

Rama K. Yedavalli

Robust Control of Uncertain Dynamic Systems

A Linear State Space Approach

 Springer

Control Of Uncertain Dynamic Systems

Felix L. Chernousko



Control Of Uncertain Dynamic Systems:

Robust Control of Uncertain Dynamic Systems Rama K. Yedavalli, 2013-12-05 This textbook aims to provide a clear understanding of the various tools of analysis and design for robust stability and performance of uncertain dynamic systems. In model based control design and analysis mathematical models can never completely represent the real world system that is being modeled and thus it is imperative to incorporate and accommodate a level of uncertainty into the models. This book directly addresses these issues from a deterministic uncertainty viewpoint and focuses on the interval parameter characterization of uncertain systems. Various tools of analysis and design are presented in a consolidated manner. This volume fills a current gap in published works by explicitly addressing the subject of control of dynamic systems from linear state space framework namely using a time domain matrix theory based approach. This book also presents and formulates the robustness problem in a linear state space model framework. Illustrates various systems level methodologies with examples and applications drawn from aerospace electrical and mechanical engineering. Provides connections between Lyapunov based matrix approach and the transfer function based polynomial approaches. **Robust Control of Uncertain Dynamic Systems: A Linear State Space Approach** is an ideal book for first year graduate students taking a course in robust control in aerospace mechanical or electrical engineering.

Control of Uncertain Dynamic Systems Shankar P. Bhattacharyya, Lee H. Keel, 2020-09-23 This book is a collection of 34 papers presented by leading researchers at the International Workshop on Robust Control held in San Antonio Texas in March 1991. The common theme tying these papers together is the analysis, synthesis and design of control systems subject to various uncertainties. The papers describe the latest results in parametric uncertainty, H_∞ control and Quantitative Feedback Theory (QFT). The book is the first to bring together all the diverse points of view addressing the robust control problem and should strongly influence development in the robust control field for years to come. For this reason control theorists, engineers and applied mathematicians should consider it a crucial acquisition for their libraries.

Control of Uncertain Dynamic Systems S. P. Bhattacharyya, L. H. Keel, 1991

Adaptive Control of Dynamic Systems with Uncertainty and Quantization Jing Zhou, Lantao Xing, Changyun Wen, 2021-12-14 This book presents a series of innovative technologies and research results on adaptive control of dynamic systems with quantization uncertainty and nonlinearity including the theoretical success and practical development such as the approaches for stability analysis, the compensation of quantization, the treatment of subsystem interactions and the improvement of system tracking and transient performance. Novel solutions by adopting backstepping design tools to a number of hotspots and challenging problems in the area of adaptive control are provided. In the first three chapters the general design procedures and stability analysis of backstepping controllers and the basic descriptions and properties of quantizers are introduced as preliminary knowledge for this book. In the remainder of this book adaptive control schemes are introduced to compensate for the effects of input quantization, state quantization, both input and state output

quantization for uncertain nonlinear systems and are applied to helicopter systems and DC Microgrid Discussion remarks are provided in each chapter highlighting new approaches and contributions to emphasize the novelty of the presented design and analysis methods Simulation results are also given in each chapter to show the effectiveness of these methods This book is helpful to learn and understand the fundamental backstepping schemes for state feedback control and output feedback control It can be used as a reference book or a textbook on adaptive quantized control for students with some background in feedback control systems Researchers graduate students and engineers in the fields of control information and communication electrical engineering mechanical engineering computer science and others will benefit from this book

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

Robust Control of Nonlinear Uncertain Systems Zhihua Qu, 1998-04-29 This timely work presents the definitive treatment of stability analysis and robust control design for nonlinear uncertain systems While other books on the subject deal with robust control in linear systems this is the first book to tackle robust control design for such nonlinear entities as power systems robotics and more It combines examples proofs and applications clearly showing how to build high performance and better control into systems that are too complex to be modeled accurately A unique feature of this book is its Lyapunov based approach to control design which is the only universal approach for nonlinear systems The Lyapunov direct method is used here to develop all design procedures to correlate leading techniques in the field to the structural properties of uncertain systems and to compare robust and nonrobust types of controls such as adaptive control learning control and optimal control The subject is introduced with a self contained treatment of the nonlinear stability theory

originally proposed by Lyapunov and LaSalle Emphasizing the basics the introductory chapters incorporate three types of solutions stability concepts and various theorems The main body of the text offers a comprehensive treatment for current design methods including state space robust control designs properties of various robust controllers input output control and discrete robust control designs In *Robust Control of Nonlinear Uncertain Systems* author Zhihua Qu presents the complete set of control design procedures for nonlinear uncertain systems including backward recursive design forward recursive design recursive interlacing design feedback linearization nonlinear optimal control and sub optimal control Also featured here is the breakthrough recursive interlacing design that facilitates robust control for uncertain systems with all cascaded feedback and feedforward dynamics Throughout Professor Qu presents the pros and cons of specific methods rationales for choosing particular design parameters and tips on questions of stability performance and systems structure For engineers and graduate students in mechanical electrical and aerospace engineering *Robust Control of Nonlinear Uncertain Systems* imparts the technical know how for effective design explores key theoretical issues in control and provides insight into future trends in the field

Structural Dynamic Systems Computational Techniques and Optimization Cornelius T.

