

Robust Nonlinear Control Design

State-Space and
Lyapunov Techniques

Randy A. Freeman
Petar V. Kokotović

Robust Nonlinear Control Design State Space And Lyapunov Techniques Systems Control Foundations Applications

Isabelle Fantoni, Rogelio Lozano



Robust Nonlinear Control Design State Space And Lyapunov Techniques Systems Control Foundations Applications:

Robust Nonlinear Control Design Randy A. Freeman, Petar V. Kokotovic, 1996 **Robust Nonlinear Control Design** Randy A. Freeman, Petar V. Kokotovic, 2009-05-21 The purpose of the book is to summarize Lyapunov design techniques for nonlinear systems and to raise important issues concerning large signal robustness and performance The authors have been the first to address some of these issues and they report their findings in this text For example they identify two potential sources of excessive control effort in Lyapunov design techniques and show how such effort can be greatly reduced The researcher who wishes to enter the field of robust nonlinear control could use this book as a source of new research topics For those already active in the field the book may serve as a reference to a recent body of significant work Finally the design engineer faced with a nonlinear control problem will benefit from the techniques presented here Set-Theoretic Methods in Control Franco Blanchini, Stefano Miani, 2015-07-02 The second edition of this monograph describes the set theoretic approach for the control and analysis of dynamic systems both from a theoretical and practical standpoint This approach is linked to fundamental control problems such as Lyapunov stability analysis and stabilization optimal control control under constraints persistent disturbance rejection and uncertain systems analysis and synthesis Completely self contained this book provides a solid foundation of mathematical techniques and applications extensive references to the relevant literature and numerous avenues for further theoretical study All the material from the first edition has been updated to reflect the most recent developments in the field and a new chapter on switching systems has been added Each chapter contains examples case studies and exercises to allow for a better understanding of theoretical concepts by practical application The mathematical language is kept to the minimum level necessary for the adequate formulation and statement of the main concepts yet allowing for a detailed exposition of the numerical algorithms for the solution of the proposed problems Set Theoretic Methods in Control will appeal to both researchers and practitioners in control engineering and applied mathematics It is also well suited as a textbook for graduate students in these areas Praise for the First Edition This is an excellent book full of new ideas and collecting a lot of diverse material related to set theoretic methods It can be recommended to a wide control community audience B T Polyak Mathematical Reviews This book is an outstanding monograph of a recent research trend in control It reflects the vast experience of the authors as well as their noticeable contributions to the development of this field It is highly recommended to PhD students and researchers working in control engineering or applied mathematics The material can also be used for graduate courses in these areas Octavian Pastravanu Zentralblatt MATH **Non-linear Control for Underactuated Mechanical Systems** Isabelle Fantoni, Rogelio Lozano, 2012-12-06 This book deals with the application of modern control theory to some important underactuated mechanical systems from the inverted pendulum to the helicopter model It will help readers gain experience in the modelling

of mechanical systems and familiarize with new control methods for non linear systems

Theory and Algorithms for Cooperative Systems Don A. Grundel, 2004 Over the past several years cooperative control and optimization have increasingly played a larger and more important role in many aspects of military sciences biology communications robotics and decision making At the same time cooperative systems are notoriously difficult to model analyze and solve OCo while intuitively understood they are not axiomatically defined in any commonly accepted manner The works in this volume provide outstanding insights into this very complex area of research They are the result of invited papers and selected presentations at the Fourth Annual Conference on Cooperative Control and Optimization held in Destin Florida November 2003 This book has been selected for coverage in OCo Index to Scientific On the Performance of Heuristics for Broadcast Scheduling C Commander et al Coupled Detection Rates An Introduction D Jeffcoat Decentralized Receding Horizon Control for Multiple UAVs Y Kuwata Multitarget Sensor Management of Dispersed Mobile Sensors R Mahler K Means Clustering Using Entropy Minimization A Okafor Possibility Reasoning and the Cooperative Prisoner s Dilemma H Pfister Coordinating Very Large Groups of Wide Area Search Munitions P Scerri et al A Vehicle Following Methodology for UAV Formations S Spry et al Decentralized Optimization via Nash Bargaining S Waslander et al and other papers Readership Graduate students and researchers in optimization and control computer science and engineering

