on the volatility of the stochastic process of the underlying asset and evaluate option portfolios under worst- and best-case scenarios. This book, which is bundled with software, is aimed at graduate students, researchers and practitioners who wish to study advanced aspects of volatility risk in portfolios of vanilla and exotic options. The reader is assumed to be familiar with arbitrage pricing theory.

**Cognition: Theories and Applications** Jul 19 2021 Dr. Stephen Reed's Ninth Edition of COGNITION: THEORY AND APPLICATIONS focuses on the theories that underlie cognitive phenomena as well as empirical data that establishes a traditional, information processing approach to cognitive psychology. This structure

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allows undergraduates to discover the direct relevance of cognitive psychology to many of their daily activities. The text incorporates unparalleled scholarship in a distinctive clear voice that allows for the emphasis of both contemporary and classical research through real-life examples and experiments. Revised and updated throughout to maintain a high degree of currency and accuracy, content reflects the ever-evolving field and is made relevant to students' lives through the inclusion of popular articles from well-known magazines and newspapers. As a result of its adherence to three criteria--the material must make an important contribution to cognitive psychology, be accessible, and be both understandable and interesting--the text is an invaluable tool in learning cognitive psychology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Ecological Statistics** Apr 27 2022 An intermediate level text covering foundational

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ideas in statistics and their ecological application, including generalized linear and generalized mixed-effect models, as well as models allowing for mixtures, spatial or phylogenetic correlations, missing or censored data, and observational data; implemented in R and set within a contemporary research framework.

**Statistics of Extremes** Sep 01 2022 Research in the statistical analysis of extreme values has flourished over the past decade: new probability models, inference and data analysis techniques have been introduced; and new application areas have been explored. *Statistics of Extremes* comprehensively covers a wide range of models and application areas, including risk and insurance: a major area of interest and relevance to extreme value theory. Case studies are introduced providing a good balance of theory and application of each model discussed, incorporating many illustrated examples and plots of data. The last part of the book covers

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some interesting advanced topics, including time series, regression, multivariate and Bayesian modelling of extremes, the use of which has huge potential.

*Handbook of Critical Information Systems Research* Mar 15 2021 'This indispensable book provides an excellent overview of the variety of perspectives that characterize critical research in the information systems field.' - Michael D. Myers, University of Auckland, New Zealand This important Handbook provides a unique overview of information systems (IS) research by focusing on the increasing interest in critical-related issues. Representing a significant step forward in the development of critical perspectives on the IS field, the Handbook draws together original contributions from leading authors who offer alternatives to the current mainstream approaches to IS research. *Optimization—Theory and Applications* Oct 02 2022 This book has grown out of lectures and courses in calculus of variations and

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optimization taught for many years at the University of Michigan to graduate students at various stages of their careers, and always to a mixed audience of students in mathematics and engineering. It attempts to present a balanced view of the subject, giving some emphasis to its connections with the classical theory and to a number of those problems of economics and engineering which have motivated so many of the present developments, as well as presenting aspects of the current theory, particularly value theory and existence theorems. However, the presentation of the theory is connected to and accompanied by many concrete problems of optimization, classical and modern, some more technical and some less so, some discussed in detail and some only sketched or proposed as exercises. No single part of the subject (such as the existence theorems, or the more traditional approach based on necessary conditions and on sufficient conditions, or the more recent one based on value function theory) can give a

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sufficient representation of the whole subject. This holds particularly for the existence theorems, some of which have been conceived to apply to certain large classes of problems of optimization. For all these reasons it is essential to present many examples (Chapters 3 and 6) before the existence theorems (Chapters 9 and 11-16), and to investigate these examples by means of the usual necessary conditions, sufficient conditions, and value function theory.

### **13th International Conference on Theory and Application of Fuzzy Systems and Soft Computing – ICAFS-2018**

Jan 01 2020 This book presents the proceedings of the 13th International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS 2018), held in Warsaw, Poland on August 27–28, 2018. It includes contributions from diverse areas of soft computing such as uncertain computation, Z-information processing, neuro-fuzzy approaches, evolutionary computing and others. The topics of the papers include theory of uncertainty

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computation; theory and application of soft computing; decision theory with imperfect information; neuro-fuzzy technology; image processing with soft computing; intelligent control; machine learning; fuzzy logic in data analytics and data mining; evolutionary computing; chaotic systems; soft computing in business, economics and finance; fuzzy logic and soft computing in the earth sciences; fuzzy logic and soft computing in engineering; soft computing in medicine, biomedical engineering and the pharmaceutical sciences; and

probabilistic and statistical reasoning in the social and educational sciences. The book covers new ideas from theoretical and practical perspectives in economics, business, industry, education, medicine, the earth sciences and other fields. In addition to promoting the development and application of soft computing methods in various real-life fields, it offers a useful guide for academics, practitioners, and graduates in fuzzy logic and soft computing fields.