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Probability, Statistics and Econometrics Computer-Aided Introduction to Econometrics Strategic Asset Allocation in Fixed Income Markets Adventures in Contemporary Electromagnetic Theory Interference Analysis Optimization Methods in Finance **Foundations of Software Science and Computation Structures** Introduction to Microwave Imaging Wireless Receiver Architectures and Design *Proceedings* **Neural-Based Orthogonal Data Fitting AC Machine Systems** *Multiple-Input Multiple-Output Channel Models* **CONTROLO 2020 Probability and Queueing Theory Modern Nonconvex Nondifferentiable Optimization** *Computer Vision – ECCV 2020* **Computer Vision -- ECCV 2014** Theory of Stochastic Differential Equations with Jumps and Applications **Fairness, Responsibility, and Welfare** *Fundamentals of High-Dimensional Statistics Extrinsic Geometry of Convex Surfaces Journal of the American Statistical Association Selected Papers of C. R. Rao Electrical Engineering Handbook Journal of Differential Geometry* **Identification Problems of Wave Phenomena** *Structure & Statistics in Crystallography Verification and Validation in Scientific Computing c't Hardware-Guide 2022* **Transactions of the American Institute of Electrical Engineers Stochastic Numerics for Mathematical Physics** Transactions of the American Institute of Electrical Engineers Proceedings of the American Institute of Electrical Engineers **Journal of the American Institute of Electrical Engineers** *Collegiate Microcomputer* Journal of the Society for Industrial and Applied Mathematics. Series B: Numerical Analysis c't Hardware-Guide 2023 c't ChatGPT & Co.

The Inverse and Ill-Posed Problems Series is a series of monographs publishing postgraduate level information on inverse and ill-posed problems for an international readership of professional scientists and researchers. The series aims to publish works which involve both theory and applications in, e.g., physics, medicine, geophysics, acoustics, electrodynamics, tomography, and ecology. Probability, Statistics and Econometrics provides a concise, yet rigorous, treatment of the field that is suitable for graduate students studying econometrics, very advanced undergraduate students, and researchers seeking to extend their knowledge of the trinity of fields that use quantitative data in economic decision-making. The book covers much of the groundwork for probability and inference before proceeding to core topics in econometrics. Authored by one of the leading econometricians in the field, it is a unique and valuable addition to the current repertoire of econometrics textbooks and reference books. Synthesizes three substantial areas of research, ensuring success in a subject matter than can be challenging to newcomers Focused and modern coverage that provides relevant examples from economics and finance Contains some modern frontier material, including bootstrap and lasso methods not treated in similar-level books Collects the necessary material for first semester Economics PhD students into a single text Im neuen Sonderheft c't Hardware-Guide durchleuchtet die c't-Redaktion einzelne Komponenten, mit denen Sie

einen PC nach Ihren individuellen Anforderungen zusammenbauen. Denn günstiger und nachhaltiger als eine Neuanschaffung ist das Aufrüsten, wodurch Sie das Leben Ihres PCs um einige Jahre verlängern können. Dabei wird der Selbstbau durch zwei verschiedene Bauvorschläge erleichtert. Über die zahlreichen Tests attraktiver Hardware wie SSDs, Mainboards, Netzteile und CPU-Kühler hinaus, gibt der Guide Ratschläge für den Betrieb von Windows 11 auf Ihrem bestehenden Rechner. Develops a theory of fairness incorporating a concern for personal responsibility, opportunities and freedom, and makes accessible the recent developments in economics and philosophy that define social justice in terms of equal opportunities. Optimization models play an increasingly important role in financial decisions. This is the first textbook devoted to explaining how recent advances in optimization models, methods and software can be applied to solve problems in computational finance more efficiently and accurately. Chapters discussing the theory and efficient solution methods for all major classes of optimization problems alternate with chapters illustrating their use in modeling problems of mathematical finance. The reader is guided through topics such as volatility estimation, portfolio optimization problems and constructing an index fund, using techniques such as nonlinear optimization models, quadratic programming formulations and integer programming models respectively. The book is based on Master's courses in financial engineering and comes with worked examples, exercises and case studies. It will be welcomed by applied mathematicians, operational researchers and others who work in mathematical and computational finance and who are seeking a text for self-learning or for use with courses. The seven-volume set comprising LNCS volumes 8689-8695 constitutes the refereed proceedings of the 13th European Conference on Computer Vision, ECCV 2014, held in Zurich, Switzerland, in September 2014. The 363 revised papers presented were carefully reviewed