

Systems & Control: Foundations & Applications

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Output Regulation of Uncertain Nonlinear Systems



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Output Regulation Of Uncertain Nonlinear Systems

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Output Regulation Of Uncertain Nonlinear Systems:

Output Regulation of Uncertain Nonlinear Systems Christopher I. Byrnes, Francesco Delli Priscoli, Alberto Isidori, 2012-12-06 The problem of controlling the output of a system so as to achieve asymptotic tracking of prescribed trajectories and or asymptotic rejection of undesired disturbances is a central problem in control theory. A classical setup in which the problem was posed and successfully addressed in the context of linear time invariant and finite dimensional systems is the one in which the exogenous inputs namely commands and disturbances may range over the set of all possible trajectories of a given autonomous linear system commonly known as the exogenous system or more the exosystem. The case when the exogenous system is a harmonic oscillator is of course classical. Even in this special case the difference between state and error measurement feedback in the problem of output regulation is profound. To know the initial condition of the exosystem is to know the amplitude and phase of the corresponding sinusoid. On the other hand to solve the output regulation problem in this case with only error measurement feedback is to track or attenuate a sinusoid of known frequency but with unknown amplitude and phase. This is in sharp contrast with alternative approaches such as exact output tracking where in lieu of the assumption that a signal is within a class of signals generated by an exogenous system one instead assumes complete knowledge of the past present and future time history of the trajectory to be tracked. **Robust Output**

Regulation of Uncertain Nonlinear Systems Qi Gong, 2004 *Stabilization and Regulation of Nonlinear Systems* Zhiyong Chen, Jie Huang, 2014-08-30 The core of this textbook is a systematic and self contained treatment of the nonlinear stabilization and output regulation problems. Its coverage embraces both fundamental concepts and advanced research outcomes and includes many numerical and practical examples. Several classes of important uncertain nonlinear systems are discussed. The state of the art solution presented uses robust and adaptive control design ideas in an integrated approach which demonstrates connections between global stabilization and global output regulation allowing both to be treated as stabilization problems. *Stabilization and Regulation of Nonlinear Systems* takes advantage of rich new results to give students up to date instruction in the central design problems of nonlinear control problems which are a driving force behind the furtherance of modern control theory and its application. The diversity of systems in which stabilization and output regulation become significant concerns in the mathematical formulation of practical control solutions whether in disturbance rejection in flying vehicles or synchronization of Lorenz systems with harmonic systems makes the text relevant to readers from a wide variety of backgrounds. Many exercises are provided to facilitate study and solutions are freely available to instructors via a download from springerextras.com. Striking a balance between rigorous mathematical treatment and engineering practicality *Stabilization and Regulation of Nonlinear Systems* is an ideal text for graduate students from many engineering and applied mathematical disciplines seeking a contemporary course in nonlinear control. Practitioners and academic theorists will also find this book a useful reference on recent thinking in this field. *Nonlinear Systems* Nathan van de Wouw, Erjen

Lefeber, Ines Lopez Arteaga, 2016-07-07 This treatment of modern topics related to the control of nonlinear systems is a collection of contributions celebrating the work of Professor Henk Nijmeijer and honoring his 60th birthday. It addresses several topics that have been the core of Professor Nijmeijer's work: namely the control of nonlinear systems, geometric control theory, synchronization, coordinated control, convergent systems, and the control of underactuated systems. The book presents recent advances in these areas contributed by leading international researchers in systems and control. In addition to the theoretical questions treated in the text, particular attention is paid to a number of applications including mobile robotics, marine vehicles, neural dynamics, and mechanical systems, generally. This volume provides a broad picture of the analysis and control of nonlinear systems for scientists and engineers with an interest in the interdisciplinary field of systems and control theory. The reader will benefit from the expert participants' ideas on important open problems with contributions that represent the state of the art in nonlinear control.

