

Nonlinear Systems

Analysis, Stability,
and Control

Shankar Sastry



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Interdisciplinary Applied Mathematics

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Nonlinear Systems Shankar Sastry,2013-04-18 There has been much excitement over the emergence of new mathematical techniques for the analysis and control of nonlinear systems In addition great technological advances have bolstered the impact of analytic advances and produced many new problems and applications which are nonlinear in an essential way This book lays out in a concise mathematical framework the tools and methods of analysis which underlie this diversity of applications
<u>Nonlinear Systems Analysis</u> M. Vidyasagar,2002-10-01 This text provides a rigorous mathematical analysis of the behavior of nonlinear control systems under a variety of situations
<i>Nonlinear Systems</i> Shankar Sastry,2014-01-15
Nonlinear Systems Analysis Mathukumalli Vidyasagar,2002
Nonlinear Control Systems Alberto Isidori,1995-08-11 The purpose of this book is to present a self contained description of the fundamentals of the theory of nonlinear control systems with special emphasis on the differential geometric approach The book is intended as a graduate text as well as a reference to scientists and engineers involved in the analysis and design of feedback systems The first version of this book was written in 1983 while I was teaching at the Department of Systems Science and Mathematics at Washington University in St Louis This new edition integrates my subsequent teaching experience gained at the University of Illinois in Urbana Champaign in 1987 at the Carl Cranz Gesellschaft in Oberpfaffenhofen in 1987 at the University of California in Berkeley in 1988 In addition to a major rearrangement of the last two Chapters of the first version this new edition incorporates two additional Chapters at a more elementary level and an exposition of some relevant research findings which have occurred since 1985
Stability Analysis of Nonlinear Systems Vangipuram Lakshmikantham,Srinivasa Leela,Anatoly A. Martynyuk,2015-12-29 The book investigates stability theory in terms of two different measures exhibiting the advantage of employing families of Lyapunov functions and treats the theory of a variety of inequalities clearly bringing out the underlying theme It also demonstrates manifestations of the general Lyapunov method showing how this technique can be adapted to various apparently diverse nonlinear problems Furthermore it discusses the application of theoretical results to several different models chosen from real world phenomena furnishing data that is particularly relevant for practitioners Stability Analysis of Nonlinear Systems is an invaluable single source reference for industrial and applied mathematicians statisticians engineers researchers in the applied sciences and graduate students studying differential equations
<i>Nonlinear Systems</i> Dongbin Lee,Christos Volos,Timothy Burg,2016-10-19 The book consists mainly of two parts Chapter 1 Chapter 7 and Chapter 8 Chapter 14 Chapter 1 and Chapter 2 treat design techniques based on linearization of nonlinear systems An analysis of nonlinear system over quantum mechanics is discussed in Chapter 3 Chapter 4 to Chapter 7 are estimation methods using Kalman filtering while solving nonlinear control systems using iterative approach Optimal approaches are discussed in Chapter 8 with retarded control of nonlinear system in singular situation and Chapter 9 extends optimal theory to H infinity control for a nonlinear control system Chapters 10 and 11 present the control of nonlinear dynamic systems twin rotor helicopter and 3D crane system which are both underactuated cascaded dynamic systems Chapter 12 applies controls to antisynchronization synchronization in the chaotic models based on Lyapunov exponent theorem and Chapter 13 discusses developed stability analytic approaches in terms of Lyapunov stability The analysis of economic activities especially the relationship between stock return and economic growth is presented in Chapter 14

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

Nonlinear Control Under Nonconstant Delays Nikolaos Bekiaris-Liberis, Miroslav Krstic, 2013-09-25 The authors have developed a methodology for control of nonlinear systems in the presence of long delays with large and rapid variation in the actuation or sensing path or in the presence of long delays affecting the internal state of a system In addition to control synthesis they introduce tools to quantify the performance and the robustness properties of the designs provided in the book The book is based on the concept of predictor feedback and infinite dimensional backstepping transformation for linear systems and the authors guide the reader from the basic ideas of the concept with constant delays only on the input all the way through to nonlinear systems with state dependent delays on the input as well as on system states Readers will find the book useful because the authors provide elegant and systematic treatments of long standing problems in delay systems such as systems with state dependent delays that arise in many applications In addition the authors give all control designs by explicit formulae making the book especially useful for engineers who have faced delay related challenges and are concerned with actual implementations and they accompany all control designs with Lyapunov based analysis for establishing stability and performance guarantees

