

Lennart Ljung

System Identification: Theory for the User (2nd Edition)

Publisher: Prentice Hall; 2 edition

(January 8, 1999)

Language: English

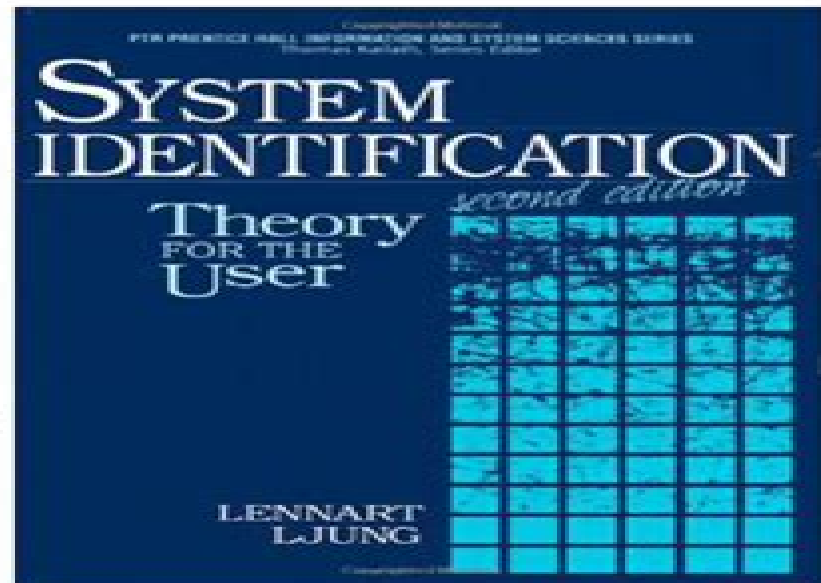
Pages: 672

ISBN: 978-0136566953

Size: 20.35 MB

Format: PDF / ePub / Kindle

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Ljung 2nd Edition

Bruce P. Gibbs



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frequency domain methods Parameter estimation methods in a general prediction error setting Frequency domain data and frequency domain interpretations Asymptotic analysis of parameter estimates Linear regressions iterative search methods and other ways to compute estimates Recursive adaptive estimation techniques Ljung also presents detailed coverage of the key issues that can make or break system identification projects such as defining objectives designing experiments controlling the bias distribution of transfer function estimates and carefully validating the resulting models The first edition of System Identification has been the field's most widely cited reference for over a decade This new edition will be the new text of choice for anyone concerned with system identification theory and practice

The Physiology of Vegetable Crops, 2nd Edition Hans Christian Wien, Hartmut Stützel, 2020-05-01 Completely updated and revised this bestselling book continues to explain the growth and developmental processes involved in the formation of vegetables Since the publication of the successful first edition significant discoveries particularly in the area of molecular biology have deepened and broadened our knowledge and understanding of these processes This new edition brings the topic up to date and is presented over two sections the first provides general knowledge on germination transplanting flowering the effects of stress and modelling whilst the second section details the physiology of specific crops or crop groups

Vitreoretinal Surgical Techniques, Second Edition Gholam A. Peyman, 2019-07-12 Vitreoretinal Surgical Techniques Second Edition provides basic and comprehensive coverage of all aspects of surgery for the vitreous and retina It provides an array of techniques useful not only to ophthalmologist in training but also to the practicing vitreoretinal specialist This superb and invaluable text is both authoritative and practical as experienced practitioners explain their surgical approach in step by step illustrations of operative techniques This new edition contains 87 chapters with almost 900 illustrations most of which are in color Vitreoretinal Surgical Techniques Second Edition will be essential for vitreoretinal specialists comprehensive ophthalmologists residents and fellows as well as in training programs and libraries

Classification, Parameter Estimation and State Estimation Ferdinand van der Heijden, Robert P. Duin, Dick de Ridder, David M. J. Tax, 2005-06-10 Classification Parameter Estimation and State Estimation is a practical guide for data analysts and designers of measurement systems and postgraduates students that are interested in advanced measurement systems using MATLAB Prtools is a powerful MATLAB toolbox for pattern recognition and is written and owned by one of the co authors B Duin of the Delft University of Technology After an introductory chapter the book provides the theoretical construction for classification estimation and state estimation The book also deals with the skills required to bring the theoretical concepts to practical systems and how to evaluate these systems Together with the many examples in the chapters the book is accompanied by a MATLAB toolbox for pattern recognition and classification The appendix provides the necessary documentation for this toolbox as well as an overview of the most useful functions from these toolboxes With its integrated and unified approach to classification parameter estimation and state estimation this book is a suitable practical supplement in existing university courses in

pattern classification optimal estimation and data analysis Covers all contemporary main methods for classification and estimation Integrated approach to classification parameter estimation and state estimation Highlights the practical deployment of theoretical issues Provides a concise and practical approach supported by MATLAB toolbox Offers exercises at the end of each chapter and numerous worked out examples PRtools toolbox MATLAB and code of worked out examples available from the internet Many examples showing implementations in MATLAB Enables students to practice their skills using a MATLAB environment System Identification (SYSID '03) Paul Van Den Hof,Bo Wahlberg,Siep Weiland,2004-06-29