Control and Nonlinearity Jean-Michel Coron, 2007 This book presents methods to study the controllability and the stabilization of nonlinear control systems in finite and infinite dimensions The emphasis is put on specific phenomena due to nonlinearities In particular many examples are given where nonlinearities turn out to be essential to get controllability or stabilization Various methods are presented to study the controllability or to construct stabilizing feedback laws The power of these methods is illustrated by numerous examples coming from such areas as celestial mechanics fluid mechanics and quantum mechanics The book is addressed to graduate students in mathematics or control theory and to mathematicians or engineers with an interest in nonlinear control systems governed by ordinary or partial differential equations

Introduction to Nonlinear Control Christopher M. Kellett, Philipp Braun, 2023-06-27 An introductory text on the analysis control and estimation of nonlinear systems appropriate for advanced undergraduate and graduate students This self contained and accessible introduction to the concepts and techniques used for nonlinear feedback systems offers a holistic treatment suitable for use in both advanced undergraduate and graduate courses students need only some familiarity with differential equations and linear algebra to understand the material presented The text begins with an overview of stability and Lyapunov methods for nonlinear systems with Lyapunov s second method revisited throughout the book as a connective thread Other introductory chapters cover linear systems frequency domain methods and discrete time systems Building on this background material the book provides a broad introduction to the basic ideas underpinning major themes of research in nonlinear control including input to state stability sliding mode control adaptive control feedback linearization and robust output regulation Chapters also cover observer

design and estimation for nonlinear systems The text is notable for its coverage of nonlinear model predictive control and its introduction to the use of linear matrix inequalities and semidefinite programming coupled with their use in modern antiwindup designs First text on nonlinear control appropriate for undergraduates Suitable both for students preparing for rigorous graduate study and for those entering technical fields outside of academia Unique in its coverage of recent research topics Pedagogical features including extensive chapter summaries examples and appendixes with definitions results and MATLAB applications

Uncertainty in Complex Networked Systems Tamer Başar, 2018-12-14 The chapters in this volume and the volume itself celebrate the life and research of Roberto Tempo a leader in the study of complex networked systems their analysis and control under uncertainty and robust designs Contributors include authorities on uncertainty in systems robustness networked and network systems social networks distributed and randomized algorithms and multi agent systems all fields that Roberto Tempo made vital contributions to Additionally at least one author of each chapter was a research collaborator of Roberto Tempo s This volume is structured in three parts The first covers robustness and includes topics like time invariant uncertainties robust static output feedback design and the uncertainty quartet The second part is focused on randomization and probabilistic methods which covers topics such as compressive sensing and stochastic optimization Finally the third part deals with distributed systems and algorithms and explores matters involving mathematical sociology fault diagnoses and PageRank computation Each chapter presents exposition provides new results and identifies fruitful future directions in research This book will serve as a valuable reference volume to researchers interested in uncertainty complexity robustness optimization algorithms and networked systems

Robust Nonlinear Control Design Randy A. Freeman, Petar Kokotovic, 1966 *Control of Complex Systems* Karl J. Aström, Pedro Albertos, Mogens Blanke, Alberto Isidori, Walther Schaufelberger, Ricardo Sanz, 2011-06-28 The world of artificial systems is reaching complexity levels that escape human understanding Surface traffic electricity distribution air planes mobile communications etc are examples that demonstrate that we are running into problems that are beyond classical scientific or engineering knowledge There is an ongoing world wide effort to understand these systems and develop models that can capture its behavior The reason for this work is clear if our lack of understanding deepens we will lose our capability to control these systems and make them behave as we want Researchers from many different fields are trying to understand and develop theories for complex man made systems This book presents research from the perspective of control and systems theory The book has grown out of activities in the research program Control of Complex Systems COSY The program has been sponsored by the European Science Foundation ESF which for 25 years has been one of the leading players in stimulating scientific research ESF is a European association of more than 60 leading national science agencies spanning more than 20 countries ESF covers has standing committees in Medical Sciences Life and Environmental Sciences Physical and Engineering Sciences Humanities and Social Sciences The COSY program was ESF s first activity in the Engineering

