

Mathematics and Its Applications

A. Samoilenko and
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Multifrequency Oscillations of Nonlinear Systems



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Multifrequency Oscillations Of Nonlinear Systems

Viačeslav Mikhaïlovich Starzhinskii



Multifrequency Oscillations Of Nonlinear Systems:

Multifrequency Oscillations of Nonlinear Systems Anatolii M. Samoilenko, R. Petryshyn, 2014-01-15 **Multifrequency Oscillations of Nonlinear Systems** Anatolii M. Samoilenko, R. Petryshyn, 2006-04-11 In contrast to other books devoted to the averaging method and the method of integral manifolds in the present book we study oscillation systems with many varying frequencies In the process of evolution systems of this type can pass from one resonance state into another This fact considerably complicates the investigation of nonlinear oscillations In the present monograph a new approach based on exact uniform estimates of oscillation integrals is proposed On the basis of this approach numerous completely new results on the justification of the averaging method and its applications are obtained and the integral manifolds of resonance oscillation systems are studied This book is intended for a wide circle of research workers experts and engineers interested in oscillation processes as well as for students and post graduate students specialized in ordinary differential equations

Applied Asymptotic Methods in Nonlinear Oscillations Yuri A. Mitropolsky, Nguyen Van Dao, 2013-03-09 Many dynamical systems are described by differential equations that can be separated into one part containing linear terms with constant coefficients and a second part relatively small compared with the first containing nonlinear terms Such a system is said to be weakly nonlinear The small terms rendering the system nonlinear are referred to as perturbations A weakly nonlinear system is called quasi linear and is governed by quasi linear differential equations We will be interested in systems that reduce to harmonic oscillators in the absence of perturbations This book is devoted primarily to applied asymptotic methods in nonlinear oscillations which are associated with the names of N M Krylov N N Bogoliubov and Yu A Mitropolskii The advantages of the present methods are their simplicity especially for computing higher approximations and their applicability to a large class of quasi linear problems In this book we confine ourselves basically to the scheme proposed by Krylov Bogoliubov as stated in the monographs 6 211 We use these methods and also develop and improve them for solving new problems and new classes of nonlinear differential equations Although these methods have many applications in Mechanics Physics and Technique we will illustrate them only with examples which clearly show their strength and which are themselves of great interest A certain amount of more advanced material has also been included making the book suitable for a senior elective or a beginning graduate course on nonlinear oscillations *Analytical and Approximate Methods for Complex Dynamical Systems* Alexander Timokha, 2025-03-16 This book presents Analytical and Approximate Methods for Complex Dynamical Systems and introduces ideas of discontinuous mapping treated as complex dynamical systems Mathematicians of world recognized Ukrainian scientific schools established by M Krylov M Bogolyubov Yu Mitropolskiy and A Sharkovsky used to cooperate for writing the collective book whose purpose consists of illustrating a synergy of combining diverse by idea and technique constructive analytical and approximate approaches and methods in complex dynamical systems which are herein associated with mathematical models of networks conflict economic theories sloshing soft matter

and even levitating drops Readers are facilitated to learn contemporary insights fundamentals Parts I and III applications Part II and components of theories of bifurcation synchronization self organization collective dynamics chaos solitons fractional differential equations symmetry reduced order modelling and many others that makes the book useful for both graduate and postgraduate students lecturers researchers and even engineers dealing with multidimensional dynamic systems

Applied Methods in the Theory of Nonlinear Oscillations Viacheslav Mikhaïlovich Starzhinskiĭ, 1980

Theory Of Oscillations Vladimir Ivanovich Zubov, 1999-02-04 This monograph deals with the controlled non controlled nonlinear systems of differential equations A mathematical apparatus is developed to construct stationary conditions and to carry out studies on the behaviour of integral curves in the neighbourhood of such conditions Considerable coverage is given to existence and methods of finding periodic orbits and almost periodic solutions as well as to the description of the class of ergodic recurrent motions There is further treatment of the perturbation method and the theory of time independent and periodic perturbations in particular The theory developed here is applied to the construction and investigation of the neighbourhood of time independent conditions for nonlinear systems of automatic control and the control of charged particle beam in magnetic field Some other specific problems are also solved such as after effect systems and orbit quantization

