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Bernard Brogliato



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Stabilization of Nonlinear Uncertain Systems Miroslav Krstic, Hua Deng, 1998-05-21 This monograph presents the fundamentals of global stabilization and optimal control of nonlinear systems with uncertain models It offers a unified view of deterministic disturbance attenuation stochastic control and adaptive control for nonlinear systems The book addresses researchers in the areas of robust and adaptive nonlinear control nonlinear H infinity stochastic control and other related areas of control and dynamical systems theory

Stabilization of Nonlinear Uncertain Systems Miroslav Krstić, 1998

New Results on Practical Stability for Linear and Nonlinear Uncertain Systems Laura Celentano, 2012 **Adaptive**

Control of Dynamic Systems with Uncertainty and Quantization Jing Zhou, Lantao Xing, Changyun Wen, 2021-12-15 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

Stabilization and H_∞ Control of Switched Dynamic Systems Jun Fu, Ruicheng Ma, 2020-09-24 This book presents several novel constructive methodologies for global stabilization and H infinity control in switched dynamic systems by using the systems structure information The main features of these new approaches are twofold i Novel Lyapunov functions are constructed and new switching strategies are designed to guarantee global finite time stabilization of the closed loop switched dynamic systems while ii without posing any internal stability requirements on subsystems the standard H infinity control problem of the switched dynamic systems is solved by means of dwell time switching techniques Systematically presenting constructive methods for analyzing and synthesizing switched systems the content is of great significance to theoretical research and

practical applications involving switched systems alike The book provides a unified framework for stability analysis stabilization and H infinity control of switched systems making it a valuable resource for researchers and graduate students who want to learn about the state of the art in the analysis and synthesis of switched systems as well as recent advances in switched linear systems In addition it offers a wealth of cutting edge constructive methods and algorithm designs for researchers who work with switched dynamic systems and graduate students of control theory and control engineering

Analysis and Decision Making in Uncertain Systems Zdzislaw Bubnicki, 2004-01-09 A unified and systematic description of analysis and decision problems within a wide class of uncertain systems described by traditional mathematical methods and by relational knowledge representations Prof Bubnicki takes a unique approach to stability and stabilization of uncertain systems

Robust Control Design Using H- ∞ Methods Ian R. Petersen, Valery A. Ugrinovskii, Andrey V. Savkin, 2012-12-06 This is a unified collection of important recent results for the design of robust controllers for uncertain systems primarily based on H ∞ control theory or its stochastic counterpart risk sensitive control theory Two practical applications are used to illustrate the methods throughout

Identification and Control Using Volterra Models F.J.III Doyle, R.K. Pearson, B.A. Ogunnaike, 2012-12-06 Much has been written about the general difficulty of developing the models required for model based control of processes whose dynamics exhibit significant nonlinearity for further discussion and references see Chapter 1 In fact the development of these models stands as a significant practical impediment to widespread industrial application of techniques like nonlinear model predictive control NMPC whose linear counterpart has profoundly changed industrial practice One of the reasons for this difficulty lies in the enormous variety of nonlinear models different classes of which can be less similar to each other than they are to the class of linear models Consequently it is a practical necessity to restrict consideration to one or a few specific nonlinear model classes if we are to succeed in developing understanding and using nonlinear models as a basis for practical control schemes Because they represent a highly structured extension of the class of linear finite impulse response FIR models on which industrially popular linear MPC implementations are based this book is devoted to the class of discrete time Volterra models and a few other closely related nonlinear model classes The objective of this book is to provide a useful reference for researchers in the field of process control and closely related areas collecting a reasonably wide variety of results that may be found in different parts of the large literature that exists on the general topics of process control nonlinear systems theory statistical time series models biomedical engineering and digital signal processing among others

Fault Diagnosis and Fault-Tolerant Control Based on Adaptive Control Approach Qikun Shen, Bin Jiang, Peng Shi, 2017-02-14 This book provides recent theoretical developments in and practical applications of fault diagnosis and fault tolerant control for complex dynamical systems including uncertain systems linear and nonlinear systems Combining adaptive control technique with other control methodologies it investigates the problems of fault diagnosis and fault tolerant control for uncertain dynamic systems with or

without time delay As such the book provides readers a solid understanding of fault diagnosis and fault tolerant control based on adaptive control technology Given its depth and breadth it is well suited for undergraduate and graduate courses on linear system theory nonlinear system theory fault diagnosis and fault tolerant control techniques Further it can be used as a reference source for academic research on fault diagnosis and fault tolerant control and for postgraduates in the field of control theory and engineering

