



Stability Of Nonlinear Systems

Hsiao-Dong Chiang, Luís F. C. Alberto



Stability Of Nonlinear Systems:

Practical Stability Of Nonlinear Systems Vangipuram Lakshmikantham, Srinivasa G Leela, Anatoliy A Martynyuk, 1990-11-14 This is the first book that deals with practical stability and its development. It presents a systematic study of the theory of practical stability in terms of two different measures and arbitrary sets and demonstrates the manifestations of general Lyapunov's method by showing how this effective technique can be adapted to investigate various apparently diverse nonlinear problems including control systems and multivalued differential equations. **Nonlinear Systems: Stability, Dynamics And Control** 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 of Nonlinear Systems** Derek P. Atherton, 1981 Nonlinear Dynamical Systems and Control Wassim M. Haddad, VijaySekhar Chellaboina, 2008-02-17 The application of dynamical systems has crossed interdisciplinary boundaries from chemistry to biochemistry to chemical kinetics and beyond. This book presents and develops a complete and thorough treatment of stability analysis and control design of nonlinear dynamical systems with an emphasis on Lyapunov based methods. **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 *Stability Analysis of Nonlinear Systems V.* Lakshmikantham, S. Leela, Anatolii Andreevich Martynuk, 1988-11-29 Investigates stability theory in terms of two different measures treats the theory of a variety of inequalities and demonstrates manifestations of the general Lyapunov method Also covers the importance of utilizing different forms of nonlinear variation of parametric formulae constructive method

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 **Stability and Stabilization of Nonlinear Systems** Dirk Aeyels, Françoise Lamnabhi-Lagarigue, 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

Stability and Control of Nonlinear Time-varying Systems Shuli Guo, Lina Han, 2018-04-12 This book presents special systems derived from industrial models including the complex saturation nonlinear functions and the delay nonlinear

functions It also presents typical methods such as the classical Liapunov and Integral Inequalities methods Providing constructive qualitative and stability conditions for linear systems with saturated inputs in both global and local contexts it offers practitioners more concise model systems for modern saturation nonlinear techniques which have the potential for future applications This book is a valuable guide for researchers and graduate students in the fields of mathematics control and engineering

Nonlinear Systems A.J. Fossard,D. Normand-Cyrot,2012-12-06 Nonlinear Systems is divided into three volumes The first deals with modeling and estimation the second with stability and stabilization and the third with control This three volume set provides the most comprehensive and detailed reference available on nonlinear systems Written by a group of leading experts in the field drawn from industry government and academic institutions it provides a solid theoretical basis on nonlinear control methods as well as practical examples and advice for engineers teachers and researchers working with nonlinear systems Each book focuses on the applicability of the concepts introduced and keeps the level of mathematics to a minimum Simulations and industrial examples drawn from aerospace as well as mechanical electrical and chemical engineering are given throughout

Stability Analysis of Nonlinear Systems Vangipuram Lakshmikantham,Srinivasa Leela,Anatoly A. Martynyuk,2015 The book investigates stability theory in terms of two different measure 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

Absolute Stability of Nonlinear Control Systems Xiao-Xin Liao,2013-04-17 As is well known a control system always works under a variety of accidental or continued disturbances Therefore in designing and analysing the control system stability is the first thing to be considered Classic control theory was basically limited to a discussion of linear systems with constant coefficients The fundamental tools for such studies were the Routh Hurwitz algebraic criterion and the Nyquist geometric criterion However modern control theory mainly deals with nonlinear problems The stability analysis of nonlinear control systems based on Liapunov stability theory can be traced back to the Russian school of stability In 1944 the Russian mathematician Lurie a specialist in control theory discussed the stability of an autopilot The well known Lurie problem and the concept of absolute stability are presented which is of universal significance both in theory and practice Up until the end of the 1950 s the field of absolute stability was monopolized mainly by Russian scholars such as A I Lurie M A Aizeman A M Letov and others At the beginning of the 1960 s some famous American mathematicians such as J P LaSalle S Lefschetz and R E Kalman engaged themselves in this field Meanwhile the Romanian scholar Popov presented a well known frequency criterion and

consequently made a decisive breakthrough in the study of absolute stability

Noninteracting Control with Stability for Nonlinear Systems Stefano Battilotti, 2014-03-12 The noninteracting control problem with stability consists of rendering a nonlinear system noninteractive while achieving internal stability. With the exception of systems with outputs partitioned into given blocks or when the state of the system is not available for feedback, this problem is well understood. However, this book provides a useful supplement to the standard texts on the nonlinear control theory and collects all the existing results on the nonlinear noninteracting control problem into a self-contained and extensive concept.