The Behaviour of Nonlinear Vibrating Systems Wanda Szemplinska, 1990-06-30 The purpose of this book is to provide students practicing engineers and scientists with a treatment of nonlinear phenomena occurring in physical systems Although only mechanical models are used the theory applies to all physical systems governed by the same equations so that the book can be used to study nonlinear phenomena in other branches of engineering such as electrical engineering and aerospace engineering as well as in physics The book consists of two volumes Volume I is concerned with single degree of freedom systems and it presents the fundamental concepts of nonlinear analysis Both analytical methods and computer simulations are included The material is presented in such a manner that the book can be used as a graduate as well as an undergraduate textbook Volume II deals with multi degree of freedom systems Following an introduction to linear systems the volume presents fundamental concepts of geometric theory and stability of motion of general nonlinear systems as well as a concise discussion of basic approximate methods for the response of such systems The material represents a generalization of a series of papers on the vibration of nonlinear multi degree of freedom systems some of which were published by me and my associates during the period 1965 1983 and some are not yet published

Dynamical Systems and Methods Albert C. J. Luo, José António Tenreiro Machado, Dumitru Baleanu, 2011-09-30 Nonlinear Systems and Methods For Mechanical Electrical and Biosystems presents topics observed at the 3rd Conference on Nonlinear Science and Complexity NSC focusing on energy transfer and synchronization in hybrid nonlinear systems The studies focus on fundamental theories and principles analytical and symbolic approaches computational techniques in nonlinear physical science and mathematics Broken into three parts the text covers Parametrical excited pendulum nonlinear dynamics in hybrid systems dynamical

system synchronization and N 1 body dynamics as well as new views different from the existing results in nonlinear dynamics mathematical methods for dynamical systems including conservation laws dynamical symmetry in nonlinear differential equations and invex energies and nonlinear phenomena in physical problems such as solutions complex flows chemical kinetics Toda lattices and parallel manipulator This book is useful to scholars researchers and advanced technical members of industrial laboratory facilities developing new tools and products Deterministic Nonlinear Systems Vadim S.

Anishchenko, Tatyana E. Vadivasova, Galina I. Strelkova, 2014-06-16 This text is a short yet complete course on nonlinear dynamics of deterministic systems Conceived as a modular set of 15 concise lectures it reflects the many years of teaching experience by the authors The lectures treat in turn the fundamental aspects of the theory of dynamical systems aspects of stability and bifurcations the theory of deterministic chaos and attractor dimensions as well as the elements of the theory of Poincare recurrences Particular attention is paid to the analysis of the generation of periodic quasiperiodic and chaotic self sustained oscillations and to the issue of synchronization in such systems This book is aimed at graduate students and non specialist researchers with a background in physics applied mathematics and engineering wishing to enter this exciting field of research Analytical Methods in Nonlinear Oscillations Ebrahim Esmailzadeh, Davood Younesian, Hassan

Askari, 2018-06-29 This book covers both classical and modern analytical methods in nonlinear systems A wide range of applications from fundamental research to engineering problems are addressed The book contains seven chapters each with miscellaneous problems and their detailed solutions More than 100 practice problems are illustrated which might be useful for students and researchers in the areas of nonlinear oscillations and applied mathematics With providing real world examples this book shows the multidisciplinary emergence of nonlinear dynamical systems in a wide range of applications including mechanical and electrical oscillators micro nano resonators and sensors and also modelling of global warming epidemic diseases sociology chemical reactions biology and ecology *Elements of Mathematical Theory of Evolutionary Equations in Banach Spaces* Anatoly M. Samoilenko, Yuriy V. Teplinsky, 2013 Evolutionary equations are studied in abstract Banach spaces and in spaces of bounded number sequences For linear and nonlinear difference equations which are defined on finite dimensional and infinite dimensional tori the problem of reducibility is solved in particular in neighborhoods of their invariant sets and the basics for a theory of invariant tori and bounded semi invariant manifolds are established Also considered are the questions on existence and approximate construction of periodic solutions for difference equations in infinite dimensional spaces and the problem of extendibility of the solutions in degenerate cases For nonlinear differential equations in spaces of bounded number sequences new results are obtained in the theory of countable point boundary value problems The book contains new mathematical results that will be useful towards advances in nonlinear mechanics and theoretical physics **Biological Oscillators: Their Mathematical Analysis** Theodosios Pavlidis, 2012-12-02 Biological