Dynamics and Control George Leitmann, Firdaus E. Udwadia, A V

Kryazhinskii, 2020-09-10 This multi authored volume presents selected papers from the Eighth Workshop on Dynamics and Control Many of the papers represent significant advances in this area of research and cover the development of control methods including the control of dynamical systems subject to mixed constraints on both the control and state variables and the development of a control design method for flexible manipulators with mismatched uncertainties Advances in dynamic systems are presented particularly in game theoretic approaches and also the applications of dynamic systems methodology to social and environmental problems for example the concept of virtual biospheres in modeling climate change in terms of dynamical systems

Sliding Modes after the first Decade of the 21st Century Leonid Fridman, Jaime Moreno, Rafael

Iriarte, 2011-09-10 The book presents the newest results of the major world research groups working in the area of Variable Structure Systems and Sliding Mode Control VSS SMC The research activity of these groups is coordinated by the IEEE Technical Committee on Variable Structure Systems VSS and Sliding Modes SM The presented results include the reports of the research groups collaborating in a framework of the Uni n European Union M xico project of Fondo de Cooperaci n Internacional en Ciencia y Tecnolog a FONCICyT 93302 titled Automatization and Monitoring of Energy Production Processes via Sliding Mode Control The book starts with the overview of the sliding mode control concepts and algorithms that were developed and discussed in the last two decades The research papers are combined in three sections Part I VSS and SM Algorithms and their Analysis Part II SMC Design Part III Applications of VSS and SMC The book will be of interests of engineers researchers and graduate students working in the area of the control systems design Novel mathematical theories and engineering concepts of control systems are rigorously discussed and supported by numerous applications to practical tasks

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

Nonsmooth Mechanics Bernard Brogliato, 2012-12-06 Thank you for opening the second edition of this monograph which is devoted to the study of a class of nonsmooth dynamical systems of the general form $\ddot{x} = f(x, \dot{x}, t)$

where $x \in \mathbb{R}^n$ is the system's state vector $u \in \mathbb{R}^m$ is the vector of inputs and the function f represents a unilateral constraint that is imposed on the state. More precisely we shall restrict ourselves to a subclass of such systems namely mechanical systems subject to unilateral constraints on the position whose dynamical equations may be in a first instance written as $\ddot{q} = -g(q)$ where $q \in \mathbb{R}^n$ is the vector of generalized coordinates of the system and u is an input or controller that generally involves a state feedback loop $u = -K(q, \dot{q})$ with $K \in \mathbb{R}^{m \times (n+1)}$ when the controller is a dynamic state feedback. Mechanical systems composed of rigid bodies interacting fall into this subclass. A general property of systems as in (1) and (2) is that their solutions are nonsmooth with respect to time. Nonsmoothness arises primarily from the occurrence of impacts or collisions or percussions in the dynamical behaviour when the trajectories attain the surface $f(x, t) = 0$. They are necessary to keep the trajectories within the subspace $f(x, t) \leq 0$ of the system's state space.

Decentralized Systems with Design Constraints Magdi S. Mahmoud, 2011-02-24 Decentralized Control and Filtering provides a rigorous framework for examining the analysis, stability and control of large scale systems addressing the difficulties that arise because dimensionality, information structure constraints, parametric uncertainty and time delays. This monograph serves three purposes: it reviews past methods and results from a contemporary perspective; it examines, presents trends and approaches and to provide future possibilities; and it investigates robust, reliable and/or resilient decentralized design methods based on a framework of linear matrix inequalities. As well as providing an overview of large scale systems theories from the past several decades, the author presents key modern concepts and efficient computational methods. Representative numerical examples, end of chapter problems and typical system applications are included and theoretical developments and practical applications of large scale dynamical systems are discussed in depth.

Nonlinear Control Systems Design 1995 A.J. Krener, D.Q. Mayne, 2016-01-22 The series of IFAC Symposia on Nonlinear Control Systems provides the ideal forum for leading researchers and practitioners who work in the field to discuss and evaluate the latest research and developments. This publication contains the papers presented at the 3rd IFAC Symposium in the series which was held in Tahoe City, California, USA.

