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Bin Jia, Ming Xin



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Modelling and Parameter Estimation of Dynamic Systems J.R. Raol, G. Girija, J. Singh, 2004-08-13 This book presents a detailed examination of the estimation techniques and modeling problems The theory is furnished with several illustrations and computer programs to promote better understanding of system modeling and parameter estimation Software Project Effort Estimation Adam Trendowicz, Ross Jeffery, 2014-05-07 Software effort estimation is one of the oldest and most important problems in software project management and thus today there are a large number of models each with its own unique strengths and weaknesses in general and even more importantly in relation to the environment and context in which it is to be applied Trendowicz and Jeffery present a comprehensive look at the principles of software effort estimation and support software practitioners in systematically selecting and applying the most suitable effort estimation approach Their book not only presents what approach to take and how to apply and improve it but also explains why certain approaches should be used in specific project situations Moreover it explains popular estimation methods summarizes estimation best practices and provides guidelines for continuously improving estimation capability Additionally the book offers invaluable insights into project management in general discussing issues including project trade offs risk assessment and organizational learning Overall the authors deliver an essential reference work for software practitioners responsible for software effort estimation and planning in their daily work and who want to improve their estimation skills At the same time for lecturers and students the book can serve as the basis of a course in software processes software estimation or project management

Classical and Modern Direction-of-Arrival Estimation T. Engin Tuncer, Benjamin Friedlander, 2009-07-10 Classical

and Modern Direction of Arrival Estimation contains both theory and practice of direction finding by the leading researchers in the field This unique blend of techniques used in commercial DF systems and state of the art super resolution methods is a valuable source of information for both practicing engineers and researchers Key topics covered are Classical methods of direction finding Practical DF methods used in commercial systems Calibration in antenna arrays Array mapping fast algorithms and wideband processing Spatial time frequency distributions for DOA estimation DOA estimation in threshold region Higher order statistics for DOA estimation Localization in sensor networks and direct position estimation Brings together in one book classical and modern DOA techniques showing the connections between them Contains contributions from the leading people in the field Gives a concise and easy to read introduction to the classical techniques Evaluates the strengths and weaknesses of key super resolution techniques Includes applications to sensor networks

Mental Computation and Estimation Charalampos Lemonidis,2015-12-01 Mental calculations and estimations are basic everyday skills that are essential for real life arithmetic operations and number sense This book presents a much needed overview and analysis of mental computation and estimation drawing on contemporary research and empirical studies that were conducted on students teachers and adults to cover all aspects of this complex field Mental Computation and Estimation analyses the implications that are involved in the research teaching and learning of mathematics and delivers effective practices that will enhance everyday learning for students Focusing on a range of international research and studies from the School of Nature and Life Mathematics in Greece it answers a number of important questions including What mental calculations and estimations are why they are important and what other mathematical concepts and cognitive behaviors are they related to What strategies are used on mental additions subtractions multiplications and divisions and how are multiplication tables learned What are the new trends in the teaching of mental calculation and estimation An invaluable resource for all those involved in the practice and research of mathematics education Mental Computation and Estimation will also be a useful tool for researchers policy makers and developers of educational programs

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Estimation and Compensation of IQ Imbalance in Broadband Communications Receivers Marcus Windisch,2007

Parameter Estimation of Permanent Magnet Synchronous Machines Zi Qiang Zhu,Kan Liu,Dawei

Liang,2025-05-20 Comprehensive reference delivering basic principles and state of the art parameter estimation techniques for permanent magnet synchronous machines PMSMs Parameter Estimation of Permanent Magnet Synchronous Machines reviews estimation techniques of the parameters of PMSMs introducing basic models and techniques as well as issues and solutions in parameter estimation challenges including rank deficiency inverter nonlinearity and magnetic saturation This

book is supported by theories experiments and simulation examples for each technique covered Topics explored in this book include Electrical and mechanical parameter estimation techniques including those based on current voltage injection and position offset injection under constant or variable speed and load for sensed or sensorless controlled PMSMs accounting for magnetic saturation cross coupling inverter nonlinearity temperature effects and more Recursive least squares the Kalman filter model reference adaptive systems Adaline neural networks gradient based methods particle swarm optimization and genetic algorithms Applications of parameter estimation techniques for improvement of control performance sensorless control thermal condition monitoring and fault diagnosis This book is an essential reference for professionals working on the control and design of electrical machines researchers studying electric vehicles wind power generators aerospace industrial drives automation systems robots and domestic appliances as well as advanced undergraduate and graduate students in related programs of study

