FREQUENCY-DOMAIN METHODS FOR NONLINEAR ANALYSIS

Theory and Applications

by

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

Frequency Domain Methods For Nonlinear Analysis Theory And Application

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Frequency Domain Methods For Nonlinear Analysis Theory And Application:

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 **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 lected 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 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 **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   Continuum Mechanics Via Problems and Exercises: Answers and solutions 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   Fluid Physics - Lecture Notes Of Summer Schools Manuel G Velarde,C I Christov,1995-03-07 This book pays tribute to 25 Singaporean South Asians who pioneered and excelled in their respective fields from 1950 to 2015 It is meant to be a quick take on 25 Singaporean South Asian personalities across a broad spectrum of professions and activities who believed in the value and virtue of service to the community and gave the best of themselves They had a sense of mission in their professions dedicated to what they were doing and fostered a sense of community and nation Many of them laid foundations that triggered the transformation of the island including sportspeople whose records have stood the test of time They were a people of their time whose work many may not know but which we hope will inspire others This book is timely for those who want to get a snapshot appreciation of the contributions of Singaporean South Asians   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   Proceedings of the St. Petersburg Mathematical Society Nina Nikolaevna Ural'tseva,   Handbook of Stochastic Analysis and Applications D. Kannan,V. Lakshmikantham,2001-10-23 An introduction to general theories of stochastic processes and modern martingale theory The volume focuses on consistency stability and contractivity under geometric invariance in numerical analysis and discusses problems related to implementation simulation variable step size algorithms and random number generation   **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 spectrumof topics in the field of Advanced Structures and Machines both with respect to theoretical aspects as well as applications to contemporary engineering problems   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   *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   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   *Complex Systems and Self-organization Modelling* Cyrille Bertelle,Gérard H. E. Duchamp,Hakima Kadri-Dahmani,2008-12-03 This book the outcome of a workshop meeting within ESM 2006 explores the use of emergent computing and self organization modeling within various applications of complex systems   **From Order to Chaos** Leo P. Kadanoff,1993 World Scientific has made available a collection of Leo s reviews essays columns and commentaries which is a feast in several senses the strategy and tactics of science the science itself the history of several important developments in science and as a bonus a beautifully illustrated collection of essays on computational science The average reader may find this the final section of the book most interesting but for me the account of his discovery of scaling for which inexplicably he did not receive the Nobel prize is most intriguing Leo s combination of verve frankness and insight makes this a very good read P W AndersonPrinceton Univ Publication of this volume will be very useful especially for young readers The papers disseminated over many journals acquire a new quality by being collected together Readers not only can see a result in its final form but also can trace its evolution J Fluid Mechanics 1994The book is an invaluable source of information and inspiration ona variety of important problems in modern physics EMS 1999   **Dynamics, Bifurcations and Control** Fritz Colonius,Lars Grüne,2003-07-01 This volume originates from the Third Nonlinear Control Workshop namics Bifurcations and Control held in Kloster Irsee April 1 3 2001 As the preceding workshops held in Paris 2000 and in Ghent 1999 it was organized within the framework of Nonlinear Control Network funded by the European Union http www supelec fr lss NCN The papers in this volume center around those control problems where phenomena and methods from dynamical systems theory play a dominant role Despite the large variety of techniques and methods present in the c tributions a rough subdivision can be given into three areas Bifurcation problems stabilization and robustness and global dynamics of control s tems A large part of the fascination in nonlinear control stems from the fact that is deeply rooted in engineering and mathematics alike The contributions to this volume reflect this double nature of nonlinear control We would like to take this opportunity to thank all the contributors and the referees for their careful work Furthermore it is our pleasure to thank Franchise Lamnabhi Lagarrigue the coordinator of our network for her s port in organizing the workshop and the proceedings and for the tremendous efforts she puts into this network bringing the cooperation between the d ferent groups to a new level In particular the exchange and the active p ticipation of young scientists also reflected in the Pedagogical Schools within the Network is an asset for the field of nonlinear control   **Chua's Circuit: A Paradigm For Chaos** Rabinder N Madan,1993-11-20 For uninitiated researchers engineers and scientists interested in a quick entry into the subject of chaos this book offers a timely collection of 55 carefully selected papers covering almost every aspect of this subject Because Chua s circuit is endowed with virtually every bifurcation phenomena reported in the extensive literature on chaos and because it is the only chaotic system which can be

easily built by a novice simulated in a personal computer and tractable mathematically it has become a paradigm for chaos and a vehicle for illustrating this ubiquitous phenomenon Its supreme simplicity and robustness has made it the circuit of choice for generating chaotic signals for practical applications In addition to the 48 illuminating papers drawn from a recent two part Special Issue March and June 1993 of the Journal of Circuits Systems and Computers devoted exclusively to Chua s circuit several highly illustrative tutorials and incisive state of the art reviews on the latest experimental computational and analytical investigations on chaos are also included To enhance its pedagogical value a diskette containing a user friendly software and data base on many basic chaotic phenomena is attached to the book as well as a gallery of stunningly colorful strange attractors Beginning with an elementary freshman level physics introduction on experimental chaos the book presents a step by step guided tour with papers of increasing complexity which covers almost every conceivable aspects of bifurcation and chaos The second half of the book contains many original materials contributed by world renowned authorities on chaos including L P Shil nikov A N Sharkovsky M Misiurewicz A I Mees R Lozi L O Chua and V S Afraimovich The scope of topics covered is quite comprehensive including at least one paper on each of the following topics routes to chaos 1 D maps universality self similarity 2 parameter renormalization group analysis piecewise linear dynamics slow fast dynamics confinor analysis symmetry breaking strange attractors basins of attraction geometric invariants time series reconstruction Lyapunov exponents bispectral analysis homoclinic bifurcation stochastic resonance synchronization and control of chaos as well as several novel applications of chaos including secure communications visual sensing neural networks dry turbulence nonlinear waves and music **Scientific and Technical Aerospace Reports** ,1995 **Artificial Intelligence-Based Brain-Computer Interface** Varun Bajaj,G. R. Sinha,2022-02-04 Artificial Intelligence Based Brain Computer Interface provides concepts of AI for the modeling of non invasive modalities of medical signals such as EEG MRI and FMRI These modalities and their AI based analysis are employed in BCI and related applications The book emphasizes the real challenges in non invasive input due to the complex nature of the human brain and for a variety of applications for analysis classification and identification of different mental states Each chapter starts with a description of a non invasive input example and the need and motivation of the associated AI methods along with discussions to connect the technology through BCI Major topics include different AI methods techniques such as Deep Neural Networks and Machine Learning algorithms for different non invasive modalities such as EEG MRI FMRI for improving the diagnosis and prognosis of numerous disorders of the nervous system cardiovascular system musculoskeletal system respiratory system and various organs of the body The book also covers applications of AI in the management of chronic conditions databases and in the delivery of health services Provides readers with an understanding of key applications of Artificial Intelligence to Brain Computer Interface for acquisition and modelling of non invasive biomedical signal and image modalities for various conditions and disorders Integrates recent advancements of Artificial Intelligence to the evaluation of large amounts of

clinical data for the early detection of disorders such as Epilepsy Alcoholism Sleep Apnea motor imagery tasks classification and others Includes illustrative examples on how Artificial Intelligence can be applied to the Brain Computer Interface including a wide range of case studies in predicting and classification of neurological disorders

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