and selected from 1444 submissions. The papers are organized in topical sections on tracking and activity recognition; recognition; learning and inference; structure from motion and feature matching; computational photography and low-level vision; vision; segmentation and saliency; context and 3D scenes; motion and 3D scene analysis; and poster sessions. Common to CSE and IT for all Anna Universities The presentation of a novel theory in orthogonal regression The literature about neural-based algorithms is often dedicatedto principal component analysis (PCA) and considers minor componentanalysis (MCA) a mere consequence. Breaking the mold,Neural-Based Orthogonal Data Fitting is the first book tostart with the MCA problem and arrive at important conclusionsabout the PCA problem. The book proposes several neural networks, all endowed with acomplete theory that not only explains their behavior, but alsocompares them with the existing neural and traditional algorithms.EXIN neurons, which are of the authors' invention, are introduced,explained, and analyzed. Further, it studies the algorithms as adifferential geometry problem, a dynamic problem, a stochasticproblem, and a numerical problem. It demonstrates the novel aspectsof its main theory, including its applications in computer visionand linear system identification. The book shows both thederivation of the TLS EXIN from the MCA EXIN and the originalderivation, as well as: Shows TLS problems and gives a sketch of their history andapplications Presents MCA EXIN and compares it with the other existingapproaches Introduces the TLS EXIN neuron and the SCG and BFGS accelerationtechniques and compares them with TLS GAO Outlines the GeTLS EXIN theory for generalizing and unifying theregression problems Establishes the GeMCA theory, starting with the identificationof GeTLS EXIN as a generalization eigenvalue problem In dealing with mathematical and numerical aspects of EXINneurons, the book is mainly theoretical. All the algorithms,however, have been used in analyzing real-time problems and showaccurate

solutions. Neural-Based Orthogonal Data Fitting isuseful for statisticians, applied mathematics experts, andengineers. "Index of current electrical literature," Dec. 1887- appended to v. 5- The book describes how interference can be managed so that radio systems co-exist, without harmful mutual effects, within a finite amount of spectrum. This is timely in view of the increasing proliferation of wireless systems. It covers both the processes, such as regional or international coordination, as well as the engineering principles. Written by an author with extensive experience in the industry, it describes in detail the main methodologies for calculating or computing the interference between radio systems of the same type, and also between radio systems of different types Wenn Sie damit liebäugeln, sich einen maßgeschneiderten Rechner selbst zusammenzustellen, ist jetzt ein guter Zeitpunkt. Im c’t Hardware-Guide finden Sie drei Bauvorschläge für einen sparsamen Allrounder, einen Highend-PC und eine kompakte Gaming-Maschine. Dank der umfangreichen Kaufberatung und zahlreichen Hardware-Tests zu gängigen PC-Komponenten behalten Sie beim Riesenangebot an Prozessoren, Mainboards und Grafikkarten den Überblick. Die Artikel helfen Ihnen nicht nur beim Bau eines neuen Rechners, sondern unterstützen Sie auch beim Aufrüsten bestehender Systeme. Entdecken Sie im neuen Sonderheft c't ChatGPT & Co. die faszinierende Welt der KI. Wir geben Ihnen einen umfassenden Überblick über die neusten Entwicklungen, Testergebnisse und praktischen Tipps. Von ChatGPT als Schreibhelfer über KI-Suchmaschine bis hin zu Musik- und Bildgeneratoren – erfahren Sie, was bereits funktioniert und wo noch Potenzial zur Verbesserung besteht. Tauchen Sie ein und lassen Sie sich von der Zukunft der KI inspirieren! The advent of low cost computation has made many previously intractable econometric models empirically feasible and computational methods are now realized as an integral part of the theory. This book provides graduate students and researchers not only with a sound theoretical introduction to the topic, but allows the reader through an internet based interactive computing method to learn from theory to practice the different techniques discussed in the book. Among the theoretical issues presented are linear regression analysis, univariate time series modelling with some interesting extensions such as ARCH models and dimensionality reduction techniques. The electronic version of the book including all computational possibilites can be viewed at http://www.xplore-stat.de/ebooks/ebooks.html The 30-volume set, comprising the LNCS books 12346 until 12375, constitutes the refereed proceedings of the 16th European Conference on Computer Vision, ECCV 2020, which was planned to be held in Glasgow, UK, during August 23-28, 2020. The conference was held virtually due to the COVID-19 pandemic. The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation. Starting with the fundamentals of classical smooth optimization and building on established convex programming techniques, this research monograph presents a foundation and methodology for modern nonconvex nondifferentiable optimization. It provides readers with theory, methods, and applications of nonconvex and nondifferentiable optimization in statistical estimation, operations research, machine learning, and decision making. A comprehensive and rigorous treatment of this emergent mathematical topic is urgently needed in today’s complex world of big data and machine learning. This book takes a thorough approach to the subject and includes examples and exercises to enrich the main themes, making it suitable for classroom instruction. Modern Nonconvex Nondifferentiable Optimization

