

Multivariable System Identification for Process Control

Yucai Zhu



Multivariable System Identification For Process Control

Magdi S. Mahmoud, Yuanqing Xia



Multivariable System Identification For Process Control:

Multivariable System Identification For Process Control Y. Zhu, 2001-10-08 Systems and control theory has experienced significant development in the past few decades New techniques have emerged which hold enormous potential for industrial applications and which have therefore also attracted much interest from academic researchers However the impact of these developments on the process industries has been limited The purpose of Multivariable System Identification for Process Control is to bridge the gap between theory and application and to provide industrial solutions based on sound scientific theory to process identification problems The book is organized in a reader friendly way starting with the simplest methods and then gradually introducing more complex techniques Thus the reader is offered clear physical insight without recourse to large amounts of mathematics Each method is covered in a single chapter or section and experimental design is explained before any identification algorithms are discussed The many simulation examples and industrial case studies demonstrate the power and efficiency of process identification helping to make the theory more applicable Matlab™ M files designed to help the reader to learn identification in a computing environment are included

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

Industrial Process Identification and Control Design Tao Liu, Furong Gao, 2011-11-16 Industrial Process Identification and Control Design is devoted to advanced identification and control methods for the operation of continuous time processes both with and without time delay in industrial and chemical engineering practice The simple and practical step or relay feedback test is employed when applying the proposed identification techniques which are classified in terms of common industrial process type open loop stable integrating and

unstable respectively Correspondingly control system design and tuning models that follow are presented for single input single output processes Furthermore new two degree of freedom control strategies and cascade control system design methods are explored with reference to independently improving set point tracking and load disturbance rejection Decoupling multi loop and decentralized control techniques for the operation of multiple input multiple output processes are also detailed Perfect tracking of a desired output trajectory is realized using iterative learning control in uncertain industrial batch processes All the proposed methods are presented in an easy to follow style illustrated by examples and practical applications This book will be valuable for researchers in system identification and control theory and will also be of interest to graduate control students from process chemical and electrical engineering backgrounds and to practising control engineers in the process industry

Process Modelling for Control Benoît Codrons, 2005-08-30 Many process control books focus on control design techniques taking the construction of a process model for granted Process Modelling for Control concentrates on the modelling steps underlying a successful design answering questions like How should I carry out the identification of my process in order to obtain a good model How can I assess the quality of a model with a view to using it in control design How can I ensure that a controller will stabilise a real process and achieve a pre specified level of performance before implementation What is the most efficient method of order reduction to facilitate the implementation of high order controllers Different tools namely system identification model controller validation and order reduction are studied in a framework with a common basis closed loop identification with a controller that is close to optimal will deliver models with bias and variance errors ideally tuned for control design As a result rules are derived applying to all the methods that provide the practitioner with a clear way forward despite the apparently unconnected nature of the modelling tools Detailed worked examples representative of various industrial applications are given control of a mechanically flexible structure a chemical process and a nuclear power plant Process Modelling for Control uses mathematics of an intermediate level convenient to researchers with an interest in real applications and to practising control engineers interested in control theory It will enable working control engineers to improve their methods and will provide academics and graduate students with an all round view of recent results in modelling for control Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

Process Control Jean-Pierre Corriou, 2017-08-17 This reference book can be read at different levels making it a powerful source of information It presents most of the aspects of control that can help anyone to have a synthetic view of control theory and possible applications especially concerning process engineering

Frontiers in Advanced Control Systems Ginalber Luiz Serra, 2012-07-25 This book pretends to bring the state of art research results on advanced control from both the theoretical and practical perspectives The fundamental and advanced research results as

well as the contributions in terms of the technical evolution of control theory are of particular interest This book can serve as a bridge between people who are working on the theoretical and practical research on control theory and facilitate the proposal of development of new control techniques and its applications In addition this book presents educational importance to help students and researchers to know the frontiers of the control technology *Model Based Process Control* T.J.

McAvoy, Y. Arkun, E. Zafiriou, 2014-06-28 Presented at this workshop were mathematical models upon which process control is based and the practical applications of this method of control within industry case studies include examples from the paper and pulp industry materials industry and the chemical industry among others From these presentations emerged a need for further research and development into process control Containing 19 papers these Proceedings will be a valuable reference work for all those involved in the designing of continuous production processes for industry and for the end user involved in the practical application of process control within their manufacturing process *Applied Control Systems Design* Magdi S.

Mahmoud, Yuanqing Xia, 2012-04-13 *Applied Control System Design* examines several methods for building up systems models based on real experimental data from typical industrial processes and incorporating system identification techniques The text takes a comparative approach to the models derived in this way judging their suitability for use in different systems and under different operational circumstances A broad spectrum of control methods including various forms of filtering feedback and feedforward control is applied to the models and the guidelines derived from the closed loop responses are then composed into a concrete self tested recipe to serve as a check list for industrial engineers or control designers System identification and control design are given equal weight in model derivation and testing to reflect their equality of importance in the proper design and optimization of high performance control systems Readers assimilation of the material discussed is assisted by the provision of problems and examples Most of these exercises use MATLAB to make computation and visualization more straightforward *Applied Control System Design* will be of interest to academic researchers for its comparison of different systems models and their response to different control methods and will assist graduate students in learning the practical necessities of advanced control system design The consistent reference to real systems coupled with self learning tools will assist control practitioners who wish to keep up to date with the latest control design ideas

Dynamics and Control of Process Systems 2004 Sirish Shah, John F. MacGregor, 2005-06-10 **Digital Computer Applications to Process Control** R. Isermann, H. Kaltenecker, 2014-05-20 *Digital Computer Applications to Process Control* presents the developments in the application of digital computers to the control of technical processes This book discusses the control principles and includes as well direct feedback and feed forward control as monitoring and optimization of technical processes Organized into five parts encompassing 77 chapters this book begins with an overview of the two categories of microprocessor systems This text then discusses the concept of a sensor controlled robot that adapts to any task assures product quality and eliminates machine tending labor Other chapters consider the ergonomic adaptation of the

human operator's working conditions to his abilities. This book discusses as well the self-tuning regulator for liquid level in the acetic acid evaporator and its actual performance in production. The final chapter deals with algebraic method for deadbeat control of multivariable linear time invariant continuous systems. This book is a valuable resource for electrical and control engineers.

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