Oscillators Their Mathematical Analysis introduces the main features of the dynamic properties of biological oscillators and

the mathematical techniques necessary for their investigation. It is not a comprehensive description of all known biological oscillators since this would require a much bigger volume as well as a different type of expertise. Instead, certain classes of biological oscillators are described and then only in as much detail as required for the study of their dynamics. The opening chapter reviews fundamental mathematical concepts and techniques which will be used in the remainder of the book. These include phase plane techniques, asymptotic techniques of Krylov, Bogoliubov and Mitropolski and the describing function. Subsequent chapters discuss examples of biological oscillators, phase shifts and phase response curves, the entrainment of oscillators by external inputs, the dynamics of circadian oscillators, effects of changing environment on the dynamics of biological oscillators, the features peculiar to populations of interacting oscillators and biological phenomena attributable to populations of oscillators.

Qualitative and Asymptotic Analysis of Differential Equations with Random Perturbations Anatoli? Mikha?lovich Samo?lenko, Oleksandr Stanzhytskyi, 2011. Differential equations with random perturbations are the mathematical models of real world processes that cannot be described via deterministic laws and their evolution depends on the random factors. The modern theory of differential equations with random perturbations is on the edge of two mathematical disciplines: random processes and ordinary differential equations. Consequently, the sources of these methods come both from the theory of random processes and from the classic theory of differential equations. This work focuses on the approach to stochastic equations from the perspective of ordinary differential equations. For this purpose, both asymptotic and qualitative methods which appeared in the classical theory of differential equations and nonlinear mechanics are developed.

Asymptotic Methods for Investigating QuasIWave Equations of Hyperbolic Type Yuri A. Mitropolsky, G. Khoma, M. Gromyak, 2012-12-06. The theory of partial differential equations is a wide and rapidly developing branch of contemporary mathematics. Problems related to partial differential equations of order higher than one are so diverse that a general theory can hardly be built up. There are several essentially different kinds of differential equations called elliptic, hyperbolic and parabolic. Regarding the construction of solutions of Cauchy, mixed and boundary value problems, each kind of equation exhibits entirely different properties. Cauchy problems for hyperbolic equations and systems with variable coefficients have been studied in classical works of Petrovskii, Leret, Courant, Gording. Mixed problems for hyperbolic equations were considered by Vishik, Ladyzhenskaya and that for general two dimensional equations were investigated by Bitsadze, Vishik, Gol'dberg, Ladyzhenskaya, Myshkis and others. In last decade, the theory of solvability on the whole of boundary value problems for nonlinear differential equations has received intensive development. Significant results for nonlinear elliptic and parabolic equations of second order were obtained in works of Gvazava, Ladyzhenskaya, Nakhushev, Oleinik, Skripnik and others. Concerning the solvability in general of nonlinear hyperbolic equations which are connected to the theory of local and nonlocal boundary value problems for hyperbolic equations, there are only partial results obtained by Bronshtein, Pokhozhev, Nakhushev.

Applied Mechanics Reviews, 1968. *Hierarchical Methods* V. Kulish, 2006-04-11.

Everybody is current in a world surrounded by computer Computers determine our professional activity and penetrate increasingly deeper into our everyday life Therein we also need increasingly refined computer technology Sometimes we think that the next generation of computer will satisfy all our dreams giving us hope that most of our urgent problems will be solved very soon However the future comes and illusions dissipate This phenomenon occurs and vanishes sporadically and possibly is a fundamental law of our life Experience shows that indeed systematically remaining problems are mainly of a complex technological nature the creation of new generation of especially perfect subschemes elements of memory etc But let us note that amongst these problems there are always ones solved by our purely intellectual efforts alone Progress in this direction does not require the invention of any superchip or other similar elements It is important to note that the results obtained in this way very often turn out to be more significant than the fruits of relevant technological progress The hierarchical asymptotic analytical numerical methods can be regarded as results of such purely intellectual efforts Their application allows us to simplify essentially computer calculational procedures and consequently to reduce the calculational time required It is obvious that this circumstance is very attractive to any computer user