The scope of the symposium covers all major aspects of system identification experimental modelling signal processing and adaptive control ranging from theoretical methodological and scientific developments to a large variety of engineering application areas It is the intention of the organizers to promote SYSID 2003 as a meeting place where scientists and engineers from several research communities can meet to discuss issues related to these areas Relevant topics for the symposium program include Identification of linear and multivariable systems identification of nonlinear systems including neural networks identification of hybrid and distributed systems Identification for control experimental modelling in process control vibration and modal analysis model validation monitoring and fault detection signal processing and communication parameter estimation and inverse modelling statistical analysis and uncertainty bounding adaptive control and data based controller tuning learning data mining and Bayesian approaches sequential Monte Carlo methods including particle filtering applications in process control systems motion control systems robotics aerospace systems bioengineering and medical systems physical measurement systems automotive systems econometrics transportation and communication systems Provides the latest research on System Identification Contains contributions written by experts in the field Part of the IFAC Proceedings Series which provides a comprehensive overview of the major topics in control engineering **Statistical and**

Econometric Methods for Transportation Data Analysis, Second Edition Simon P. Washington,Matthew G. Karlaftis,Fred L. Mannering,2010-12-02 The complexity diversity and random nature of transportation problems necessitates a broad analytical toolbox Describing tools commonly used in the field Statistical and Econometric Methods for Transportation Data Analysis Second Edition provides an understanding of a broad range of analytical tools required to solve transportation problems It includes a wide breadth of examples and case studies covering applications in various aspects of transportation planning engineering safety and economics After a solid refresher on statistical fundamentals the book focuses on continuous dependent variable models and count and discrete dependent variable models Along with an entirely new section on other statistical methods this edition offers a wealth of new material New to the Second Edition A subsection on Tobit and censored regressions An explicit treatment of frequency domain time series analysis including Fourier and wavelets analysis methods New chapter that presents logistic regression commonly used to model binary outcomes New chapter on ordered probability models New chapters on random parameter models and Bayesian statistical modeling New

examples and data sets Each chapter clearly presents fundamental concepts and principles and includes numerous references for those seeking additional technical details and applications To reinforce a practical understanding of the modeling techniques the data sets used in the text are offered on the book's CRC Press web page PowerPoint and Word presentations for each chapter are also available for download

Recursive Estimation and Time-Series Analysis Peter C. Young, 2011-08-04 This is a revised version of the 1984 book of the same name but considerably modified and enlarged to accommodate the developments in recursive estimation and time series analysis that have occurred over the last quarter century Also over this time the CAPTAIN Toolbox for recursive estimation and time series analysis has been developed at Lancaster for use in the MatlabTM software environment see Appendix G Consequently the present version of the book is able to exploit the many computational routines that are contained in this widely available Toolbox as well as some of the other routines in MatlabTM and its other toolboxes The book is an introductory one on the topic of recursive estimation and it demonstrates how this approach to estimation in its various forms can be an impressive aid to the modelling of stochastic dynamic systems It is intended for undergraduate or Masters students who wish to obtain a grounding in this subject or for practitioners in industry who may have heard of topics dealt with in this book and while they want to know more about them may have been deterred by the rather esoteric nature of some books in this challenging area of study

Advanced Kalman Filtering, Least-Squares and Modeling Bruce P. Gibbs, 2011-03-29 This book is intended primarily as a handbook for engineers who must design practical systems Its primary goal is to discuss model development in sufficient detail so that the reader may design an estimator that meets all application requirements and is robust to modeling assumptions Since it is sometimes difficult a priori to determine the best model structure use of exploratory data analysis to define model structure is discussed Methods for deciding on the best model are also presented A second goal is to present little known extensions of least squares estimation or Kalman filtering that provide guidance on model structure and parameters or make the estimator more robust to changes in real world behavior A third goal is discussion of implementation issues that make the estimator more accurate or efficient or that make it flexible so that model alternatives can be easily compared The fourth goal is to provide the designer analyst with guidance in evaluating estimator performance and in determining correcting problems The final goal is to provide a subroutine library that simplifies implementation and flexible general purpose high level drivers that allow both easy analysis of alternative models and access to extensions of the basic filtering Supplemental materials and up to date errata are downloadable at <http://booksupport.wiley.com>

Identification of Continuous-Time Systems Allamaraju Subrahmanyam, Ganti Prasada Rao, 2019-12-06 Models of dynamical systems are required for various purposes in the field of systems and control The models are handled either in discrete time DT or in continuous time CT Physical systems give rise to models only in CT because they are based on physical laws which are invariably in CT In system identification indirect methods provide DT models which are then converted into CT Methods of directly identifying CT models are preferred to the

indirect methods for various reasons. The direct methods involve a primary stage of signal processing followed by a secondary stage of parameter estimation. In the primary stage, the measured signals are processed by a general linear dynamic operation, computational or realized through prefilters, to preserve the system parameters in their native CT form, and the literature is rich on this aspect. In this book, Identification of Continuous Time Systems: Linear and Robust Parameter Estimation, Allamaraju Subrahmanyam and Ganti Prasada Rao consider CT system models that are linear in their unknown parameters and propose robust methods of estimation. This book complements the existing literature on the identification of CT systems by enhancing the secondary stage through linear and robust estimation. In this book, the authors provide an overview of CT system identification, consider Markov parameter models and time moment models as simple linear in parameters models for CT system identification, bring them into mainstream model parameterization via basis functions, present a methodology to robustify the recursive least squares algorithm for parameter estimation of linear regression models, suggest a simple off-line error quantification scheme to show that it is possible to quantify error even in the absence of informative priors, and indicate some directions for further research. This modest volume is intended to be a useful addition to the literature on identifying CT systems.

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