is intended for applied and computational mathematicians, optimizers, operations researchers, statisticians, computer scientists, engineers, economists, and machine learners. It could be used in advanced courses on optimization/operations research and nonconvex and nonsmooth optimization. Includes preprints of: Transactions of the American Institute of Electrical Engineers, ISSN 0096-3860. Stochastic differential equations (SDEs) are a powerful tool in science, mathematics, economics and finance. This book will help the reader to master the basic theory and learn some applications of SDEs. In particular, the reader will be provided with the backward SDE technique for use in research when considering financial problems in the market, and with the reflecting SDE technique to enable study of optimal stochastic population control problems. These two techniques are powerful and efficient, and can also be applied to research in many other problems in nature, science and elsewhere. A complete discussion of MIMO communications, from theory to real-world applications The emerging wireless technology Wideband Multiple-Input, Multiple-Output (MIMO) holds the promise of greater bandwidth efficiency and wireless link reliability. This technology is just now being implemented into hardware and working its way into wireless standards such as the ubiquitous 802.11g, as well as third- and fourth-generation cellular standards. Multiple-Input Multiple-Output Channel Models uniquely brings together the theoretical and practical aspects of MIMO communications, revealing how these systems use their multipath diversity to increase channel capacity. It gives the reader a clear understanding of the underlying propagation mechanisms in the wideband MIMO channel, which is fundamental to the development of communication algorithms, signaling strategies, and transceiver design for MIMO systems. MIMO channel models are important tools in understanding the potential gains of a MIMO system. This book discusses two types of wideband MIMO models in detail: correlative channel models—specifically the Kronecker, Weichselberger, and structured models—and cluster models, including Saleh-Valenzuela, European Cooperation in the field of Scientific and Technical Research (COST) 273, and Random Cluster models. From simple to complex, the reader will understand the models' mechanisms and the reasons behind the parameters. Next, channel sounding is explained in detail, presenting the theory behind a few channel sounding techniques used to sound narrowband and wideband channels. The technique of digital matched filtering is then examined and, using real-life data, is shown to provide very accurate estimates of channel gains. The book concludes with a performance analysis of the structured and Kronecker models. Multiple-Input Multiple-Output Channel Models is the first book to apply tensor calculus to the problem of wideband MIMO channel modeling. Each chapter features a list of important references, including core literary references, Matlab implementations of key models, and the location of databases that can be used to help in the development of new models or communication algorithms. Engineers who are working in the development of telecommunications systems will find this resource invaluable, as will researchers and students at the graduate or post-graduate level. A Longman Topics Reader that considers food in the social context. Starting from the assumption that eating is about a whole lot more than food, The Eater Reader presents students with an overview of the many issues, questions and controversies to which this activity is connected: from standards of health nutrition to messages about body image, debates over environmentalism or consumerism to issues of gender, racial and class difference. This book offers a timely and comprehensive snapshot of research and developments in the field of control engineering. Covering a wide range of theoretical and practical issues, the contributions describes a number of different control approaches, such adaptive control, fuzzy and neuro-fuzzy control, remote and robust control systems, real time an fault tolerant control, among

