

NONLINEAR SCIENCE

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FREQUENCY-DOMAIN METHODS FOR NONLINEAR ANALYSIS

Theory and Applications

by

G. A. Leonov, D. V. Ponomarenko & V. B. Smimova



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Frequencydomain Methods For Nonlinear Analysis Theory And Application

**Viet-Thanh Pham,Christos
Volos,Tomasz Kapitaniak**



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Frequency-domain Methods for Nonlinear Analysis Gennadi? Alekseevich Leonov,Dmitri? Viktorovich Ponomarenko,Vera B. Smirnova,1996 This book deals with the investigation of global attractors of nonlinear dynamical systems The exposition proceeds from the simplest attractor of a single equilibrium to more complicated ones i e to finite denumerable and continuum equilibria sets and further to cycles homoclinic and heteroclinic orbits and finally to strange attractors consisting of irregular unstable trajectories On the complicated equilibria sets the methods of Lyapunov stability theory are transferred They are combined with stability techniques specially elaborated for such sets The results are formulated as frequency domain criteria The methods connected with the theorems of existence of cycles and homoclinic orbits are developed The estimates of Hausdorff dimensions of attractors are presented Frequency-domain Methods For Nonlinear Analysis: Theory And Applications Gennady A Leonov,Dimitrij V Ponomarenko,V B Smirnova,1996-05-09 This book deals with the investigation of global attractors of nonlinear dynamical systems The exposition proceeds from the simplest attractor of a single equilibrium to more complicated ones i e to finite denumerable and continuum equilibria sets and further to cycles homoclinic and heteroclinic orbits and finally to strange attractors consisting of irregular unstable trajectories On the complicated equilibria sets the methods of Lyapunov stability theory are transferred They are combined with stability techniques specially elaborated for such sets The results are formulated as frequency domain criteria The methods connected with the theorems of existence of cycles and homoclinic orbits are developed The estimates of Hausdorff dimensions of attractors are presented Frequency Domain Analysis and Design of Nonlinear Systems based on Volterra Series Expansion Xingjian Jing,Ziqiang Lang,2015-02-17 This book is a systematic summary of some new advances in the area of nonlinear analysis and design in the frequency domain focusing on the application oriented theory and methods based on the GFRF concept which is mainly done by the author in the past 8 years The main results are formulated uniformly with a parametric characteristic approach which provides a convenient and novel insight into nonlinear influence on system output response in terms of characteristic parameters and thus facilitate nonlinear analysis and design in the frequency domain The book starts with a brief introduction to the background of nonlinear analysis in the frequency domain followed by recursive algorithms for computation of GFRFs for different parametric models and nonlinear output frequency properties Thereafter the parametric characteristic analysis method is introduced which leads to the new understanding and formulation of the GFRFs and nonlinear characteristic output spectrum nCOS and the nCOS based analysis and design method Based on the parametric characteristic approach nonlinear influence in the frequency domain can be investigated with a novel insight i e alternating series which is followed by some application results in vibration control Magnitude bounds of frequency response functions of nonlinear systems can also be studied with a parametric characteristic approach which result in novel parametric convergence criteria for any given parametric nonlinear model whose input output relationship allows a

convergent Volterra series expansion This book targets those readers who are working in the areas related to nonlinear analysis and design nonlinear signal processing nonlinear system identification nonlinear vibration control and so on It particularly serves as a good reference for those who are studying frequency domain methods for nonlinear systems The Bio-Inspired X-Structure/Mechanism Approach for Exploring Nonlinear Benefits in Engineering Xingjian Jing, 2025-07-04 This book presents a unique approach to the design and analysis of beneficial nonlinearity which can take an important and critical role in engineering systems and thus cannot be simply ignored in structural design dynamic response analysis and parameter selection A key issue in the area is thus systematically addressed about how to analyze and design potential nonlinearities introduced to or inherent in a system of under study which is a must do task in many practical applications involving vibration control energy harvesting sensor systems and robots etc This book together with several other books in this book series is to present an up to date summary on the most recent development of a cutting edge method for nonlinearity manipulation and employment developed in recent several years named as the X shaped structure or mechanism approach The X shaped structure or mechanism is a generic structure or mechanism representing a class of beneficial geometric nonlinearity with realizable and flexible linkage mechanism or structural design of different variants or forms quadrilateral diamond polygon K Z S V shape or others which all share similar geometric nonlinearity and thus similar nonlinear stiffness damping properties flexible in design and easy to implement This book is particularly to present a systematic frequency domain analysis design and optimization method of critical structural or control parameters in nonlinear systems including the X structure mechanism dynamics aiming at better dynamic performance and special nonlinear response as expected in engineering practice Cases studies in vehicle suspension energy harvesting fault detection and fuzzy membership optimization are all showcased The new analysis and design method introduced in this book definitely present a totally new and powerful approach to optimization and understanding of a class of nonlinear systems from a special frequency domain point of view Advances on Analysis and Control of Vibrations Mauricio Zapateiro, Francesc