Mineral Resource Estimation Mario E. Rossi, Clayton V. Deutsch, 2013-12-21 Mineral resource estimation has changed considerably in the past 25 years geostatistical techniques have become commonplace and continue to evolve computational horsepower has revolutionized all facets of numerical modeling mining and processing operations are often larger and uncertainty quantification is becoming standard practice Recent books focus on historical methods or details of geostatistical theory So there is a growing need to collect and synthesize the practice of modern mineral resource estimation into a book for undergraduate students beginning graduate students and young geologists and engineers It is especially fruitful that this book is written by authors with years of relevant experience performing mineral resource estimation and with years of relevant teaching experience This comprehensive textbook and reference fills this need

A Systematic Handbook of Volumetric Analysis; or, The Quantitative Estimation of Chemical Substances by Measure, Applied to Liquids, Solids and Gases Francis Sutton, 2024-03-12 Reprint of the original first published in 1876

Motion Estimation for Video Coding Indrajit Chakrabarti, Kota Naga Srinivasarao Batta, Sumit Kumar Chatterjee, 2015-01-13 The need of video compression in the modern age of visual communication cannot be over emphasized This monograph will provide useful information to the postgraduate students and researchers who wish to work in the domain of VLSI design for video processing applications In this book one can find an in depth discussion of several motion estimation algorithms and their VLSI implementation as conceived and developed by the authors It records an account of research done involving fast three step search successive elimination one bit transformation and its effective combination with diamond search and dynamic pixel truncation techniques Two appendices provide a number of instances of proof of concept through Matlab and Verilog program segments In this aspect the book can be considered as first of its kind The architectures have been developed with an eye to their applicability in everyday low power handheld appliances including video camcorders and smartphones

Fault Tolerant Attitude Estimation for Small Satellites Chingiz Hajiyeu, Halil Ersin Soken, 2020-12-22 Small satellites use commercial off the shelf

sensors and actuators for attitude determination and control ADC to reduce the cost These sensors and actuators are usually not as robust as the available more expensive space proven equipment As a result the ADC system of small satellites is more vulnerable to any fault compared to a system for larger competitors This book aims to present useful solutions for fault tolerance in ADC systems of small satellites The contents of the book can be divided into two categories fault tolerant attitude filtering algorithms for small satellites and sensor calibration methods to compensate the sensor errors MATLAB will be used to demonstrate simulations Presents fault tolerant attitude estimation algorithms for small satellites with an emphasis on algorithms practicability and applicability Incorporates fundamental knowledge about the attitude determination methods at large Discusses comprehensive information about attitude sensors for small satellites Reviews calibration algorithms for small satellite magnetometers with simulated examples Supports theory with MATLAB simulation results which can be easily understood by individuals without a comprehensive background in this field Covers up to date discussions for small satellite attitude systems design Dr Chingiz Hajiyev is a professor at the Faculty of Aeronautics and Astronautics Istanbul Technical University Istanbul Turkey Dr Halil Ersin Soken is an assistant professor at the Aerospace Engineering Department Middle East Technical University Ankara Turkey

Secure Fusion Estimation and Control for Cyber-Physical Systems Under Malicious Attacks Bo Chen,Tongxiang Li,Wen-An Zhang,Li Yu,2025-01-03 The book focuses on the issues of secure fusion estimation and control in cyber physical systems under cyber attacks such as privacy protection under eavesdropping attacks security fusion estimation under DoS and FDI attacks and model based and model free security control under cyber attacks The comprehensive and systematic treatment of security protection in cyber physical systems is one of the main features of the book which is particularly suitable for readers interested in learning practical solutions for the security of cyber physical systems The book can benefit researchers engineers and graduate students in the fields of control science and engineering computer science communication engineering etc

