Michael Malisoff
Frédéric Mazenc

Constructions of Strict Lyapunov Functions

Constructions Of Strict Lyapunov Functions Communications And Control Engineering

Michal Rosen-Zvi

Constructions Of Strict Lyapunov Functions Communications And Control Engineering:

   Constructions of Strict Lyapunov Functions Michael Malisoff,Frédéric Mazenc,2009-06-13 Converse Lyapunov function theory guarantees the existence of strict Lyapunov functions in many situations but the functions it provides are often abstract and nonexplicit and therefore may not lend themselves to engineering applications Often even when a system is known to be stable one still needs explicit Lyapunov functions however once an appropriate strict Lyapunov function has been constructed many robustness and stabilization problems can be solved through standard feedback designs or robustness arguments Non strict Lyapunov functions are often readily constructed This book contains a broad repertoire of Lyapunov constructions for nonlinear systems focusing on methods for transforming non strict Lyapunov functions into strict ones Their explicitness and simplicity make them suitable for feedback design and for quantifying the effects of uncertainty Readers will benefit from the authors mathematical rigor and unifying design oriented approach as well as the numerous worked examples   Stability and Stabilization of Nonlinear Systems Iasson Karafyllis,Zhong-Ping Jiang,2011-04-02 Recently the subject of nonlinear control systems analysis has grown rapidly and this book provides a simple and self contained presentation of their stability and feedback stabilization which enables the reader to learn and understand major techniques used in mathematical control theory In particular the important techniques of proving global stability properties are presented closely linked with corresponding methods of nonlinear feedback stabilization a general framework of methods for proving stability is given thus allowing the study of a wide class of nonlinear systems including finite dimensional systems described by ordinary differential equations discrete time systems systems with delays and sampled data systems approaches to the proof of classical global stability properties are extended to non classical global stability properties such as non uniform in time stability and input to output stability and new tools for stability analysis and control design of a wide class of nonlinear systems are introduced The presentational emphasis of Stability and Stabilization of Nonlinear Systems is theoretical but the theory s importance for concrete control problems is highlighted with a chapter specifically dedicated to applications and with numerous illustrative examples Researchers working on nonlinear control theory will find this monograph of interest while graduate students of systems and control can also gain much insight and assistance from the methods and proofs detailed in this book   **System Engineering Approach to Planning Anticancer Therapies** Andrzej Świerniak,Marek Kimmel,Jaroslaw Smieja,Krzysztof Puszynski,Krzysztof Psiuk-Maksymowicz,2016-05-19 This book focuses on the analysis of cancer dynamics and the mathematically based synthesis of anticancer therapy It summarizes the current state of the art in this field and clarifies common misconceptions about mathematical modeling in cancer Additionally it encourages closer cooperation between engineers physicians and mathematicians by showing the clear benefits of this without stating unrealistic goals Development of therapy protocols is realized from an engineering point of view such as the search for a solution to a specific control optimization problem Since in the case of cancer patients consecutive

measurements providing information about the current state of the disease are not available the control laws are derived for an open loop structure Different forms of therapy are incorporated into the models from chemotherapy and antiangiogenic therapy to immunotherapy and gene therapy but the class of models introduced is broad enough to incorporate other forms of therapy as well The book begins with an analysis of cell cycle control moving on to control effects on cell population and structured models and finally the signaling pathways involved in carcinogenesis and their influence on therapy outcome It also discusses the incorporation of intracellular processes using signaling pathway models since the successful treatment of cancer based on analysis of intracellular processes might soon be a reality It brings together various aspects of modeling anticancer therapies which until now have been distributed over a wide range of literature Written for researchers and graduate students interested in the use of mathematical and engineering tools in biomedicine with special emphasis on applications in cancer diagnosis and treatment this self contained book can be easily understood with only a minimal basic knowledge of control and system engineering methods as well as the biology of cancer Its interdisciplinary character and the authors extensive experience in cooperating with clinicians and biologists make it interesting reading for researchers from control and system engineering looking for applications of their knowledge Systems and molecular biologists as well as clinicians will also find new inspiration for their research   Control Theory of Digitally Networked Dynamic Systems Jan Lunze,2013-07-06 The book gives an introduction to networked control systems and describes new modeling paradigms analysis methods for event driven digitally networked systems and design methods for distributed estimation and control Networked model predictive control is developed as a means to tolerate time delays and packet loss brought about by the communication network In event based control the traditional periodic sampling is replaced by state dependent triggering schemes Novel methods for multi agent systems ensure complete or clustered synchrony of agents with identical or with individual dynamics The book includes numerous references to the most recent literature Many methods are illustrated by numerical examples or experimental results   **Dissipative Systems Analysis and Control** Bernard Brogliato,Rogelio Lozano,Bernhard Maschke,Olav Egeland,2019-07-03 The third edition of the now standard Dissipative Systems Analysis and Control presents a revised and expanded treatment of dissipative systems theory constituting a self contained advanced introduction for graduate students researchers and practising engineers It examines linear nonlinear and nonsmooth systems with many examples in each chapter occasional infinite dimensional examples are also included Throughout emphasis is placed on the use of the dissipative properties of a system for the design of stable and robust feedback control laws or state observers The theory is substantiated by experimental results and by reference to its application in illustrative physical cases Lagrangian systems passivity based and adaptive controllers are covered thoroughly The third edition is substantially updated to accommodate new material within the existing chapter structure The additions include the introduction of negative imaginary transfer functions the design of stable state observers that use passivity as a tool for their stability

analysis a new section on robust set valued control of uncertain Lagrangian systems extended section on discrete time systems especially the preservation of dissipativity after discretization a thorough treatment of nonsmooth set valued Lur e systems well posednees and stability an extended chapter on the Kalman Yakubovich Popov Lemma and over 1000 references