Nonlinear Systems Shankar Sastry, 2013-04-18 There has been a great deal of excitement in the last ten years over the emergence of new mathematical techniques for the analysis and control of nonlinear systems. Witness the emergence of a set of simplified tools for the analysis of bifurcations, chaos, and other complicated dynamical behavior, and the development of a comprehensive theory of geometric nonlinear control. Coupled with this set of analytic advances has been the vast increase in computational power available for both the simulation and visualization of nonlinear systems as well as for the implementation in real time of sophisticated real-time nonlinear control laws. Thus, technological advances have bolstered the impact of analytic advances and produced a tremendous variety of new problems and applications that are nonlinear in an essential way. Nonlinear control laws have been implemented for sophisticated flight control systems on board helicopters and vertical take-off and landing aircraft; adaptive nonlinear control laws have been implemented for robot manipulators operating either singly or in cooperation on a multi-fingered robot hand; adaptive control laws have been implemented for jet engines and automotive fuel injection systems as well as for automated highway systems and air traffic management systems, to mention a few examples. Bifurcation theory has been used to explain and understand the onset of flutter in the dynamics of aircraft wing structures, the onset of oscillations in nonlinear circuits, surge and stall in aircraft engines, voltage collapse in a power transmission network.

Cooperative Tracking Control and Regulation for a Class of Multi-agent Systems Hongjing Liang, Huaguang Zhang, 2019-05-28 This book focuses on the characteristics of cooperative control problems for general linear multi-agent systems, including formation control, air traffic control, rendezvous, foraging, role assignment, and cooperative search. On this basis and combined with linear system theory, it introduces readers to the cooperative tracking problem for identical continuous-time multi-agent systems under state-coupled dynamics, the cooperative output regulation for heterogeneous multi-agent systems, and the optimal output regulation for model-free multi-agent systems. In closing, the results are extended to multiple leaders and cooperative containment control for uncertain multi-agent systems is addressed. Given its scope, the book offers an essential

reference guide for researchers and designers of multi agent systems as well as a valuable resource for upper level undergraduate and graduate students **Analysis and Design of Nonlinear Control Systems** Daizhan Cheng,Xiaoming Hu,Tielong Shen,2011-03-28 Analysis and Design of Nonlinear Control Systems provides a comprehensive and up to date introduction to nonlinear control systems including system analysis and major control design techniques The book is self contained providing sufficient mathematical foundations for understanding the contents of each chapter Scientists and engineers engaged in the field of Nonlinear Control Systems will find it an extremely useful handy reference book Dr Daizhan Cheng a professor at Institute of Systems Science Chinese Academy of Sciences has been working on the control of nonlinear systems for over 30 years and is currently a Fellow of IEEE and a Fellow of IFAC he is also the chairman of Technical Committee on Control Theory Chinese Association of Automation **Nonlinear Control Systems II** Alberto

Isidori,2012-12-06 The purpose of this book is to present a self contained and coordinated de scription of several design methods for nonlinear control systems with special emphasis on the problem of achieving stability globally or on arbitrarily large domains in the presence of model uncertainties The book is intended to be a continuation of my earlier book Nonlinear Control Systems dealing with the fundamentals of the theory of nonlinear control systems whose third edition was published in 1995 In this respect it is written in the form of a second volume of a single work and uses a numbering system that continues the one adopted in the earlier book with which the overlap is essentially insignificant The book is intended as a graduate text as well as a reference to scientists and engineers interested in the design of feedback laws for nonlinear control systems In the last decade methods for global stabilization of nonlinear systems have experienced a vigorous growth

Process Systems Engineering 2003 Bingzhen Chen,Art Westerberg,2003-06-06 Contains proceedings from the 8th International Symposium on Process Systems Engineering PSE which brought together the global community of process systems engineering researchers and practitioners involved in the creation and application of computing based methodologies for planning design operation control and maintenance of chemical processes Contains proceeding from the 8th International Symposium on Process Systems EngineeringConference theme for PSE 2003 is supporting business decision making **Synchronization Control for Large-Scale Network Systems** Yuanqing Wu,Renquan Lu,Hongye

Su,Peng Shi,Zheng-Guang Wu,2016-10-12 This book provides recent advances in analysis and synthesis of Large scale network systems LSNSs with sampled data communication and non identical nodes In its first chapter of the book presents an introduction to Synchronization of LSNSs and Algebraic Graph Theory as well as an overview of recent developments of LSNSs with sampled data control or output regulation control The main text of the book is organized into two main parts Part I LSNSs with sampled data communication and Part II LSNSs with non identical nodes This monograph provides up to date advances and some recent developments in the analysis and synthesis issues for LSNSs with sampled data communication and non identical nodes It describes the constructions of the adaptive reference generators in the first stage and the robust

regulators in the second stage Examples are presented to show the effectiveness of the proposed design techniques

