

N. N. Bogolubov Ju. A. Mitropol'skiy
A. M. Samoilenko

Methods of Accelerated Convergence in Nonlinear Mechanics



Springer-Verlag Berlin Heidelberg New York

Methods Of Accelerated Convergence In Nonlinear Mechanics

Jan A. Sanders, Ferdinand Verhulst



Methods Of Accelerated Convergence In Nonlinear Mechanics:

Methods of Accelerated Convergence in Nonlinear Mechanics Nikolai Nikolaevich Bogoliubov, Anatolii Mikhaïlovich Samoilenko, 1976 **Methods of Accelerated Convergence in Nonlinear Mechanics** N.N. Bogoljubov, J.A. Mitropoliskii, A.M. Samoilenko, 2012-08-14 This monograph deals with some of the latest results in nonlinear mechanics obtained recently by the use of a modernized version of Bogoljubov's method of successive changes of variables which ensures rapid convergence This method visualised as early as 1934 by Krylov and Bogoljubov provides an effective tool for solving many interesting problems of nonlinear mechanics It led in particular to the solution of the problem of the existence of a quasi periodic regime with the restriction that approximate solutions obtained in the general case involved divergent series Recently making use of the research of Kolmogorov and Arnold Bogoljubov has modernised the method of successive substitutions in such a way that the convergence of the corresponding expansions is ensured This book consists of a short Introduction and seven chapters The first chapter presents the results obtained by Bogoljubov in 1963 on the extension of the method of successive substitutions and the study of quasi periodic solutions applied to non conservative systems inter alia making explicit the dependence of these solutions on the parameter indicating methods of obtaining asymptotic and convergent series for them etc *Averaging Methods in Nonlinear Dynamical Systems* Jan A. Sanders, Ferdinand Verhulst, 2013-04-17 In this book we have developed the asymptotic analysis of nonlinear dynamical systems We have collected a large number of results scattered throughout the literature and presented them in a way to illustrate both the underlying common theme as well as the diversity of problems and solutions While most of the results are known in the literature we added new material which we hope will also be of interest to the specialists in this field The basic theory is discussed in chapters two and three Improved results are obtained in chapter four in the case of stable limit sets In chapter five we treat averaging over several angles here the theory is less standardized and even in our simplified approach we encounter many open problems Chapter six deals with the definition of normal form After making the somewhat philosophical point as to what the right definition should look like we derive the second order normal form in the Hamiltonian case using the classical method of generating functions In chapter seven we treat Hamiltonian systems The resonances in two degrees of freedom are almost completely analyzed while we give a survey of results obtained for three degrees of freedom systems The appendices contain a mix of elementary results expansions on the theory and research problems Statistical Mechanics And The Physics Of Many-particle Model Systems Alexander Leonidovich Kuzemsky, 2017-02-24 The book is devoted to the study of the correlation effects in many particle systems It presents the advanced methods of quantum statistical mechanics equilibrium and nonequilibrium and shows their effectiveness and operational ability in applications to problems of quantum solid state theory quantum theory of magnetism and the kinetic theory The book includes description of the fundamental concepts and techniques of analysis following the approach of N N Bogoliubov's

school including recent developments It provides an overview that introduces the main notions of quantum many particle physics with the emphasis on concepts and models This book combines the features of textbook and research monograph For many topics the aim is to start from the beginning and to guide the reader to the threshold of advanced researches Many chapters include also additional information and discuss many complex research areas which are not often discussed in other places The book is useful for established researchers to organize and present the advanced material disseminated in the literature The book contains also an extensive bibliography The book serves undergraduate graduate and postgraduate students as well as researchers who have had prior experience with the subject matter at a more elementary level or have used other many particle techniques

Differential Equations K.D. Elworthy, 2017-11-22 Presents recent developments in the areas of differential equations dynamical systems and control of finite and infinite dimensional systems Focuses on current trends in differential equations and dynamical system research from parameter dependence of solutions to robust control laws for infinite dimensional systems