Nonlinear Systems Analysis M. Vidyasagar, 2002-01-01 When M. Vidyasagar wrote the first edition of *Nonlinear Systems Analysis*, most control theorists considered the subject of nonlinear systems a mystery. Since then, advances in the application of differential geometric methods to nonlinear analysis have matured to a stage where every control theorist needs to possess knowledge of the basic techniques because virtually all physical systems are nonlinear in nature. The second edition, now republished in the SIAM Classics in Applied Mathematics series, provides a rigorous mathematical analysis of the behavior of nonlinear control systems under a variety of situations. It develops nonlinear generalizations of a large number of techniques and methods widely used in linear control theory. The book contains three extensive chapters devoted to the key topics of Lyapunov stability, input-output stability, and the treatment of differential geometric control theory. Audience: This text is designed for use at the graduate level in the area of nonlinear systems and as a resource for professional researchers and practitioners working in areas such as robotics, spacecraft control, motor control, and power systems.

Nonlinear Systems Stability Analysis Seyed Kamaledin Yadavar Nikraves, 2018-09-03 The equations used to describe dynamic properties of physical systems are often nonlinear, and it is rarely possible to find their solutions. Although numerical solutions are impractical and graphical techniques are not useful for many types of systems, there are different theorems and methods that are useful regarding qualitative properties of nonlinear systems, and their solutions. System stability being the most crucial property. Without stability, a system will not have value. *Nonlinear Systems Stability Analysis: Lyapunov Based Approach* introduces advanced tools for stability analysis of nonlinear systems. It presents the most recent progress in stability analysis and provides a complete review of the dynamic systems stability analysis methods using Lyapunov approaches. The author discusses standard stability techniques, highlighting their shortcomings, and also describes recent developments in stability analysis that can improve applicability of the standard methods. The text covers mostly new topics such as stability of homogeneous nonlinear systems and higher-order Lyapunov functions/derivatives for stability analysis. It also addresses special classes of nonlinear systems, including time-delayed and fuzzy systems. Presenting new methods, this book provides a nearly complete set of methods for constructing Lyapunov functions in both autonomous and nonautonomous systems, touching on new topics that open up novel research possibilities. Gathering a body of research into one volume, this text offers information to help engineers design stable systems using practice-oriented methods and can be used for graduate courses in

a range of engineering disciplines Nonlinear and Optimal Control Systems Thomas L. Vincent, Walter J. Grantham, 1997-06-23 Designed for one semester introductory senior or graduate level course the authors provide the student with an introduction of analysis techniques used in the design of nonlinear and optimal feedback control systems There is special emphasis on the fundamental topics of stability controllability and optimality and on the corresponding geometry associated with these topics Each chapter contains several examples and a variety of exercises **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 **Bifurcation and Stability in Nonlinear Dynamical Systems** Albert C. J. Luo, 2020-01-30 This book systematically presents a fundamental theory for the local analysis of bifurcation and stability of equilibriums in nonlinear dynamical systems Until now one does not have any efficient way to investigate stability and bifurcation of dynamical systems with higher order singularity equilibriums For instance infinite equilibrium dynamical systems have higher order singularity which dramatically changes dynamical behaviors and possesses the similar characteristics of discontinuous dynamical systems The stability and bifurcation of equilibriums on the specific eigenvector are presented and the spiral stability and Hopf bifurcation of equilibriums in nonlinear systems are presented through the Fourier series transformation The bifurcation and stability of higher order singularity equilibriums are presented through the $2m$ th and $2m-1$ th degree polynomial systems From local analysis dynamics of infinite equilibrium systems is discussed The research on infinite equilibrium systems will bring us to the new era of dynamical systems and control Presents an efficient way to investigate stability and bifurcation of dynamical systems with higher order singularity equilibriums Discusses dynamics of infinite equilibrium systems Demonstrates higher order singularity **Absolute Stability of Nonlinear Control Systems** Xiao-Xin Liao, 2014-01-15 This volume presents an overview of some recent developments on the absolute stability of nonlinear control systems Chapter 1 introduces the main tools and the principal results used in this book such as Lyapunov functions K class functions Dini derivatives M matrices and the principal theorems on global stability Chapter 2 presents the absolute stability theory of autonomous control systems and the well known Lurie problem Chapter 3 gives some simple algebraic necessary and sufficient conditions for the absolute stability of several special control systems Chapter 4 discusses nonautonomous and discrete control systems Chapter 5 deals with the absolute stability of control systems with m nonlinear control terms Chapter 6 devotes itself to the absolute stability of control systems described by functional differential

equations The book concludes with a useful bibliography For applied mathematicians and engineers whose work involves control systems *Stability Regions of Nonlinear Dynamical Systems* Hsiao-Dong Chiang, Luís F. C. Alberto, 2015-08-13 An authoritative treatment by leading researchers covering theory and optimal estimation along with practical applications

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