

Miroslav Krstić and Hua Deng

Stabilization of Nonlinear Uncertain Systems



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Stabilization Of Nonlinear Uncertain Systems

**Alexander Leonessa, Wassim M.
Haddad, VijaySekhar Chellaboina**



Stabilization Of Nonlinear Uncertain Systems:

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 *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, 2021-12-14 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 **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 **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 **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_∞ 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_∞ 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_∞ 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 **Dynamics and Control** George Leitmann,Firdaus E. Udwadia,A V Kryazhimskii,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 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 *Robust and H_∞ Control* Ben M. Chen,2013-03-14 H_∞ control theory deals with the minimization of the H_∞ norm of the transfer matrix from an exogenous disturbance to a pertinent controlled output of a given plant Robust and H_∞ Control examines both the theoretical and practical aspects of H_∞ control from the angle of the structural properties of linear systems Constructive algorithms are provided for finding solutions to general singular H_∞ control problems general H_∞ almost disturbance decoupling problems robust and perfect tracking problems Theories are also applied to real life problems with actual implementations This book can be used for graduate courses in departments of aeronautics and astronautics applied mathematics chemical engineering electrical engineering and mechanical engineering It should also be of great value to engineers practising in industry

The Enigmatic Realm of **Stabilization Of Nonlinear Uncertain Systems**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Stabilization Of Nonlinear Uncertain Systems** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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