The British National Bibliography Arthur James Wells,2009 <u>Nonsmooth Lyapunov Analysis in Finite and Infinite Dimensions</u> Yury Orlov,2020-02-08 Nonsmooth Lyapunov Analysis in Finite and Infinite Dimensions provides helpful tools for the treatment of a broad class of dynamical systems that are governed not only by ordinary differential equations but also by partial and functional differential equations Existing Lyapunov constructions are extended to discontinuous systems those with variable structure and impact by the involvement of nonsmooth Lyapunov functions The general theoretical presentation is illustrated by control related applications the nonsmooth Lyapunov construction is particularly applied to the tuning of sliding mode controllers in the presence of mismatched disturbances and to orbital stabilization of the bipedal gate The nonsmooth construction is readily extendible to the control and identification of distributed parameter and time delay systems The first part of the book outlines the relevant fundamentals of benchmark models and mathematical basics The second concentrates on the construction of nonsmooth Lyapunov functions Part III covers design and applications material This book will benefit the academic research and graduate student interested in the mathematics of Lyapunov equations and variable structure control stability analysis and robust feedback design for discontinuous systems It will also serve the practitioner working with applications of such systems The reader should have some knowledge of dynamical systems theory but no background in discontinuous systems is required they are thoroughly introduced in both finite and infinite dimensional settings **Optimization Theory and the Design of Feedback Control Systems** Charles Wolcott Merriam,1964

International Aerospace Abstracts ,1998 **Control of Nonlinear Dynamical Systems** Felix L. Chernous'ko,I. M. Ananievski,S. A. Reshmin,2008-09-26 This book is devoted to new methods of control for complex dynamical systems and deals with nonlinear control systems having several degrees of freedom subjected to unknown disturbances and containing uncertain parameters Various constraints are imposed on control inputs and state variables or their combinations The book contains an introduction to the theory of optimal control and the theory of stability of motion and also a description of some known methods based on these theories Major attention is given to new methods of control developed by the authors over the last 15 years Mechanical and electromechanical systems described by nonlinear Lagrange s equations are considered General methods are proposed for an effective construction of the required control often in an explicit form The book contains various techniques including the decomposition of nonlinear control systems with many degrees of freedom piecewise linear feedback control based on Lyapunov s functions methods which elaborate and extend the approaches of the conventional control theory optimal control differential games and the theory of stability The distinctive feature of the methods developed in the book is that the c trols obtained satisfy the imposed constraints and steer the dynamical system to

a prescribed terminal state in nite time Explicit upper estimates for the time of the process are given In all cases the control algorithms and the estimates obtained are strictly proven   **The Publishers' Trade List Annual** ,1971   Electrical & Electronics Abstracts ,1997   Mathematical Reviews ,1994   **On the Construction of Lyapunov Functions for Nonlinear Systems** K. S. NARENDRA,YU-CHI. HO,HARVARD UNIV CAMBRIDGE MA CRUFT LAB.,1960   Construction of Global Lyapunov Functions Using Radial Basis Functions Peter Giesl,2007-04-11 The basin of attraction of an equilibrium of an ordinary differential equation can be determined using a Lyapunov function A new method to construct such a Lyapunov function using radial basis functions is presented in this volume intended for researchers and advanced students from both dynamical systems and radial basis functions Besides an introduction to both areas and a detailed description of the method it contains error estimates and many examples   **Control of Nonlinear Dynamical Systems** Felix L. Chernous'ko,I. M. Ananievski,S. A. Reshmin,2009-08-29 This book is devoted to new methods of control for complex dynamical systems and deals with nonlinear control systems having several degrees of freedom subjected to unknown disturbances and containing uncertain parameters Various constraints are imposed on control inputs and state variables or their combinations The book contains an introduction to the theory of optimal control and the theory of stability of motion and also a description of some known methods based on these theories Major attention is given to new methods of control developed by the authors over the last 15 years Mechanical and electromechanical systems described by nonlinear Lagrange s equations are considered General methods are proposed for an effective construction of the required control often in an explicit form The book contains various techniques including the decomposition of nonlinear control systems with many degrees of freedom piecewise linear feedback control based on Lyapunov s functions methods which elaborate and extend the approaches of the conventional control theory optimal control differential games and the theory of stability The distinctive feature of the methods developed in the book is that the c trols obtained satisfy the imposed constraints and steer the dynamical system to a prescribed terminal state in nite time Explicit upper estimates for the time of the process are given In all cases the control algorithms and the estimates obtained are strictly proven   **Liapunov Functions and Stability in Control Theory** Andrea Bacciotti,Lionel Rosier,2005-04-13 This book presents a modern and self contained treatment of the Liapunov method for stability analysis in the framework of mathematical nonlinear control theory A Particular focus is on the problem of the existence of Liapunov functions converse Liapunov theorems and their regularity whose interest is especially motivated by applications to automatic control Many recent results in this area have been collected and presented in a systematic way Some of them are given in extended unified versions and with new simpler proofs In the 2nd edition of this successful book several new sections were added and old sections have been improved e g about the Zubovs method Liapunov functions for discontinuous systems and cascaded systems Many new examples explanations and figures were added making this book accessible and well readable for engineers as well as mathematicians   **Technical Report No328: On the Construction**

of Lyapunov Functions for Nonlinear Systems United States. Naval Research Office,1960   Numerical Construction of Nonsmooth Control Lyapunov Functions Robert Baier,Philipp Braun,Lars Grüne,Christopher M. Kellett,2017   Construction of Quadratic Lyapunov Functions for a Class of Uncertain Linear Systems Christopher Valentine Hollot,1984

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