

Nonlinear System Identification



Nonlinear System Identification

Fouad Giri, Er-Wei Bai



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Nonlinear System Identification Oliver Nelles, 2013-03-09 Written from an engineering point of view this book covers the most common and important approaches for the identification of nonlinear static and dynamic systems The book also provides the reader with the necessary background on optimization techniques making it fully self contained The new edition includes exercises

Nonlinear system identification. 2. Nonlinear system structure identification Robert Haber, László Keviczky, 1999 This is the second part of a two volume handbook presenting a comprehensive overview of nonlinear dynamic system identification The books include many aspects of nonlinear processes such as modelling parameter estimation structure search nonlinearity and model validity tests

Block-oriented Nonlinear System Identification Fouad Giri, Er-Wei Bai, 2010-08-18 Block oriented Nonlinear System Identification deals with an area of research that has been very active since the turn of the millennium The book makes a pedagogical and cohesive presentation of the methods developed in that time These include iterative and over parameterization techniques stochastic and frequency approaches support vector machine subspace and separable least squares methods blind identification method bounded error method and decoupling inputs approach The identification methods are presented by authors who have either invented them or contributed significantly to their development All the important issues e g input design persistent excitation and consistency analysis are discussed The practical relevance of block oriented models is illustrated through biomedical physiological system modelling The book will be of major interest to all those who are concerned with nonlinear system identification whatever their activity areas This is particularly the case for educators in electrical mechanical chemical and biomedical engineering and for practising engineers in process aeronautic aerospace robotics and vehicles control Block oriented Nonlinear System Identification serves as a reference for active researchers new comers industrial and education practitioners and graduate students alike

Nonlinear System Identification — Input-Output Modeling Approach Robert Haber, L. Keviczky, 1999-07-31 The subject of the book is to present the modeling parameter estimation and other aspects of the identification of nonlinear dynamic systems The treatment is restricted to the input output modeling approach Because of the widespread usage of digital computers discrete time methods are preferred Time domain parameter estimation methods are dealt with in detail frequency domain and power spectrum procedures are described shortly The theory is presented from the engineering point of view and a large number of examples of case studies on the modeling and identifications of real processes illustrate the methods Almost all processes are nonlinear if they are considered not merely in a small vicinity of the working point To exploit industrial equipment as much as possible mathematical models are needed which describe the global nonlinear behavior of the process If the process is unknown or if the describing equations are too complex the structure and the parameters can be determined experimentally which is the task of identification The book is divided into seven chapters dealing with the following topics 1 Nonlinear dynamic process models 2 Test signals for identification 3 Parameter estimation

methods 4 Nonlinearity test methods 5 Structure identification 6 Model validity tests 7 Case studies on identification of real processes Chapter I summarizes the different model descriptions of nonlinear dynamical systems *Adaptive Nonlinear System Identification* Tokunbo Ogunfunmi, 2008-11-01 Focuses on System Identification applications of the adaptive methods presented but which can also be applied to other applications of adaptive nonlinear processes Covers recent research results in the area of adaptive nonlinear system identification from the authors and other researchers in the field **Adaptive Nonlinear System Identification** Tokunbo Ogunfunmi, 2007-09-05 Focuses on System Identification applications of the adaptive methods presented but which can also be applied to other applications of adaptive nonlinear processes Covers recent research results in the area of adaptive nonlinear system identification from the authors and other researchers in the field **Nonlinear System Identification** Robert Haber, László Keviczky, 1999 **Nonlinear system identification. 1. Nonlinear system parameter identification** Robert Haber, László Keviczky, 1999 The first of two volumes this handbook presents a comprehensive overview of nonlinear dynamic system parameter identification The volumes cover many aspects of nonlinear processes including modelling parameter estimation structure search nonlinearity and model validity tests