Hierarchical Nonlinear Switching Control Design with Applications to Propulsion Systems Alexander Leonessa, Wassim M. Haddad, Vijay Sekhar Chellaboina, 2000-07-17 This book presents a general nonlinear control design methodology for nonlinear uncertain dynamical systems. Specifically, a hierarchical nonlinear switching control framework is developed that provides a rigorous alternative to gain scheduling control for general nonlinear uncertain systems. The proposed switching control design framework accounts for actuator saturation constraints as well as system modeling uncertainty. The efficacy of the control design approach is extensively demonstrated on aeroengine propulsion systems. In particular, dynamic models for rotating stall and surge in axial and centrifugal flow compression systems that lend themselves to the application of nonlinear control design are developed and the hierarchical switching control framework is then applied to control the aerodynamic instabilities of rotating stall and surge. For the researcher who is entering the field of hierarchical

switching robust control this book provides a plethora of new research directions Alternatively for researchers already active in the field of hierarchical control and hybrid systems this book can be used as a reference to a significant body of recent work Furthermore control practitioners involved with nonlinear control design can immensely benefit from the novel nonlinear stabilization techniques presented in the book

Nonlinear Control of Dynamic Networks Tengfei Liu,Zhong-Ping Jiang,David J. Hill,2018-09-03 Significant progress has been made on nonlinear control systems in the past two decades However many of the existing nonlinear control methods cannot be readily used to cope with communication and networking issues without nontrivial modifications For example small quantization errors may cause the performance of a well designed nonlinear control system to deteriorate Motivated by the need for new tools to solve complex problems resulting from smart power grids biological processes distributed computing networks transportation networks robotic systems and other cutting edge control applications *Nonlinear Control of Dynamic Networks* tackles newly arising theoretical and real world challenges for stability analysis and control design including nonlinearity dimensionality uncertainty and information constraints as well as behaviors stemming from quantization data sampling and impulses Delivering a systematic review of the nonlinear small gain theorems the text Supplies novel cyclic small gain theorems for large scale nonlinear dynamic networks Offers a cyclic small gain framework for nonlinear control with static or dynamic quantization Contains a combination of cyclic small gain and set valued map designs for robust control of nonlinear uncertain systems subject to sensor noise Presents a cyclic small gain result in directed graphs and distributed control of nonlinear multi agent systems with fixed or dynamically changing topology Based on the authors recent research *Nonlinear Control of Dynamic Networks* provides a unified framework for robust quantized and distributed control under information constraints Suggesting avenues for further exploration the book encourages readers to take into consideration more communication and networking issues in control designs to better handle the arising challenges

Trends in Control Alberto Isidori,2012-12-06 This book contains the text of the plenary lectures and the mini courses of the European Control Conference ECC 95 held in Rome Italy September 5 September 8 1995 In particular the book includes nine essays in which a selected number of prominent authorities present their views on some of the most recent developments in the theory and practice of control systems design and three self contained sets of lecture notes Some of the essays are focused on the topic of robust control The article by J Ackermann describes how to robustly control the rotational motions of a vehicle to the purpose of simplifying the driver s task The contribution by H K wakernaak presents a detailed discussion of the requirements that performance and robustness impose on control systems design and of the symmetric roles of sensitivity and complementary sensitivity functions The article by P Boulet B A Francis P C Hughes and T Hong describes an experimental testbed facility called Daisy whose dynamics emulate those of a real large flexible space structure and whose purpose is to test advanced identification and control design methods The article of K Glover discusses recent advances in uncertain system modeling analysis and design with ref erence to a flight control case study

that has been test flown The other essays describe advances in fundamental problems of control theory The article by V A Yakubovich is a survey of certain new infinite horizon linear quadratic optimization problems The contribution by A S

Active Vibration Control and Stability Analysis of Flexible Beam Systems Wei He,Jinkun Liu,2018-12-17 This book presents theoretical explorations of several fundamental problems in the dynamics and control of flexible beam systems By integrating fresh concepts and results to form a systematic approach to control it establishes a basic theoretical framework It includes typical control design examples verified using MATLAB simulation which in turn illustrate the successful practical applications of active vibration control theory for flexible beam systems The book is primarily intended for researchers and engineers in the control system and mechanical engineering community offering them a unique resource **Feedback**

Stabilization of Controlled Dynamical Systems Nicolas Petit,2017-03-23 This book is a tribute to Professor Laurent Praly and follows on from a workshop celebrating the occasion of his 60th birthday It presents new and unified visions of the numerous problems that Laurent Praly has worked on in his prolific career adaptive control output feedback and observers stability and stabilization His main contributions are the central topic of this book The book collects contributions written by prominent international experts in the control community addressing a rich variety of topics emerging ideas advanced applications and theoretical concepts Organized in three sections the first section covers the field of adaptive control where Laurent Praly started his career The second section focuses on stabilization and output feedback which is also the topic of the second half of his career Lastly the third section presents the emerging research that will form Laurent Praly s scientific legacy

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