Strict-Feedback Nonlinear Systems Xianfu Zhang, 2023-01-13 This book describes the research progress of the control design about strict feedback nonlinear systems A novel gain control design method is proposed which greatly simplifies the construction procedure of controller for strict feedback nonlinear systems The control design problem of strict feedback nonlinear systems is converted into the determination problem of gain parameters or the construction of dynamic gain equations Therefore the tedious iterative design procedure is effectively avoided This book can be used as a reference for researchers in the field of control theory and engineers seeking advanced methods in practical control applications

Modern Sliding Mode Control Theory Giorgio Bartolini, Leonid Fridman, Alessandro Pisano, Elio Usai, 2008-04-05 This concise book covers modern sliding mode control theory The authors identify key contributions defining the theoretical and applicative state of the art of the sliding mode control theory and the most promising trends of the ongoing research activities

Proceedings of 2016 Chinese Intelligent Systems Conference Yingmin Jia, Junping Du, Weicun Zhang, Hongbo Li, 2016-09-20 These proceedings present selected research papers from CISC 16 held in Xiamen China The topics include Multi agent system Evolutionary Computation Artificial Intelligence Complex systems Computation intelligence and soft computing Intelligent control Advanced control technology Robotics and applications Intelligent information processing Iterative learning control Machine Learning and etc Engineers and researchers from academia industry and government can get an insight view of the solutions combining ideas from multiple disciplines in the field of intelligent systems

Robot Intelligence Honghai Liu, Dongbing Gu, Robert J. Howlett, Yonghuai Liu, 2010-08-05 Robot intelligence has become a major focus of intelligent robotics Recent innovation in computational intelligence including fuzzy learning neural networks evolutionary computation and classical Artificial Intelligence provides sufficient theoretical and experimental foundations for enabling robots to undertake a variety of tasks with reasonable performance This book reflects the recent advances in the field from an advanced knowledge processing perspective there have been attempts to solve knowledge based information explosion constraints by integrating computational intelligence in the robotics context

Foundations of Deterministic and Stochastic Control Jon H. Davis, 2012-12-06 Control theory has applications to a number of areas in engineering and communication theory This introductory text on the subject is fairly self contained and consists of a wide range of topics that include realization problems linear quadratic optimal control stability theory stochastic modeling and recursive estimation algorithms in communications and control and distributed system modeling In the early chapters methods based on Wiener Hopf integral equations are utilized The fundamentals of both linear control systems as well as stochastic control are presented in a unique way so that the methods generalize to a useful class of distributed parameter and nonlinear system models The control of distributed parameter systems systems governed by PDEs is based on the framework of linear quadratic Gaussian optimization problems Additionally the important notion of state space modeling of distributed systems is

examined Basic results due to Gohberg and Krein on convolution are given and many results are illustrated with some examples that carry throughout the text The standard linear regulator problem is studied in the continuous and discrete time cases followed by a discussion of dual filtering problems Later chapters treat the stationary regulator and filtering problems using a Wiener Hopf approach This leads to spectral factorization problems and useful iterative algorithms that follow naturally from the methods employed The interplay between time and frequency domain approaches is emphasized Foundations of Deterministic and Stochastic Control is geared primarily towards advanced mathematics and engineering students in various disciplines

Nonrecursive Control Design for Nonlinear Systems Chuanlin Zhang,Jun Yang,2023-06-20 Based on the authors recent advances this book focuses on a class of nonlinear systems with mismatched uncertainties disturbances and discusses their typical control problems It aims to provide a comprehensive view of the nonrecursive control theory and application guidelines Various applications on the nonrecursive synthesis of complex nonlinear systems not only greatly simplify the control design process weaken the system assumptions and reduce the conservatism of gain selection but also realize the essential detachment of control law design and Lyapunov function based stability analysis Therefore different from the classical recursive control design methods it is of significance to study the synthesis of nonlinear systems from the perspective of a new nonrecursive control framework This book discusses the following typical control problems theoretical background homogeneous systems theory review nonrecursive robust control design nonrecursive adaptive control design nonrecursive general dynamic predictive control disturbance estimation and attenuation nonrecursive stability analysis implementation theory and real life applications to series elastic actuators DC microgrids and permanent magnet synchronous motor PMSM systems under the proposed nonrecursive synthesis framework This book will be a great reference for scholars and students in the field of automation and control It will also be a useful source for control engineers and those working on anti disturbance control nonlinear output regulation nonsmooth control and other related topics