Nonlinear System Identification Stephen A. Billings, 2013-09-23 Nonlinear System Identification NARMAX Methods in the Time Frequency and Spatio Temporal Domains describes a comprehensive framework for the identification and analysis of nonlinear dynamic systems in the time frequency and spatio temporal domains This book is written with an emphasis on making the algorithms accessible so that they can be applied and used in practice Includes coverage of The NARMAX nonlinear autoregressive moving average with exogenous inputs model The orthogonal least squares algorithm that allows models to be built term by term where the error reduction ratio reveals the percentage contribution of each model term Statistical and qualitative model validation methods that can be applied to any model class Generalised frequency response functions which provide significant insight into nonlinear behaviours A completely new class of filters that can move split spread and focus energy The response spectrum map and the study of sub harmonic and severely nonlinear systems Algorithms that can track rapid time variation in both linear and nonlinear systems The important class of spatio temporal systems that evolve over both space and time Many case study examples from modelling space weather through identification of a model of the visual processing system of fruit flies to tracking causality in EEG data are all included to demonstrate how easily the methods can be applied in practice and to show the insight that the algorithms reveal even for complex systems NARMAX algorithms provide a fundamentally different approach to nonlinear system identification and signal processing for nonlinear systems NARMAX methods provide models that are transparent which can easily be analysed and which can be used to solve real problems This book is intended for graduates postgraduates and researchers in the sciences and engineering and also for users from other fields who have collected data and who wish to identify models to help to understand the dynamics of their systems **Nonlinear System Identification by Haar Wavelets** Przemysław

Sliwinski,2012-10-12 In order to precisely model real life systems or man made devices both nonlinear and dynamic properties need to be taken into account The generic black box model based on Volterra and Wiener series is capable of representing fairly complicated nonlinear and dynamic interactions however the resulting identification algorithms are impractical mainly due to their computational complexity One of the alternatives offering fast identification algorithms is the block oriented approach in which systems of relatively simple structures are considered The book provides nonparametric identification algorithms designed for such systems together with the description of their asymptotic and computational properties

Nonlinear System Analysis and Identification from Random Data Julius S. Bendat,1990-03-16 Describes procedures to identify and analyze the properties of many types of nonlinear systems from random data measured at the input and output points of physical systems Improvements are offered in applying older techniques and problems that traditionally have been difficult to analyze are solved by new simpler procedures Formulas are stated for optimum nonlinear system identification in both general models consisting of parallel linear bilinear and trilinear systems and special models consisting of parallel linear finite memory square law systems and finite memory cubic systems New results obtained here show when and how to replace complicated single input output nonlinear models with simpler alternative multiple input single output linear models New error analysis formulas are presented to design experiments and to evaluate estimates obtained from measured data Includes many illustrative examples

Nonlinear System Identification Oliver Nelles,2020-09-09 This book provides engineers and scientists in academia and industry with a thorough understanding of the underlying principles of nonlinear system identification It equips them to apply the models and methods discussed to real problems with confidence while also making them aware of potential difficulties that may arise in practice Moreover the book is self contained requiring only a basic grasp of matrix algebra signals and systems and statistics Accordingly it can also serve as an introduction to linear system identification and provides a practical overview of the major optimization methods used in engineering The focus is on gaining an intuitive understanding of the subject and the practical application of the techniques discussed The book is not written in a theorem proof style instead the mathematics is kept to a minimum and the ideas covered are illustrated with numerous figures examples and real world applications In the past nonlinear system identification was a field characterized by a variety of ad hoc approaches each applicable only to a very limited class of systems With the advent of neural networks fuzzy models Gaussian process models and modern structure optimization techniques a much broader class of systems can now be handled Although one major aspect of nonlinear systems is that virtually every one is unique tools have since been developed that allow each approach to be applied to a wide variety of systems

Nonlinear System Identification Study. Part I. Implementation Feasibility Study E. J. Ewen,GENERAL ELECTRIC CO UTICA N Y AIRCRAFT EQUIPMENT DIV.,1979 The implementation feasibility of a nonlinear system identification technique is evaluated in this report The identification technique uses a black box approach requiring measurements only at

system input and output terminals and is applicable to weakly nonlinear systems whose behavior is adequately characterized by a finite Volterra series Three hardware implementations of the identification technique are postulated and their respective performances are evaluated The impact of A/D converter quantization error non ideal amplifiers multipliers and integrators on performance of the identification process is assessed Performance requirements for each of the three implementations are derived via simulation and analysis The feasibility of implementing the technique using commercially available state of the art components and measurement equipment in each implementation is assessed RADC TR 79 199 Part II A computational complexity study of the identification technique processing to determine the class of nonlinear systems to which the technique can be practically applied will be published at a later date Author