Grid-based Nonlinear Estimation and Its Applications Bin Jia,Ming Xin,2019-04-25 Grid based Nonlinear Estimation and its Applications presents new Bayesian nonlinear estimation techniques developed in the last two decades Grid based estimation techniques are based on efficient and precise numerical integration rules to improve performance of the traditional Kalman filtering based estimation for nonlinear and uncertainty dynamic systems The unscented Kalman filter Gauss Hermite quadrature filter cubature Kalman filter sparse grid quadrature filter and many other numerical grid based filtering techniques have been introduced and compared in this book Theoretical analysis and numerical simulations are provided to show the relationships and distinct features of different estimation techniques To assist the exposition of the filtering concept preliminary mathematical review is provided In addition rather than merely considering the single sensor estimation multiple sensor estimation including the centralized and decentralized estimation is included Different decentralized estimation strategies including consensus diffusion and covariance intersection are investigated Diverse engineering applications such as uncertainty propagation

target tracking guidance navigation and control are presented to illustrate the performance of different grid based estimation techniques

Error Estimation for Pattern Recognition Ulisses M. Braga Neto, Edward R. Dougherty, 2015-06-17 This book is the first of its kind to discuss error estimation with a model based approach From the basics of classifiers and error estimators to distributional and Bayesian theory it covers important topics and essential issues pertaining to the scientific validity of pattern classification *Error Estimation for Pattern Recognition* focuses on error estimation which is a broad and poorly understood topic that reaches all research areas using pattern classification It includes model based approaches and discussions of newer error estimators such as bolstered and Bayesian estimators This book was motivated by the application of pattern recognition to high throughput data with limited replicates which is a basic problem now appearing in many areas The first two chapters cover basic issues in classification error estimation such as definitions test set error estimation and training set error estimation The remaining chapters in this book cover results on the performance and representation of training set error estimators for various pattern classifiers Additional features of the book include The latest results on the accuracy of error estimation Performance analysis of re substitution cross validation and bootstrap error estimators using analytical and simulation approaches Highly interactive computer based exercises and end of chapter problems This is the first book exclusively about error estimation for pattern recognition Ulisses M Braga Neto is an Associate Professor in the Department of Electrical and Computer Engineering at Texas A M University USA He received his PhD in Electrical and Computer Engineering from The Johns Hopkins University Dr Braga Neto received an NSF CAREER Award for his work on error estimation for pattern recognition with applications in genomic signal processing He is an IEEE Senior Member Edward R Dougherty is a Distinguished Professor Robert F Kennedy 26 Chair and Scientific Director at the Center for Bioinformatics and Genomic Systems Engineering at Texas A M University USA He is a fellow of both the IEEE and SPIE and he has received the SPIE Presidents Award Dr Dougherty has authored several books including *Epistemology of the Cell A Systems Perspective on Biological Knowledge* and *Random Processes for Image and Signal Processing* Wiley IEEE Press

Parameter Estimation and Hypothesis Testing in Linear Models Karl-Rudolf Koch, 1999-04 A treatment of estimating unknown parameters testing hypotheses and estimating confidence intervals in linear models Readers will find here presentations of the Gauss Markoff model the analysis of variance the multivariate model the model with unknown variance and covariance components and the regression model as well as the mixed model for estimating random parameters A chapter on the robust estimation of parameters and several examples have been added to this second edition The necessary theorems of vector and matrix algebra and the probability distributions of test statistics are derived so as to make this book self contained Geodesy students as well as those in the natural sciences and engineering will find the emphasis on the geodetic application of statistical models extremely useful