Pozo, 2012-09-05 Vibration is a phenomenon that we can perceive in many systems Their effects are as diverse as the personal discomfort that can produce the unevenness of a road or the collapse of a building or a bridge during an earthquake This book is a compendium of research works on vibration analysis and control It goes through new methodologies that help us understand and mitigate this phenomenon This book is divided into two sections The first one is devoted to new advances on vibration analysis while the second part is a series of case studies that illustrate novel techniques on vibration control The applications are varied and include areas such as vehicle suspension systems wind turbines and civil engineering structures

Hopf Bifurcation Analysis: A Frequency Domain Approach Guanrong Chen, Jorge Luis Moiola, 1996-04-09 This book is devoted to the frequency domain approach for both regular and degenerate Hopf bifurcation analyses Besides showing that the time and frequency domain approaches are in fact equivalent the fact that many significant results and

computational formulas obtained in the studies of regular and degenerate Hopf bifurcations from the time domain approach can be translated and reformulated into the corresponding frequency domain setting and be reconfirmed and rediscovered by using the frequency domain methods is also explained The description of how the frequency domain approach can be used to obtain several types of standard bifurcation conditions for general nonlinear dynamical systems is given as well as is demonstrated a very rich pictorial gallery of local bifurcation diagrams for nonlinear systems under simultaneous variations of several system parameters In conjunction with this graphical analysis of local bifurcation diagrams the defining and nondegeneracy conditions for several degenerate Hopf bifurcations is presented With a great deal of algebraic computation some higher order harmonic balance approximation formulas are derived for analyzing the dynamical behavior in small neighborhoods of certain types of degenerate Hopf bifurcations that involve multiple limit cycles and multiple limit points of periodic solutions In addition applications in chemical mechanical and electrical engineering as well as in biology are discussed This book is designed and written in a style of research monographs rather than classroom textbooks so that the most recent contributions to the field can be included with references

Complex Sciences Jie Zhou, 2009-06-26 I was invited to join the Organizing Committee of the First International Conference on Complex Sciences Theory and Applications Complex 2009 as its ninth member At that moment eight distinguished colleagues General Co chairs Eugene Stanley and Gaoxi Xiao Technical Co chairs J nos Kert sz and Bing Hong Wang Local Co chairs Hengshan Wang and Hong An Che Publicity Team Shi Xiao and Yubo Wang had spent hundreds of hours pushing the conference half way to its birth Ever since then I have been amazed to see hundreds of papers flooding in reviewed and commented on by the TPC members Finally more than 200 contributions were lectured for the proceedings currently in your hands They include about 200 papers from the main conference selected from more than 320 submissions and about 33 papers from the five collated workshops Complexity Theory of Art and Music COART Causality in Complex Systems ComplexCCS Complex Engineering Networks ComplexEN Modeling and Analysis of Human Dynamics MANDYN Social Physics and its Applications SPA Complex sciences are expanding their colonies at such a dazzling speed that it comes literally impossible for any conference to cover all the frontiers

Mathematical Problems of Control Theory Gennadi? Alekseevich Leonov, 2001 This book shows clearly how the study of concrete control systems has motivated the development of the mathematical tools needed for solving such problems In many cases by using this apparatus far reaching generalizations have been made and its further development will have an important effect on many fields of mathematics In the book a way is demonstrated in which the study of the Watt flyball governor has given rise to the theory of stability of motion The criteria of controllability observability and stabilization are stated Analysis is made of dynamical systems which describe an autopilot spacecraft orientation system controllers of a synchronous electric machine and phase locked loops The Aizerman and Brockett problems are discussed and an introduction to the theory of discrete control systems is given Contents The Watt Governor and the Mathematical Theory of