Sciences The program run for a period of five years starting January 1995 *Control Systems Theory with Engineering Applications* Sergey E. Lyshevski, 2012-12-06 Dynamics systems living organisms electromechanical and industrial systems chemical and technological processes market and ecology and so forth can be considered and analyzed using information and systems theories For example adaptive human behavior can be studied using automatic feedback control As an illustrative example the driver controls a car changing the speed and steering wheels using incoming information such as traffic and road conditions This book focuses on the most important and manageable topics in applied multivariable control with application to a wide class of electromechanical dynamic systems A large spectrum of systems familiar to electrical mechanical and aerospace students engineers and scholars are thoroughly studied to build the bridge between theory and practice as well as to illustrate the practical application of control theory through illustrative examples It is the author's goal to write a book that can be used to teach undergraduate and graduate classes in automatic control and nonlinear control at electrical mechanical and aerospace engineering departments The book is also addressed to engineers and scholars and the examples considered allow one to implement the theory in a great variety of industrial systems The main purpose of this book is to help the reader grasp the nature and significance of multivariable control **Partially Observable Linear Systems Under Dependent Noises** Agamirza E. Bashirov, 2003-01-23 This book discusses the methods of fighting against noise It can be regarded as a mathematical view of specific engineering problems with known and new methods of control and estimation in noisy media From the reviews An excellent reference on the complete sets of equations for the optimal controls and for the optimal filters under wide band noises and shifted white noises and their possible application to navigation of spacecraft

MATHEMATICAL REVIEWS Sub-Riemannian Geometry André Bellaïche, Jean-Jaques Risler, 1996-09-26 Sub Riemannian geometry also known as Carnot geometry in France and non holonomic Riemannian geometry in Russia has been a full research domain for fifteen years with motivations and ramifications in several parts of pure and applied mathematics namely control theory classical mechanics Riemannian geometry of which sub Riemannian geometry constitutes a natural generalization and where sub Riemannian metrics may appear as limit cases diffusion on manifolds analysis of hypoelliptic operators Cauchy Riemann or CR geometry Although links between these domains had been foreseen by many authors in the past it is only in recent years that sub Riemannian geometry has been recognized as a possible common framework for all these topics This book provides an introduction to sub Riemannian geometry and presents the state of the art and open problems in the field It consists of five coherent and original articles by the leading specialists Andr Bella che The tangent space in sub Riemannian geometry Mikhael Gromov Carnot Carathéodory spaces seen from within Richard Montgomery Survey of singular geodesics Hector J Sussmann A cornucopia of four dimensional abnormal sub Riemannian minimizers Jean Michel Coron Stabilization of controllable systems Optimal Trajectory Tracking of Nonlinear Dynamical Systems Jakob Löber, 2016-12-20 By establishing an alternative foundation of control theory this thesis represents a significant advance in

the theory of control systems of interest to a broad range of scientists and engineers While common control strategies for dynamical systems center on the system state as the object to be controlled the approach developed here focuses on the state trajectory The concept of precisely realizable trajectories identifies those trajectories that can be accurately achieved by applying appropriate control signals The resulting simple expressions for the control signal lend themselves to immediate application in science and technology The approach permits the generalization of many well known results from the control theory of linear systems e g the Kalman rank condition to nonlinear systems The relationship between controllability optimal control and trajectory tracking are clarified Furthermore the existence of linear structures underlying nonlinear optimal control is revealed enabling the derivation of exact analytical solutions to an entire class of nonlinear optimal trajectory tracking problems The clear and self contained presentation focuses on a general and mathematically rigorous analysis of controlled dynamical systems The concepts developed are visualized with the help of particular dynamical systems motivated by physics and chemistry

Mathematical Reviews ,2003 Robust Nonlinear Control Design Randy A. Freeman,Petar V. Kokotović,1996-01-01 Verzeichnis lieferbarer Bücher ,1999 *Rundbrief der Gesellschaft für Angewandte Mathematik und Mechanik* Gesellschaft für Angewandte Mathematik und Mechanik,1996 *Innovations and Applications of Artificial Intelligence in Electrical and Electronics Engineering* Mohammed WADI,Mohammed SALEMDEEB,Mohammed JOUDA,2025-03-23 Advances in Gain-Scheduling and Fault Tolerant Control Techniques Damiano Rotondo,2017-10-14

This thesis reports on novel methods for gain scheduling and fault tolerant control FTC It begins by analyzing the connection between the linear parameter varying LPV and Takagi Sugeno TS paradigms This is then followed by a detailed description of the design of robust and shifting state feedback controllers for these systems Furthermore it presents two approaches to fault tolerant control the first is based on a robust polytopic controller design while the second involves a reconfiguration of the reference model and the addition of virtual actuators into the loop In addition the thesis offers a thorough review of the state of the art in gain scheduling and fault tolerant control with a special emphasis on LPV and TS systems

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