Leondes,1999 Conventional seismic design has been based on structural strength in the initial design of structures resulting in lateral force resisting systems with sufficient strength to be able to absorb and dissipate the seismic For important structures such as urban high speed road systems high rise buildings hospitals airports and other essential structures which must be quite functional after an earthquake modern seismic structural design techniques have been developed with a view toward eliminating or significantly reducing seismic damage to such structures This volume is a comprehensive treatment of the issues involved in modern seismic design techniques for structure with a view to significantly enhancing their capability of surviving earthquakes to an adequate degree i e enhancing the ability of structural systems to withstand high level earthquakes

Resilient Control of Uncertain Dynamical Systems Magdi S. Mahmoud,2004-05-18 This monograph provides a complete description of resilient control theory It unifies the methods for developing resilient controllers and filters for a class of uncertain dynamical systems and reports recent advances in design methodologies The book presents an introductory and comprehensive treatment of resilient controller design methods placing great emphasis on the derivation of necessary and sufficient design conditions and on the use of linear matrix inequalities as a convenient computational tool The book can be used as a graduate level textbook in control engineering or applied mathematics as well as a reference for practicing engineers researchers and students

The Design of Control Laws for Uncertain Dynamic Systems Using Stochastic Robustness Metrics Christopher Ian Marrison,1995 Robust Control Design for Uncertain Nonlinear Dynamic Systems Myung-Chul Han,1992 *Control of Uncertain Systems with Bounded Inputs* Sophie Tarbouriech,1997-07-04

In practical control problems many constraints have to be handled in order to design controllers which operate in a real environment By combining results on robust control and saturating control this book attempts to provide positive help for

practical situations and as one of the first books to merge the two control fields it should generate considerable interest in scientific academic circles. The ten chapters which deal with stabilization and control of both linear and nonlinear systems are each independent in their approach; some deal purely with theoretical results whilst others concentrate on ways in which the theory can be applied. The book's unity is secured by the desire to formulate control design requirements through constraints on input and model uncertainty description. Estimators for Uncertain Dynamic Systems A.I.

Matasov, 2012-12-06. When solving the control and design problems in aerospace and naval engineering, energetics, economics, biology, etc., we need to know the state of investigated dynamic processes. The presence of inherent uncertainties in the description of these processes and of noises in measurement devices leads to the necessity to construct the estimators for corresponding dynamic systems. The estimators recover the required information about system state from measurement data. An attempt to solve the estimation problems in an optimal way results in the formulation of different variational problems. The type and complexity of these variational problems depend on the process model, the model of uncertainties, and the estimation performance criterion. A solution of a variational problem determines an optimal estimator. However, there exist at least two reasons why we use nonoptimal estimators. The first reason is that the numerical algorithms for solving the corresponding variational problems can be very difficult for numerical implementation. For example, the dimension of these algorithms can be very high. Robust Control Design for Uncertain Dynamic Systems Ye-Hwa Chen, Georgia Institute of Technology. Mechanical Engineering. Project E-25-678, 1990. Journal of Dynamic Systems, Measurement, and Control, 2001. Publishes theoretical and applied original papers in dynamic systems. Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory. Applied papers include modeling, simulation, and corroboration of theory with emphasis on demonstrated practicality.

Robustness of Dynamic Systems with Parameter Uncertainties Mohamed Mansour, Silvano Balemi, Werner Truöl, 2012-12-06. Robust Control is one of the fastest growing and promising areas of research today. In many practical systems, there exist uncertainties which have to be considered in the analysis and design of control systems. In the last decade, methods were developed for dealing with dynamic systems with unstructured uncertainties such as H_∞ and I optimal control. For systems with parameter uncertainties, the seminal paper of V. L. Kharitonov has triggered a large amount of very promising research. An international workshop dealing with all aspects of robust control was successfully organized by S. P. Bhattacharyya and L. H. Keel in San Antonio, Texas, USA, in March 1991. We organized the second international workshop in this area in Ascona, Switzerland, in April 1992. However, this second workshop was restricted to robust control of dynamic systems with parameter uncertainties, with the objective to concentrate on some aspects of robust control. This book contains a collection of papers presented at the International Workshop on Robust Control held at the Centro Stefano Franscini, Monte Verita, Ascona, Switzerland, on April 12-17, 1992, as well as a list of open problems presented during a discussion session at

the workshop Thirtyfive leading researchers from all over the world working in the area of robust control of dynamic systems with parameter uncertainties were invited to present their recent results and to discuss with their colleagues the recent advances in this field

Robust Controller Design for Uncertain Dynamic Systems Using Approximate Models D. H. Owens,A. Chotai,1981

State Estimation for Dynamic Systems Felix L. Chernousko,1993-11-09 State Estimation for Dynamic Systems presents the state of the art in this field and discusses a new method of state estimation The method makes it possible to obtain optimal two sided ellipsoidal bounds for reachable sets of linear and nonlinear control systems with discrete and continuous time The practical stability of dynamic systems subjected to disturbances can be analyzed and two sided estimates in optimal control and differential games can be obtained The method described in the book also permits guaranteed state estimation filtering for dynamic systems in the presence of external disturbances and observation errors Numerical algorithms for state estimation and optimal control as well as a number of applications and examples are presented The book will be an excellent reference for researchers and engineers working in applied mathematics control theory and system analysis It will also appeal to pure and applied mathematicians control engineers and computer programmers

Variable-Structure Approaches Andreas Rauh,Luise Senkel,2016-05-17 This edited book aims at presenting current research activities in the field of robust variable structure systems The scope equally comprises highlighting novel methodological aspects as well as presenting the use of variable structure techniques in industrial applications including their efficient implementation on hardware for real time control The target audience primarily comprises research experts in the field of control theory and nonlinear dynamics but the book may also be beneficial for graduate students

Deterministic Control of Uncertain Systems Alan S. I. Zinober,1990 Includes sections on Sliding mode control with switching command devices Hyperplane design and CAD of variable structure control systems Variable structure controllers for robots The hyperstability approach to VSCS design Nonlinear continuous feedback for robust tracking Control of uncertain systems with neglected dynamics Control of infinite dimensional plants

Robust control synthesis for uncertain dynamical systems Kuk Whan Byun,1990

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