

Modelling, Robustness and Sensitivity Reduction in Control Systems

Ruth F. Curtain

XXXIV

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Modelling Robustness And Sensitivity Reduction In Control Systems

Alexander Weinmann



Modelling Robustness And Sensitivity Reduction In Control Systems:

Model Reduction for Control System Design Goro Obinata, Brian D.O. Anderson, 2012-12-06 Modern methods of filter design and controller design often yield systems of very high order posing a problem for their implementation Over the past two decades or so sophisticated methods have been developed to achieve simplification of filters and controllers Such methods often come with easy to use error bounds and in the case of controller simplification methods such error bounds will usually be related to closed loop properties This book is the first comprehensive treatment of approximation methods for filters and controllers It is fully up to date and it is authored by two leading researchers who have personally contributed to the development of some of the methods Balanced truncation Hankel norm reduction multiplicative reduction weighted methods and coprime factorization methods are all discussed The book is amply illustrated with examples and will equip practising control engineers and graduates for intelligent use of commercial software modules for model and controller reduction

Control and Dynamic Systems V50: Robust Control System Techniques and Applications C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory and Applications Volume 50 Robust Control System Techniques and Applications Part 1 of 2 is a two volume sequence devoted to the issues and application of robust control systems techniques This volume is composed of 10 chapters and begins with a presentation of the important techniques for dealing with conflicting design objectives in control systems The subsequent chapters describe the robustness techniques of systems using differential difference equations the design of a wide class of robust nonlinear systems the techniques for dealing with the problems resulting from the use of observers in robust systems design and the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties These topics are followed by discussions of the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties and for incorporating adaptive control techniques into a non adaptive robust control design Other chapters present techniques for achieving exponential and robust stability for a rather general class of nonlinear systems techniques in modeling uncertain dynamics for robust control systems design and techniques for the optimal synthesis of these systems The last chapters provide a generalized eigenproblem solution for both singular and nonsingular system cases These chapters also look into the stability robustness design for discrete time systems This book will be of value to process and systems engineers designers and researchers

Modelling, Robustness and Sensitivity Reduction in Control Systems Ruth F. Curtain, 2012-11-05 Historically one of the basic issues in control systems design has been robustness the ability of a controlled plant to withstand variations in or lack of knowledge of its dynamics Even if the dynamics of a system are accurately known for purposes of implementation it is often desirable to design a control system based on a simplified model Consequently it is essential to be able to guarantee a reasonable performance not only for the nominal plant but also for its neighbouring perturbations this is the issue of robustness Since the beginning of this decade major advances have been

made in this area notably using the H approach this term is meant to cover the solution of sensitivity reduction approximation and model reduction robustness and related control design problems using the mathematics of Hardy spaces and related areas in Harmonic Analysis This book contains the proceedings of the NATO Advanced Research Workshop on Modelling Robustness and Sensitivity Reduction in Control Systems which was held at the University of Groningen December 1986 Its aim was to explore the development of H design techniques and its ramifications in Systems Theory in a unified and systematic way with the emphasis on recent advances and future directions in this fast developing area In particular the following inter related aspects were addressed H mathematical foundations model approximation and robustness in control design optimal sensitivity reduction modelling and system identification and signal processing

Signal Processing and Systems Theory Charles K. Chui, Guanrong Chen, 2012-12-06 Signal Processing and Systems Theory is concerned with the study of H optimization for digital signal processing and discrete time control systems The first three chapters present the basic theory and standard methods in digital filtering and systems from the frequency domain approach followed by a discussion of the general theory of approximation in Hardy spaces AAK theory is introduced first for finite rank operators and then more generally before being extended to the multi input multi output setting This mathematically rigorous book is self contained and suitable for self study The advanced mathematical results derived here are applicable to digital control systems and digital filtering