others. Sensors and actuators, measurement systems, renewable energy systems, aerospace systems as well as industrial control and automation, are also comprehensively covered. Based on the proceedings of the 14th APCA International Conference on Automatic Control and Soft Computing, held on July 1-3, 2020, in Bragança, Portugal, the book offers a timely and thoroughly survey of the latest research in the field of control, and a source of inspiration for researchers and professionals worldwide. "AC Machine Systems" stresses both analysis methods and operating performances of AC machine systems, including variable speed drive system of AC machines with power electronics and control devices, power energy system composed of AC machines and power lines, special machine system with special machines and special loads, electric machine system consisting of AC machines and excitation devices. Based on a single coil, the Multi-Loop Theory is thoroughly described, and examples of how to use the new approach are presented. This book provides a new way for analyzing the AC machine systems. This book is designed for the researchers and postgraduates in the field of electric machines and control. It's also a reference book for related technicians. This book is written in memory of Professor Jingde Gao, past-president of Tsinghua University, Member of Chinese Academy of Sciences. Another two authors, Linzheng Zhang and Xiangheng Wang both are Professors in Electrical Engineering Dept. of Tsinghua University. Advances in scientific computing have made modelling and simulation an important part of the decision-making process in engineering, science, and public policy. This book provides a comprehensive and systematic development of the basic concepts, principles, and procedures for verification and validation of models and simulations. The emphasis is placed on models that are described by partial differential and integral equations and the simulations that result from their numerical solution. The methods described can be applied to a wide range of technical fields, from the physical sciences, engineering and technology and industry, through to environmental regulations and safety, product and plant safety, financial investing, and governmental regulations. This book will be genuinely welcomed by researchers, practitioners, and decision makers in a broad range of fields, who seek to improve the credibility and reliability of simulation results. It will also be appropriate either for university courses or for independent study. With this self-contained, introductory text, readers will easily understand the fundamentals of microwave and radar image generation. Written with the complete novice in mind, and including an easy-to-follow introduction to electromagnetic scattering theory, it covers key topics such as forward models of scattering for interpreting S-parameter and time-dependent voltage data, S-parameters and their analytical sensitivity formulae, basic methods for real-time image reconstruction using frequency-sweep and pulsed-radar signals, and metrics for evaluating system performance. Numerous application examples and practical tutorial exercises provided throughout allow quick understanding of key concepts, and sample MATLAB codes implementing key reconstruction algorithms accompany the book online. This one-stop resource is ideal for graduate students taking introductory courses in microwave imaging, as well as researchers and industry professionals wanting to learn the fundamentals of the field. This book constitutes the proceedings of the 16th International Conference on Foundations of Software Science and Computational Structures, FOSSACS 2013, held as part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2013, which took place in Rome, Italy, in March 2013 The 28 papers presented in this volume were carefully reviewed and selected from 109 submissions. They are organized in topical sections named: models of computation; reasoning about processes; bisimulation; modal and higher-order logics; reasoning about programs; computational complexity; quantitative models; and categorical models. This textbook provides a step-by-step introduction to the tools and principles of high-

dimensional statistics. Each chapter is complemented by numerous exercises, many of them with detailed solutions, and computer labs in R that convey valuable practical insights. The book covers the theory and practice of high-dimensional linear regression, graphical models, and inference, ensuring readers have a smooth start in the field. It also offers suggestions for further reading. Given its scope, the textbook is intended for beginning graduate and advanced undergraduate students in statistics, biostatistics, and bioinformatics, though it will be equally useful to a broader audience. This book is a substantially revised and expanded edition reflecting major developments in stochastic numerics since the first edition was published in 2004. The new topics, in particular, include mean-square and weak approximations in the case of nonglobally Lipschitz coefficients of Stochastic Differential Equations (SDEs) including the concept of rejecting trajectories; conditional probabilistic representations and their application to practical variance reduction using regression methods; multi-level Monte Carlo method; computing ergodic limits and additional classes of geometric integrators used in molecular dynamics; numerical methods for FBSDEs; approximation of parabolic SPDEs and nonlinear filtering problem based on the method of characteristics. SDEs have many applications in the natural sciences and in finance. Besides, the employment of probabilistic representations together with the Monte Carlo