Nonlinear Systems, 2018-07-18 This book focuses on several key aspects of nonlinear systems including dynamic modeling state estimation and stability analysis It is intended to provide a wide range of readers in applied mathematics and various engineering disciplines an excellent survey of recent studies of nonlinear systems With its thirteen chapters the book brings together important contributions from renowned international researchers to provide an excellent survey of recent studies of nonlinear systems The first section consists of eight chapters that focus on nonlinear dynamic modeling and analysis techniques while the next section is composed of five chapters that center on state estimation methods and stability analysis for nonlinear systems

Stability and Stabilization William J. Terrell, 2009-02-15 Stability and Stabilization is the first intermediate level textbook that covers stability and stabilization of equilibria for both linear and nonlinear time invariant systems of ordinary differential equations Designed for advanced undergraduates and beginning graduate students in the sciences engineering and mathematics the book takes a unique modern approach that bridges the gap between linear and nonlinear systems Presenting stability and stabilization of equilibria as a core problem of mathematical control theory the book emphasizes the subject's mathematical coherence and unity and it introduces and develops many of the core concepts of systems and control theory There are five chapters on linear systems and nine chapters on nonlinear systems an introductory chapter a mathematical background chapter a short final chapter on further reading and appendixes on basic analysis ordinary differential equations manifolds and the Frobenius theorem and comparison functions and their use in differential equations The introduction to linear system theory presents the full framework of basic state space theory providing just enough detail to prepare students for the material on nonlinear systems Focuses on stability and feedback stabilization Bridges the gap between linear and nonlinear systems for advanced undergraduates and beginning graduate students Balances coverage of linear and nonlinear systems Covers cascade systems Includes many examples and exercises

Stability and Stabilization of Nonlinear Systems Dirk Aeyels, Francoise Lamnabhi-Lagarrigue, Arjan van der Schaft, 2008-01-26 These papers were presented at the first EC TMR Nonlinear Control Network Workshop on Stability and Stabilization of Nonlinear Systems that took place in March 1999 Ghent Belgium The TMR programme offers a unique opportunity for the academic community to expand their knowledge share their experience and identify and discuss strategic issues in aspects of nonlinear control engineering The aim is to create a resource centre of available expertise and research interests This outstanding reference volume presents current and emerging research directions including Stability analysis of nonlinear dynamical systems and converse Lyapunov theorems Stabilization and regulation of nonlinear dynamical control systems Control of physical systems using physics based Lyapunov functions and passivity as well as bifurcation analysis and optimal control This collection of peer reviewed papers provides a comprehensive overview of this field of research for graduate students and researchers in engineering and applied mathematics

Absolute Stability of Nonlinear Control Systems Xiaoxin Liao, Pei Yu, 2008-07-16 Following the recent developments in the field of absolute stability Prof Xiaoxin Liao in conjunction with Prof Pei Yu has created a second edition of his seminal work on the subject Liao begins with an introduction to the Lurie problem and Lurie control system before moving on to the simple algebraic sufficient conditions for the absolute stability of autonomous and non autonomous ODE systems as well as several special classes of Lurie type systems The focus of the book then shifts toward the new results and research that have appeared in the decade since the first edition was published This book is aimed to be used by undergraduates in the areas of applied mathematics nonlinear control systems and chaos control and synchronisation but may also be useful as a reference for researchers and engineers The book is self contained though a basic knowledge of calculus linear system and matrix theory and ordinary differential equations is a prerequisite

Nonlinear Systems Guanrong Chen,2023-06-28 The topic of nonlinear systems is fundamental to the study of systems engineering So extensive investigations have been carried out by both the nonlinear control and nonlinear dynamics communities but the focus can be different on controllers design and dynamics analysis respectively The last two decades have witnessed the gradual merging of control theory and dynamics analysis but not yet to the extent of controlling nonlinear dynamics such as bifurcations and chaos This monograph is an attempt to fill that gap while presenting a rather comprehensive coverage of the fundamental nonlinear systems theory in a self contained and approachable manner This introductory treatise is written for self study and in particular as an elementary textbook that can be taught in a one semester course to advanced undergraduates or entrance level graduates with curricula focusing on nonlinear systems both on control theory and dynamics analysis