Nonlinear Oscillations Ali H. Nayfeh, Dean T. Mook, 2024-11-12 Nonlinear Oscillations is a self contained and thorough treatment of the vigorous research that has occurred in nonlinear mechanics since 1970 The book begins with fundamental concepts and techniques of analysis and progresses through recent developments and provides an overview that abstracts and introduces main nonlinear phenomena It treats systems having a single degree of freedom introducing basic concepts and analytical methods and extends concepts and methods to systems having degrees of freedom Most of this material cannot be found in any other text Nonlinear Oscillations uses simple physical examples to explain nonlinear dispersive and nondispersive waves The notation is unified and the analysis modified to conform to discussions Solutions are worked out in detail for numerous examples results are plotted and explanations are couched in physical terms The book contains an extensive bibliography

Advances in Nonlinear Dynamics, Volume I Walter Lacarbonara, 2024-05-11 This volume aims to present the latest advancements in experimental analytical and numerical methodologies aimed at exploring the nonlinear dynamics of diverse systems across varying length and time scales It delves into the following topics Methodologies for nonlinear dynamic analysis harmonic balance asymptotic techniques enhanced time integration Data driven dynamics machine learning techniques Exploration of bifurcations and nonsmooth systems Nonlinear phenomena in mechanical systems and structures Experimental dynamics system identification and monitoring techniques Fluid structure interaction Dynamics of multibody systems Turning processes rotating systems and systems with time delays

Physical Fundamentals of Oscillations Leonid Chechurin, Sergej Chechurin, 2018-04-16 The book introduces possibly the most compact simple and physically understandable tool that can describe explain predict and design the widest set of phenomena in time variant and nonlinear oscillations The phenomena described include parametric resonances combined resonances instability of forced oscillations synchronization distributed

parameter oscillation and flatter parametric oscillation control robustness of oscillations and many others Although the realm of nonlinear oscillations is enormous the book relies on the concept of minimum knowledge for maximum understanding This unique tool is the method of stationarization or one frequency approximation of parametric resonance problem analysis in linear time variant dynamic systems The book shows how this can explain periodic motion stability in stationary nonlinear dynamic systems and reveals the link between the harmonic stationarization coefficients and describing functions As such the book speaks the language of control transfer functions frequency response Nyquist plot stability margins etc An understanding of the physics of stability loss is the basis for the design of new oscillation control methods for several of which are presented in the book These and all the other findings are illustrated by numerical examples which can be easily reproduced by readers equipped with a basic simulation package like MATLAB with Simulink The book offers a simple tool for all those travelling through the world of oscillations helping them discover its hidden beauty Researchers can use the method to uncover unknown aspects and as a reference to compare it with other for example abstract mathematical means Further it provides engineers with a minimalistic but powerful instrument based on physically measurable variables to analyze and design oscillatory systems

Nonlinear Dynamics of Chaotic and Stochastic Systems Vadim S.

Anishchenko, Vladimir Astakhov, Alexander Neiman, Tatjana Vadivasova, Lutz Schimansky-Geier, 2007-07-20 We present an improved and enlarged version of our book *Nonlinear Dynamics of Chaotic and Stochastic Systems* published by Springer in 2002 Basically the new edition of the book corresponds to its first version While preparing this edition we made some clarifications in several sections and also corrected the misprints noticed in some formulas Besides three new sections have been added to Chapter 2 They are Statistical Properties of Dynamical Chaos Effects of Synchronization in Extended Self Sustained Oscillatory Systems and Synchronization in Living Systems The sections indicated reflect the most interesting results obtained by the authors after publication of the first edition We hope that the new edition of the book will be of great interest for a wide section of readers who are already specialists or those who are beginning research in the fields of nonlinear oscillation and wave theory dynamical chaos synchronization and stochastic process theory Saratov Berlin and St Louis V S Anishchenko November 2006 A B Neiman T E Vadiavasova V V Astakhov L Schimansky Geier Preface to the First Edition

This book is devoted to the classical background and to contemporary results on nonlinear dynamics of deterministic and stochastic systems Considerable attention is given to the effects of noise on various regimes of dynamic systems with noise induced order On the one hand there exists a rich literature of excellent books on nonlinear dynamics and chaos on the other hand there are many marvelous monographs and textbooks on the statistical physics of far from equilibrium and stochastic processes This book is an attempt to combine the approach of nonlinear dynamics based on the deterministic evolution equations with the approach of statistical physics based on stochastic or kinetic equations One of our main aims is to show the important role of noise in the organization and properties of dynamic regimes of nonlinear dissipative systems

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