technique allows us to reduce the solution of multi-dimensional problems for partial differential equations to the integration of stochastic equations. This approach leads to powerful computational mathematics that is presented in the treatise. Many special schemes for SDEs are presented. In the second part of the book numerical methods for solving complicated problems for partial differential equations occurring in practical applications, both linear and nonlinear, are constructed. All the methods are presented with proofs and hence founded on rigorous reasoning, thus giving the book textbook potential. An overwhelming majority of the methods are accompanied by the corresponding numerical algorithms which are ready for implementation in practice. The book addresses researchers and graduate students in numerical analysis, applied probability, physics, chemistry, and engineering as well as mathematical biology and financial mathematics. A scientific and educational journal not only for professional statisticians but also for economists, business executives, research directors, government officials, university professors, and others who are seriously interested in the application of statistical methods to practical problems, in the development of more useful methods, and in the improvement of basic statistical data. Wireless Receiver Architectures and Design presents the various designs and architectures of wireless receivers in the context of modern multi-mode and multi-standard devices. This one-stop reference and guide to designing low-cost low-power multi-mode, multi-standard receivers treats analog and digital signal processing simultaneously, with equal detail given to the chosen architecture and modulating waveform. It provides a complete understanding of the receiver‘s analog front end and the digital backend, and how each affects the other. The book explains the design process in great detail, starting from an analysis of requirements to the choice of architecture and finally to the design and algorithm development. The advantages and disadvantages of each wireless architecture and the suitability to a standard are given, enabling a better choice of design methodology, receiver lineup, analog block, and digital algorithm for a particular architecture. Whether you are a communications engineer working in system architecture and waveform design, an RF engineer working on noise and linearity budget and line-up analysis, a DSP engineer working on algorithm development, or an analog or digital design engineer designing circuits for wireless transceivers, this book is your one-stop reference and guide to designing low-cost low-power multi-mode multi-standard receivers. The material in this

book is organized and presented to lead you from applied theory to practical design with plenty of examples and case studies drawn from modern wireless standards. Provides a complete description of receiver architectures together with their pros and cons, enabling a better choice of design methodology Covers the design trade-offs and algorithms between the analog front end and the digital modem – enabling an end-to-end design approach Addresses multi-mode multi-standard low-cost, low-power radio design – critical for producing the applications for Smart phones and portable internet devices Matlab is used within nearly all investment banks and is a requirement in most quant job ads. There is no other book written for finance practitioners that covers this Enables readers to implement financial and econometric models in Matlab All central concepts and theories are illustrated by Matlab implementations which are accompanied by detailed descriptions of the programming steps needed All concepts and techniques are introduced from a basic level Chapter 1 introduces Matlab and matrix algebra, it serves to make the reader familiar with the use and basic capabilities if Matlab. The chapter concludes with a walkthrough of a linear regression model, showing how Matlab can be used to solve an example problem analytically and by the use of optimization and simulation techniques Chapter 2 introduces expected return and risk as central concepts in finance theory using fixed income instruments as examples, the chapter illustrates how risk measures such as standard deviation, Modified duration, VaR, and expected shortfall can be calculated empirically and in closed form Chapter 3 introduces the concept of diversification and illustrates how the efficient investment frontier can be derived - a Matlab is developed that can be used to calculate a given number of portfolios that lie on an efficient frontier, the chapter also introduces the CAPM Chapter 4 introduces econometric tools: principle component analysis is presented and used as a prelude to yield-curve factor models. The Nelson-Siegel model is used to introduce the Kalman-Filter as a way to add time-series dynamics to the evolution of yield curves over time, time series models such as Vector Autoregression and regime-switching are also presented Supported by a website with online resources - www.kennyholm.com where all Matlab programs referred to in the text can be downloaded. The site also contains lecture slides and answers to end of chapter exercises