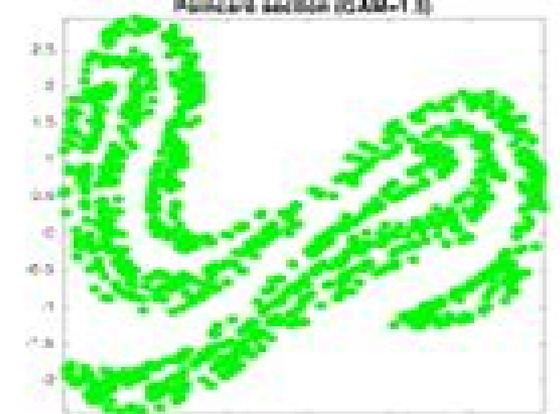
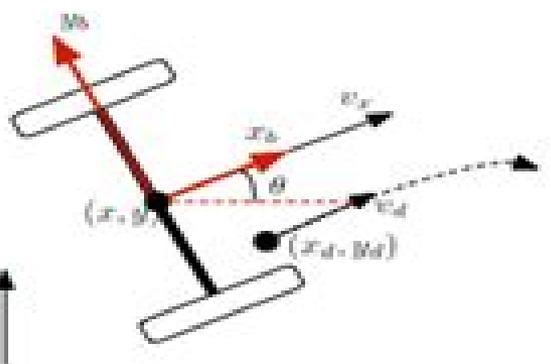


Figure 1. Mechanical interpretation of Duffing oscillator.



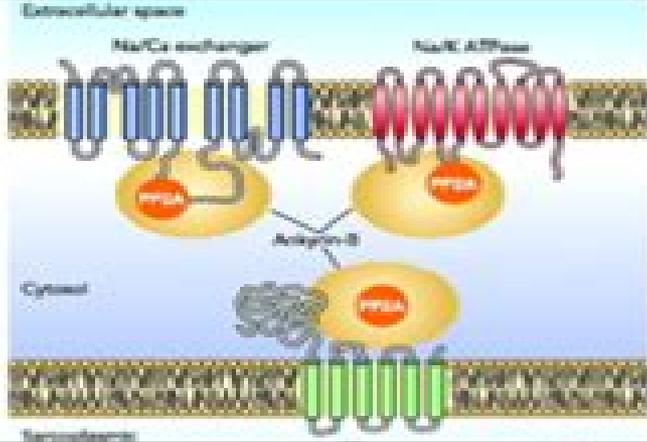
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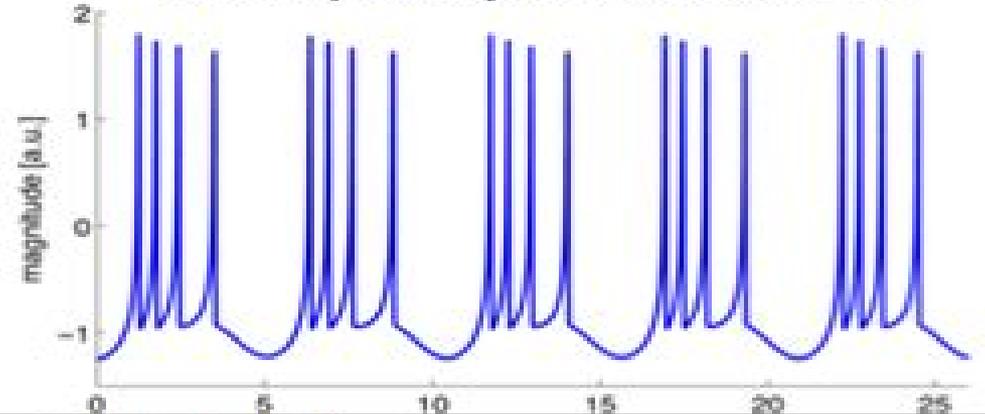
$$\begin{aligned} \dot{x} &= v_x \cos \theta \\ \dot{y} &= v_x \sin \theta \\ \dot{\theta} &= \omega \\ \dot{v}_x &= F \\ \dot{\omega} &= T \end{aligned}$$