Asymptotic Methods in Resonance Analytical Dynamics Eugeniu Grebenikov, Yu. A. Mitropolsky, Y.A. Ryabov, 2004-03-02 Asymptotic Methods in Resonance Analytical Dynamics presents new asymptotic methods for the analysis and construction of solutions mainly periodic and quasiperiodic of differential equations with small parameters Along with some background material and theory behind these methods the authors also consider a variety of problems and applications in nonlinear mechanics and oscillation theory The methods examined are based on two types the generalized averaging technique of Krylov Bogolubov and the numeric analytical iterations of Lyapunov Poincaré This text provides a useful source of reference for postgraduates and researchers working in this area of applied mathematics

Countable Systems of Differential Equations Anatolii M. Samoilenko, Yu. V. Teplinskii, 2011-07-11 No detailed description available for Countable Systems of Differential Equations

Computational Methods with MATLAB® Erik Cuevas, Alberto Luque, Héctor Escobar, 2023-08-24 This textbook provides readers a comprehensive introduction to numerical methods using MATLAB The authors discuss the theory and application of the most often used numerical methods using MATLAB as a computational tool The book is designed to be accessible to readers of varying backgrounds so the presentation focuses more on the description implementation and application of the methods and less on the mathematical details This book not only covers the most important methods and techniques of scientific computation but also contains a great amount of code and implementations facilitating the process of learning and application

Asymptotic Methods in Mechanics Rami Vaillancourt, Andrei L. Smirnov, 1993-12-21 Asymptotic methods constitute an important area of both pure and applied mathematics and have applications to a vast array of problems This collection of papers is devoted to asymptotic methods applied to mechanical problems primarily thin structure problems The first section presents a survey of asymptotic methods and a review of the literature including the considerable body of Russian works in this area This part may be used as a reference book or as a textbook for advanced undergraduate or graduate students in mathematics or engineering The

second part presents original papers containing new results Among the key features of the book are its analysis of the general theory of asymptotic integration with applications to the theory of thin shells and plates and new results about the local forms of vibrations and buckling of thin shells which have not yet made their way into other monographs on this subject

An Introduction to Nonlinear Oscillations Ronald E. Mickens, 1981 An introductory account of the equations describing nonlinear oscillations the methods for solving them

Synergetics Hermann Haken, 2004-01-12 This book is an often requested reprint of two classic texts by H Haken *Synergetics An Introduction* and *Advanced Synergetics* Synergetics an interdisciplinary research program initiated by H Haken in 1969 deals with the systematic and methodological approach to the rapidly growing field of complexity Going well beyond qualitative analogies between complex systems in fields as diverse as physics chemistry biology sociology and economics Synergetics uses tools from theoretical physics and mathematics to construct an unifying framework within which quantitative descriptions of complex self organizing systems can be made This may well explain the timelessness of H Haken s original texts on this topic which are now recognized as landmarks in the field of complex systems They provide both the beginning graduate student and the seasoned researcher with solid knowledge of the basic concepts and mathematical tools Moreover they admirably convey the spirit of the pioneering work by the founder of Synergetics through the essential applications contained herein that have lost nothing of their paradigmatic character since they were conceived

Oscillatory Evolution Processes Igor Gumowski, 1989 Very Good No Highlights or Markup all pages are intact

Generalized Inverse Operators Alexander Andreevych Boichuk, Anatolii M. Samoilenko, 2016-08-22 The book is devoted to the foundations of the theory of boundary value problems for various classes of systems of differential operator equations whose linear part is represented by Fredholm operators of the general form A common point of view on numerous classes of problems that were traditionally studied independently of each other enables us to study in a natural way the theory of these problems to supplement and improve the existing results and in certain cases study some of these problems for the first time With the help of the technique of generalized inverse operators the Vishik Lyusternik method and iterative methods we perform a detailed investigation of the problems of existence bifurcations and branching of the solutions of linear and nonlinear boundary value problems for various classes of differential operator systems and propose new procedures for their construction For more than 11 years that have passed since the appearance of the first edition of the monograph numerous new publications of the authors in this direction have appeared In this connection it became necessary to make some additions and corrections to the previous extensively cited edition which is still of significant interest for the researchers For researchers teachers post graduate students and students of physical and mathematical departments of universities Contents Preliminary Information Generalized Inverse Operators in Banach Spaces Pseudoinverse Operators in Hilbert Spaces Boundary Value Problems for Operator Equations Boundary Value Problems for Systems of Ordinary Differential Equations Impulsive Boundary Value Problems for Systems of Ordinary Differential