Stability of Motion Linear Electric Circuits Transfer Functions and Frequency Responses of Linear Blocks Controllability Observability Stabilization Two Dimensional Control Systems Phase Portraits Discrete Systems The Aizerman Conjecture The Popov Method Readership Applied mathematicians and mechanical engineers Chaotic Dynamics In Hamiltonian Systems: With Applications To Celestial Mechanics Harry Dankowicz, 1997-12-16 In the past hundred years investigators have learned the significance of complex behavior in deterministic systems The potential applications of this discovery are as numerous as they are encouraging This text clearly presents the mathematical foundations of chaotic dynamics including methods and results at the forefront of current research The book begins with a thorough introduction to dynamical systems and their applications It goes on to develop the theory of regular and stochastic behavior in higher degree of freedom Hamiltonian systems covering topics such as homoclinic chaos KAM theory the Melnikov method and Arnold diffusion Theoretical discussions are illustrated by a study of the dynamics of small circumasteroidal grains perturbed by solar radiation pressure With alternative derivations and proofs of established results substituted for those in the standard literature this work serves as an important source for researchers students and teachers Skillfully combining in depth mathematics and actual physical applications this book will be of interest to the applied mathematician the theoretical mechanical engineer and the dynamical astronomer alike **Continuum Mechanics Via Problems and Exercises: Theory and problems** Margarita E.

Eglit, Dewey H. Hodges, 1996 These volumes are intended to help graduate level students of continuum mechanics become more proficient in its applications through the solution of analytical problems Areas covered include fluid mechanics thermodynamics elastic and inelastic solids electricity and dimensional analysis Part 2 consists of about 1000 solved problems **Dynamics and Control of Advanced Structures and Machines** Valerii P. Matveenko, Michael

Krommer, Alexander K. Belyaev, Hans Irschik, 2019-03-08 The volume includes 30 contributions from the 3rd International Workshop on Advanced Dynamics and Model Based Control of Structures and Machines representing the frontiers in the mechanics of controlled machines and structures The Workshop held in Perm Russia in September 2017 continued a series of international workshops starting in with the Japan Austria Joint Workshop on Mechanics and Model Based Control of Smart Materials and Structures the Russia Austria Joint Workshop on Advanced Dynamics and Model Based Control of Structures and Machines and the first two editions of the International Workshop on Advanced Dynamics and Model Based Control of Structures and Machines The previous workshops took place in Linz Austria in September 2008 and April 2010 in St Petersburg Russia in July 2012 and in Vienna Austria in September 2015 The up to date contributions are authored by internationally re known leading experts in dynamics and control representing a broad spectrum of topics in the field of Advanced Structures and Machines both with respect to theoretical aspects as well as applications to contemporary engineering problems **Systems with Hidden Attractors** Viet-Thanh Pham, Christos Volos, Tomasz Kapitaniak, 2017-03-10

This brief provides a general overview of nonlinear systems that exhibit hidden attractor behavior a topic of interest in

subjects as diverse as physics, mechanics, electronics and secure communications. The brief is intended for readers who want to understand the concepts of the hidden attractor and hidden attractor systems and to implement such systems experimentally using common electronic components. Emergent topics in circuit implementation of systems with hidden attractors are included. The brief serves as an up to date reference on an important research topic for undergraduate graduate students, laboratory researchers and lecturers in various areas of engineering and physics.

Continuum Mechanics Via Problems and Exercises Margarita E Eglit, Dewey H Hodges, 1996-10-28 This volume is intended to help graduate level students of Continuum Mechanics become more proficient in its applications through the solution of analytical problems. Published as two separate books Part I on Theory and Problems with Part II providing Solutions to the problems professors may also find it quite useful in preparing their lectures and examinations. Part I includes a brief theoretical treatment for each of the major areas of Continuum Mechanics: fluid mechanics, thermodynamics, elastic and inelastic solids, electricity, dimensional analysis and so on as well as the references for further reading. The bulk of Part II consists of about 1000 solved problems. The book includes bibliographical references and index.