Guaranteed Estimation Problems in the Theory of Linear Ordinary Differential Equations with Uncertain Data Oleksandr Nakonechnyi, Yuri Podlipenko, 2022-09-01 This

monograph is devoted to the construction of optimal estimates of values of linear functionals on solutions to Cauchy and two point boundary value problems for systems of linear first order ordinary differential equations from indirect observations which are linear transformations of the same solutions perturbed by additive random noises It is assumed that right hand sides of equations and boundary data as well as statistical characteristics of random noises in observations are not known and belong to certain given sets in corresponding functional spaces This leads to the necessity of introducing the minimax statement of an estimation problem when optimal estimates are defined as linear with respect to observations estimates for which the maximum of mean square error of estimation taken over the above mentioned sets attains minimal value Such estimates are called minimax or guaranteed estimates It is established that these estimates are expressed explicitly via solutions to some uniquely solvable linear systems of ordinary differential equations of the special type The authors apply these results for obtaining the optimal estimates of solutions from indirect noisy observations Similar estimation problems for solutions of boundary value problems for linear differential equations of order n with general boundary conditions are considered The authors also elaborate guaranteed estimation methods under incomplete data of unknown right hand sides of equations and boundary data and obtain representations for the corresponding guaranteed estimates In all the cases estimation errors are determined

Advances in State and Parameter Estimation Jitendra R. Raol, Parimala P., Reshma V., Sara M. George, 2025-05-27 This book deals with the basics of parameter estimation and state estimation as the fundamental building blocks of mathematical modelling activity in the broader field of control theory All the methods are validated using MATLAB based implementations with realistically simulated data for general dynamic systems as well as for aircraft parameter estimation This book includes several illustrative examples and chapter end exercises Features Provides comprehensive coverage of all issues related to parameter and state estimation Discusses advanced topics related to Kalman filter stability analysis image centroid tracking and neural networks for parameter estimation Explores convergence and stability results for the discussed methods Reviews the estimation of parameters in linear nonlinear models and distributed fitting Includes MATLAB based illustrative examples and exercises This book is aimed at researchers and graduate students in systems and control signal processing estimation theory engineering mathematics and aerospace engineering

Shrinkage Estimation for Mean and Covariance Matrices Hisayuki Tsukuma, Tatsuya Kubokawa, 2020-04-16 This book provides a self contained introduction to shrinkage estimation for matrix variate normal distribution models More specifically it presents recent techniques and results in estimation of mean and covariance matrices with a high dimensional setting that implies singularity of the sample covariance matrix Such high dimensional models can be analyzed by using the same arguments as for low dimensional models thus yielding a unified approach to both high and low dimensional shrinkage estimations The unified shrinkage approach not only integrates modern and classical shrinkage estimation but is also required for further development of the field Beginning with the notion of decision theoretic estimation this book explains

matrix theory group invariance and other mathematical tools for finding better estimators It also includes examples of shrinkage estimators for improving standard estimators such as least squares maximum likelihood and minimum risk invariant estimators and discusses the historical background and related topics in decision theoretic estimation of parameter matrices This book is useful for researchers and graduate students in various fields requiring data analysis skills as well as in mathematical statistics

Advances in Nonlinear Observer Design for State and Parameter Estimation in Energy Systems Andreu Cecilia, 2023-08-28 This book reports on a set of advances relating to nonlinear observer design with a special emphasis on high gain observers First it covers the design of filters and their addition to the observer for reducing noise a topic that has been so far neglected in the literature Further it describes the adaptive re design of nonlinear observers to reduce the effect of parametric uncertainty It discusses several limitations of classical methods presenting a set of successful solutions which are mathematically formalised through Lyapunov stability analysis and in turn validated via numerical simulations In the second part of the book two applications of the adaptive nonlinear observers are described such in the estimation of the liquid water in a hydrogen fuel cell and in the solution of a common cybersecurity problem i e false data injection attacks in DC microgrids All in all this book offers a comprehensive report on the state of the art in nonlinear observer design for energy systems including mathematical demonstrations and numerical and experimental validations

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