Optimal Control and Viscosity Solutions of Hamilton-Jacobi-Bellman Equations Martino Bardi,Italo Capuzzo-Dolcetta,2009-05-21 The purpose of the present book is to offer an up to date account of the theory of viscosity solutions of first order partial differential equations of Hamilton Jacobi type and its applications to optimal deterministic control and differential games The theory of viscosity solutions initiated in the early 80 s by the papers of M G Crandall and P L Lions CL81 CL83 M G Crandall L C Evans and P L Lions CEL84 and P L Lions influential monograph L82 provides an tremely convenient PDE framework for dealing with the lack of smoothness of the value functions arising in dynamic optimization problems The leading theme of this book is a description of the implementation of the viscosity solutions approach to a number of significant model problems in op real deterministic control and differential games We have tried to emphasize the advantages offered by this approach in establishing the well posedness of the c responding Hamilton Jacobi equations and to point out its role when combined with various techniques from optimal control theory and nonsmooth

analysis in the important issue of feedback synthesis **The Dynamics of Control** Fritz Colonius, Wolfgang Kliemann, 2012-12-06 This new text reference is an excellent resource for the foundations and applications of control theory and nonlinear dynamics All graduates practitioners and professionals in control theory dynamical systems perturbation theory engineering physics and nonlinear dynamics will find the book a rich source of ideas methods and applications With its careful use of examples and detailed development it is suitable for use as a self study reference guide for all scientists and engineers **High Performance Control** Teng-Tiow Tay, Iven Mareels, John B. Moore, 2012-12-06 The engineering objective of high performance control using the tools of optimal control theory robust control theory and adaptive control theory is more achievable now than ever before and the need has never been greater Of course when we use the term high performance control we are thinking of achieving this in the real world with all its complexity uncertainty and variability Since we do not expect to always achieve our desires a more complete title for this book could be Towards High Performance Control To illustrate our task consider as an example a disk drive tracking system for a portable computer The better the controller performance in the presence of eccentricity uncertainties and external disturbances such as vibrations when operated in a moving vehicle the more tracks can be used on the disk and the more memory it has Many systems today are control system limited and the quest is for high performance in the real world Mutational and Morphological Analysis Jean-Pierre Aubin, 2012-12-06 The analysis processing evolution optimization and or regulation and control of shapes and images appear naturally in engineering shape optimization image processing visual control numerical analysis interval analysis physics front propagation biological morphogenesis population dynamics migrations and dynamic economic theory These problems are currently studied with tools forged out of differential geometry and functional analysis thus requiring shapes and images to be smooth However shapes and images are basically sets most often not smooth J P Aubin thus constructs another vision where shapes and images are just any compact set Hence their evolution which requires a kind of differential calculus must be studied in the metric space of compact subsets Despite the loss of linearity one can transfer most of the basic results of differential calculus and differential equations in vector spaces to mutational calculus and mutational equations in any mutational space including naturally the space of nonempty compact subsets Mutational and Morphological Analysis offers a structure that embraces and integrates the various approaches including shape optimization and mathematical morphology Scientists and graduate students will find here other powerful mathematical tools for studying problems dealing with shapes and images arising in so many fields

Whispering the Secrets of Language: An Emotional Quest through **Output Regulation Of Uncertain Nonlinear Systems**

In a digitally-driven world wherever screens reign supreme and instant communication drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases usually move unheard. Yet, set within the pages of **Output Regulation Of Uncertain Nonlinear Systems** a fascinating fictional value pulsating with raw thoughts, lies an extraordinary quest waiting to be undertaken. Composed by a skilled wordsmith, this charming opus invites viewers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the cloth of every word. Within the psychological depths of the moving evaluation, we will embark upon a heartfelt exploration of the book is key subjects, dissect their charming writing type, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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