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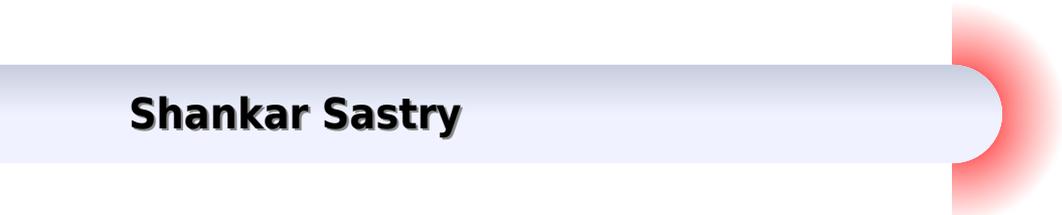
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Bursting in Biological Systems

Stability In Nonlinear Control Systems

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Stability of Nonlinear Control Systems Solomon Lefschetz, 1965 *Stability of Nonlinear Control Systems* Lefschetz, 1965-01-01 Stability of Nonlinear Control Systems 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

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

Practical Stability of Nonlinear Systems V. Lakshmikantham, S. Leela, A. A. Martynyuk, 1990 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 **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 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 in Nonlinear Control Systems. (ustoychivost' Nelineynykh Reguliruyemykh Sistem). A. M. Letov, FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO., 1963 The results of certain investigations of stability and the degree of stability of nonlinear control systems with one or two regulators are reported The problems considered concern what is called absolute stability i.e stability under unbounded perturbations with regulators of arbitrary nonlinear characteristics defined precisely only to the extent of their belonging to a certain class of functions A general study first begun by A I Lur'ye is developed

generalized and extended to cover a whole series of broader and more complicated classes of control systems and various methods are set forth for solving problems in the absolute stability of control systems Author 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

A STUDY OF ABSOLUTE STABILITY IN NONLINEAR CONTROL SYSTEMS. SUDHINDRANATH PYATI, 1966

Stability of Nonlinear Control Systems by the Second Method of Liapunov John E. Gibson, Eugene Steven McVey, Clive Douglas Leedham, PURDUE UNIV LAFAYETTE IND., Purdue University. School of Electrical Engineering, 1961 A report is made on the use of the second method of Liapunov as a tool for stability analysis of nonlinear control systems A pole shifting technique and a zero shifting technique extending the applicability of simplified stability criteria to systems that are stable for sufficiently high and or sufficiently low values of loop gain in a closed loop system are proposed New simplified stability criteria have been developed which incorporate the changes in the canonic form of differential equations caused by the application of the zero shifting technique **Nonlinear Control Systems** Zoran Vukic, 2003-02-04 This text emphasizes classical methods and presents essential analytical tools and strategies for the construction and development of improved design methods in nonlinear control It offers engineering procedures for the frequency domain as well as solved examples for clear understanding of control applications in the industrial electrical process manufacturing and automotive industries The authors discuss properties of nonlinear systems stability linearization methods operating modes and dynamic analysis methods phase trajectories in dynamic analysis of nonlinear systems and harmonic linearization in dynamic analysis of nonlinear control systems operating in stabilization mode **Stability and Stabilization of Nonlinear Systems** Dirk Aeyels, Françoise 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

Local Stabilizability of Nonlinear Control Systems Andrea Bacciotti,1992 This is one of the first books presenting stabilizability of nonlinear systems in a well organized and detailed way the problem its motivation features and results Control systems defined by ordinary differential equations are dealt with Many worked examples have been included The main focus is on the mathematical aspects of the problem but some important applications are also described This book will be suitable as a textbook for advanced university courses and also as a tool for control theorists and researchers An extensive list of references is included

Stability of Nonlinear Control Systems Richard Von Mises,1965

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

Determining Stability of Nonlinear Control Systems Via Lyapunov's Method John J. Komo,1963

Nonlinear Control Systems II Alberto Isidori,1999-09-22 This eagerly awaited follow up to *Nonlinear Control Systems* incorporates recent advances in the design of feedback laws for the purpose of globally stabilizing nonlinear systems via state or output feedback The author is one of the most prominent researchers in the field

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