Stability and Stabilization of Nonlinear Systems with Random Structures I. Ya Kats,A.A. Martynyuk,2002-08-22 Nonlinear systems with random structures arise quite frequently as mathematical models in diverse disciplines This monograph presents a systematic treatment of stability theory and the theory of stabilization of nonlinear systems with random structure in terms of new developments in the direct Lyapunov s method The analysis focuses on dynamic sys

Identification and Adaptive Control for Nonlinear Systems and Applications Jianhua Zhang,Yang Li,Qiang Chen,2022-03-15 Identification and Adaptive Control for Nonlinear Systems and Applications Applied Mathematics in Control Engineering introduces nonlinear systems concepts system analysis system control methods and applications in various fields The major contribution of the book includes 1 The basic concepts of nonlinear systems stability analysis and nonlinear systems control method 2 The stability analysis of complex nonlinear system with adaptive neural networks control 3 The nonlinear systems adaptive sliding mode controller design of complex nonlinear systems 4 Some industrial application The book gives an introduction to basic nonlinear systems architectures for adaptive control methods Emphasis is placed on the mathematical analysis of these systems on methods of controlling them for adaptive control and on their application to practical engineering problems in such areas as aircraft path planning This book enables audience to understand the basic architectures of control science and engineering and to master classical and advanced design method for nonlinear system Introduces nonlinear systems concepts system analysis system control methods and applications in various fields Presents basic concepts of nonlinear systems stability analysis and nonlinear systems control method Offers practical examples

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

Nonlinear Systems P. G. Drazin, 1992-06-26 The theories of bifurcation chaos and fractals as well as equilibrium stability and nonlinear oscillations are part of the theory of the evolution of solutions of nonlinear equations A wide range of mathematical tools and ideas are drawn together in the study of these solutions and the results applied to diverse and countless problems in the natural and social sciences even philosophy The text evolves from courses given by the author in the UK and the United States It introduces the mathematical properties of nonlinear systems mostly difference and differential equations as an integrated theory rather than presenting isolated fashionable topics Topics are discussed in as concrete a way as possible and worked examples and problems are used to explain motivate and illustrate the general principles The essence of these principles rather than proof or rigour is emphasized More advanced parts of the text are denoted by asterisks and the mathematical prerequisites are limited to knowledge of linear algebra and advanced calculus thus making it ideally suited to both senior undergraduates and postgraduates from physics engineering chemistry meteorology etc as well as mathematics

Nonlinear Dynamical Systems and Control Wassim M. Haddad, VijaySekhar Chellaboina, 2011-09-19 Nonlinear Dynamical Systems and Control presents and develops an extensive treatment of stability analysis and control design of nonlinear dynamical systems with an emphasis on Lyapunov based methods Dynamical system theory lies at the heart of mathematical sciences and engineering The application of dynamical systems has crossed interdisciplinary boundaries from chemistry to biochemistry to chemical kinetics from medicine to biology to population genetics from economics to sociology to psychology and from physics to mechanics to engineering The increasingly complex nature of engineering systems requiring feedback control to obtain a desired system behavior also gives rise to dynamical systems Wassim Haddad and VijaySekhar Chellaboina provide an exhaustive treatment of nonlinear systems theory and control using the highest standards of exposition and rigor This graduate level textbook goes well beyond standard treatments by developing Lyapunov stability theory partial stability boundedness input to state stability input output stability finite time stability semistability stability of sets and periodic orbits and stability theorems via vector Lyapunov functions A complete and thorough treatment of dissipativity theory absolute stability theory stability of feedback systems optimal control disturbance rejection control and robust control for nonlinear dynamical systems is also given This book is an indispensable resource for applied mathematicians dynamical systems theorists control theorists and engineers

nonlinear analysis and applications Lakshmikantham, 1987-09-21 This book attempts to put together the works of a wide range of mathematical scientists It consists of the proceedings of the Seventh Conference on Nonlinear Analysis and Applications including papers that were delivered as invited talks and research reports

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