Uncertain Models and Robust Control Alexander Weinmann, 2012-12-06 Control systems particularly designed to manage uncertainties are called robust control system Choosing appropriate design methods the influence of uncertainties on the closed loop behaviour can be reduced to a large extent Most of the important areas of robust control are covered The aim of the book is to provide an introduction to the theory and methods of robust control system design to present a coherent body of knowledge to clarify and unify presentation of significant derivations and proofs The book contains a thorough treatment of important material of uncertainties and robust control which is scattered throughout the literature

Modelling, Robustness and Sensitivity Reduction in Control Systems Ruth F Curtain, 2014-01-15 *Discrete H^∞ Optimization* Charles K. Chui, Guanrong Chen, 2012-12-06 Discrete H Optimization is concerned with the study of H optimization for digital signal processing and discrete time control systems The first three chapters present the basic theory and standard methods in digital filtering and systems from the frequency domain approach followed by a discussion of the general theory of approximation in Hardy spaces AAK theory is introduced first for finite rank operators and then more generally before being extended to the multi input multi output setting This mathematically rigorous book is self contained and suitable for self study The advanced mathematical results derived here are applicable to digital control systems and digital filtering

Control and Dynamic Systems V51: Robust Control System Techniques and Applications C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory and Application Volume 51 Robust Control System Techniques and Applications Part 2 of 2 discusses system robustness techniques This volume presents

a comprehensive treatment of robust system techniques in nonlinear linear and multilinear interval systems It also covers techniques for dealing with system disturbances system modeling approximations and parameter uncertainties This volume ends by reviewing robustness techniques for systems with structured state space uncertainty This volume will be of great use as a reference source for mechanical and electrical engineers

Robotic Systems for Handling and Assembly

Daniel Schütz, Friedrich M. Wahl, 2010-11-20 Although parallel robots are known to offer many advantages with respect to accuracy dynamics and stiffness major breakthroughs in industrial applications have not yet taken place This is due to a knowledge gap preventing fast and precise execution of industrial handling and assembly tasks This book focuses on the design modeling and control of innovative parallel structures as well as the integration of novel machine elements Special attention is paid to the integration of active components into lightweight links and passive joints In addition new control concepts are introduced to minimize structural vibrations Although the optimization of robot systems itself allows a reduction of cycle times these can be further decreased by improved path planning robot programming and automated assembly planning concepts described by 25 contributions within this book The content of this volume is subdivided into four main parts dealing with Modeling and Design System Implementation Control and Programming as well as Adaptronics and Components This book is aimed at researchers and postgraduates working in the field of parallel robots as well as practicing engineers dealing with industrial robot development and robotic applications

Robust Industrial Control Systems

Michael J. Grimble, 2006-05-01 Robust Industrial Control Systems Optimal Design Approach for Polynomial Systems presents a comprehensive introduction to the use of frequency domain and polynomial system design techniques for a range of industrial control and signal processing applications The solution of stochastic and robust optimal control problems is considered building up from single input problems and gradually developing the results for multivariable design of the later chapters In addition to cataloguing many of the results in polynomial systems needed to calculate industrial controllers and filters basic design procedures are also introduced which enable cost functions and system descriptions to be specified in order to satisfy industrial requirements Providing a range of solutions to control and signal processing problems this book Presents a comprehensive introduction to the polynomial systems approach for the solution of H_2 and H_∞ optimal control problems Develops robust control design procedures using frequency domain methods Demonstrates design examples for gas turbines marine systems metal processing flight control wind turbines process control and manufacturing systems Includes the analysis of multi degrees of freedom controllers and the computation of restricted structure controllers that are simple to implement Considers time varying control and signal processing problems Addresses the control of non linear processes using both multiple model concepts and new optimal control solutions Robust Industrial Control Systems Optimal Design Approach for Polynomial Systems is essential reading for professional engineers requiring an introduction to optimal control theory and insights into its use in the design of real industrial processes Students and researchers in the field

will also find it an excellent reference tool

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