Chaotic Dynamics In Two-dimensional Noninvertible Maps Alexandra Barugola, Jean-claude Cathala, Laura Gardini, Christian Mira, 1996-07-29 This book is essentially devoted to complex properties: Phase plane structure and bifurcations of two dimensional noninvertible maps i.e. maps having either a non unique inverse or no real inverse according to the plane point. They constitute models of sets of discrete dynamical systems encountered in Engineering, Control, Signal Processing, Electronics, Physics, Economics, Life Sciences. Compared to the studies made in the one dimensional case the two dimensional situation remained a long time in an underdeveloped state. It is only since these last years that the interest for this research has increased. Therefore the book purpose is to give a global presentation of a matter available till now only in a partial form. Fundamental notions and tools such as critical manifolds as the most part of results are accompanied by many examples and figures.

Emergent Properties in Natural and Artificial Dynamical Systems Moulay Aziz-Alaoui, Cyrille Bertelle, 2007-06-24 An important part of the science of complexity is the study of emergent properties arising through dynamical processes in various natural and artificial systems. This book presents multidisciplinary approaches for creating and modeling representations of complex systems and a variety of methods for extracting emergent structures. Offering bio complexity examples the coverage extends to self organization, synchronization, stability and robustness. The contributors include researchers in physics, engineering, biology and chemistry.

Interdisciplinary Research and Applications in Bioinformatics, Computational Biology, and Environmental Sciences Liu, Limin, Angela, Wei, Dongqing, Li, Yixue, 2010-10-31 This book presents cutting edge research in the field of computational and systems biology presenting studies ranging from the atomic molecular level to the genomic level and covering a wide spectrum of important biological problems and applications. Provided by publisher.

Attractor Dimension Estimates for Dynamical Systems: Theory and Computation Nikolay Kuznetsov, Volker Reitmann, 2020-07-02 This book

provides analytical and numerical methods for the estimation of dimension characteristics Hausdorff Fractal Carathéodory dimensions for attractors and invariant sets of dynamical systems and cocycles generated by smooth differential equations or maps in finite dimensional Euclidean spaces or on manifolds It also discusses stability investigations using estimates based on Lyapunov functions and adapted metrics Moreover it introduces various types of Lyapunov dimensions of dynamical systems with respect to an invariant set based on local global and uniform Lyapunov exponents and derives analytical formulas for the Lyapunov dimension of the attractors of the Hénon and Lorenz systems Lastly the book presents estimates of the topological entropy for general dynamical systems in metric spaces and estimates of the topological dimension for orbit closures of almost periodic solutions to differential equations

Condition Monitoring and Nonlinear Frequency

Analysis Based Fault Detection of Mechanical Vibration Systems Hogir Rafiq, 2023-08-26 Hogir Rafiq proposes two approaches the signal processing based condition monitoring approaches with applications to fault detection in gear systems and application of deep mathematical and system theoretical methods to fault detection The author develops the multivariate empirical mode decomposition MEMD algorithm to enhance the capability of extracting fault features and theoretical problems in nonlinear frequency analysis methods respectively The effectiveness has been demonstrated by an experimental study on a wind turbine gearbox test rig

Silicon and Beyond Michael Shur, Tor A. Fjeldly, 2000 The steady downscaling of device feature size combined with a rapid increase in circuit complexity as well as the introduction of new device concepts based on non silicon material systems poses great challenges for device and circuit designers One of the major tasks is the development of new and improved device models needed for accurate device and circuit design Another task is the development of new circuit simulation tools to handle very large and complex circuits This book addresses both these issues with up to date reviews written by leading experts in the field The first three chapters of the book discuss advanced device models both for existing technologies and for new emerging technologies Among the topics covered are models for MOSFETs thin film transistors TFTs and compound semiconductor devices including GaAs HEMTs and HFETs heterodimensional devices quantum tunneling devices as well as wide bandgap devices Chapters 4 and 5 discuss advanced circuit simulators that hold promise for handling circuits of much higher complexity than what is possible for typical state of the art circuit simulators today

Analele Științifice Ale Universității "Al. I. Cuza" Din Iași, 2004

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