System Identification for Structured Nonlinear Systems Mareike Silke Claassen, 2001 Advanced Nonlinear Strategies for Vibration Mitigation and System Identification Alexander F. Vakakis, 2011-01-27 The papers in this volume address advanced nonlinear topics in the general areas of vibration mitigation and system identification such as methods of analysis of strongly nonlinear dynamical systems techniques and methodologies for interpreting complex multi frequency transitions in damped nonlinear responses new approaches for passive vibration mitigation based on nonlinear targeted energy transfer TET and the associated concept of nonlinear energy sink NES and an overview and assessment of current nonlinear system identification techniques

System Identification Rik Pintelon, Johan Schoukens, 2004-03-22 Electrical Engineering System Identification A Frequency Domain Approach How does one model a linear dynamic system from noisy data This book presents a general approach to this problem with both practical examples and theoretical discussions that give the reader a sound understanding of the subject and of the pitfalls that might occur on the road from raw data to validated model The emphasis is on robust methods that can be used with a minimum of user interaction Readers in many fields of engineering will gain knowledge about Choice of experimental setup and experiment design Automatic characterization of disturbing noise Generation of a good plant model Detection qualification and quantification of nonlinear distortions Identification of continuous and discrete time models Improved model validation tools and from the theoretical side about System identification Interrelations between time and frequency domain approaches Stochastic properties of the estimators Stochastic analysis System Identification A Frequency Domain Approach is written for practicing engineers and scientists who do not want to delve into mathematical details of proofs Also it is written for researchers who wish to learn more about the theoretical aspects of the proofs Several of the introductory chapters are suitable for undergraduates Each chapter begins with an abstract and ends with exercises and examples are given throughout **System Identification 2003** 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

Nonlinear system identification : a state-space approach Vincent Verdult, 2002

Regularized System Identification Gianluigi Pillonetto, Tianshi Chen, Alessandro Chiuso, Giuseppe De Nicolao, Lennart Ljung, 2022-05-13 This open access book provides a comprehensive treatment of recent developments in kernel based identification that are of interest to anyone engaged in learning dynamic systems from data The reader is led step by step into understanding of a novel paradigm that leverages the power of machine learning without losing sight of the system theoretical principles of black box identification The authors reformulation of the identification problem in the light of regularization theory not only offers new insight on classical questions but paves the way to new and powerful algorithms for a variety of linear and nonlinear problems Regression methods such as regularization networks and support vector machines are the basis of techniques that extend the function estimation problem to the estimation of dynamic models Many examples also from real world applications illustrate the comparative advantages of the new nonparametric approach with respect to classic parametric prediction error methods The challenges it addresses lie at the intersection of several disciplines so Regularized System Identification will be of interest to a variety of researchers and practitioners in the areas of control systems machine learning statistics and data science This is an open access book

Mastering System Identification in 100 Exercises Johan Schoukens, Rik Pintelon, Yves Rolain, 2012-04-02 This book enables readers to understand system identification and linear system modeling through 100 practical exercises without requiring complex theoretical knowledge The contents encompass state of the art system identification methods with both time and frequency domain system identification methods covered including the pros and cons of each Each chapter features MATLAB exercises discussions of the exercises accompanying MATLAB downloads and larger projects that serve as potential assignments in this learn by doing resource

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Table of Contents Nonlinear System Identification

1. Understanding the eBook Nonlinear System Identification
 - The Rise of Digital Reading Nonlinear System Identification
 - Advantages of eBooks Over Traditional Books
2. Identifying Nonlinear System Identification
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nonlinear System Identification
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nonlinear System Identification
 - Personalized Recommendations
 - Nonlinear System Identification User Reviews and Ratings
 - Nonlinear System Identification and Bestseller Lists
5. Accessing Nonlinear System Identification Free and Paid eBooks

- Nonlinear System Identification Public Domain eBooks
 - Nonlinear System Identification eBook Subscription Services
 - Nonlinear System Identification Budget-Friendly Options
6. Navigating Nonlinear System Identification eBook Formats
 - ePub, PDF, MOBI, and More
 - Nonlinear System Identification Compatibility with Devices
 - Nonlinear System Identification Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nonlinear System Identification
 - Highlighting and Note-Taking Nonlinear System Identification
 - Interactive Elements Nonlinear System Identification
 8. Staying Engaged with Nonlinear System Identification
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nonlinear System Identification
 9. Balancing eBooks and Physical Books Nonlinear System Identification
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nonlinear System Identification
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Nonlinear System Identification
 - Setting Reading Goals Nonlinear System Identification
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Nonlinear System Identification
 - Fact-Checking eBook Content of Nonlinear System Identification
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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