Equations Solutions of Differential and Difference Systems Bounded on the Entire Real Axis **Functions on Manifolds: Algebraic and Topological Aspects** Vladimir Vasil'evich Sharko, 1993 This monograph covers in a unified manner new results on smooth functions on manifolds A major topic is Morse and Bott functions with a minimal number of singularities on manifolds of dimension greater than five Sharko computes obstructions to deformation of one Morse function into another on a simply connected manifold In addition a method is developed for constructing minimal chain complexes and homotopical systems in the sense of Whitehead This leads to conditions under which Morse functions on non simply connected manifolds exist Sharko also describes new homotopical invariants of manifolds which are used to substantially improve the Morse inequalities The conditions guaranteeing the existence of minimal round Morse functions are discussed Advanced Synergetics Hermann Haken, 2012-12-06 This text on the interdisciplinary field of synergetics will be of interest to students and scientists in physics chemistry mathematics biology electrical civil and mechanical engineering and other fields It continues the outline of basic concepts and methods presented in my book *Synergetics An Introduction* which has by now appeared in English Russian Japanese Chinese and German I have written the present book in such a way that most of it can be read independently of my previous book though occasionally some knowledge of that book might be useful But why do these books address such a wide audience Why are instabilities such a common feature and what do devices and self organizing systems have in common Self organizing systems acquire their structures or functions without specific interference from outside The differentiation of cells in biology and the process of evolution are both examples of self organization Devices such as the electronic oscillators used in radio transmitters on the other hand are man made But we often forget that in many cases devices function by means of processes which are also based on self organization In an electronic oscillator the motion of electrons becomes coherent without any coherent driving force from the outside the device is constructed in such a way as to permit specific collective motions of the electrons Quite evidently the dividing line between self organizing systems and man made devices is not at all rigid *A Course in Mathematical and Statistical Ecology* Anil Gore, S.A. Paranjpe, 2000-12-31 A Course in Mathematical and Statistical Ecology Magnetohydrodynamic Equilibrium and Stability of Stellarators F. Bauer, O. Betancourt, P. Garabedian, 2012-12-06 In this book we describe in detail a numerical method to study the equilibrium and stability of a plasma confined by a strong magnetic field in toroidal geometry without two dimensional symmetry The principal application is to stellarators which are currently of interest in thermonuclear fusion research Our mathematical model is based on the partial differential equations of ideal magnetohydrodynamics The main contribution is a computer code named BETA that is listed in the final chapter This work is the natural continuation of an investigation that was presented in an early volume of the Springer Series in Computational Physics of 3 It has been supported over a period of years by the U S Department of Energy under Contract DE AC02 76ER03077 with New York University We would like to express our gratitude to Dr Franz Herrnegger for the assistance he has given us with the

preparation of the manuscript We are especially indebted to Connie Engle for the high quality of the final typescript New York F BAUER October 1983 O BETANCOURT P GARABEDIAN Contents 1 Introduction 1 2 Synopsis of the Method 3 1 Variational principle 3 2 Coordinate system 6 3 Finite Difference Scheme 8 1 Difference equations 8 2 Island structure 10 3 Accelerated iteration procedure 12 Nonlinear Stability 15 4 1 Second minimization 15 2 Test functions and convergence studies 17 3 Comparison with exact solutions 19 5 The Mercier Criterion 22 1 Local mode analysis 22 2 Computational method 23

Classical Dynamics and Its Quantum Analogues David Park, 2012-12-06 The short Heroic Age of physics that started in 1925 was one of the rare occasions when a deep consideration of the question What does physics really say was necessary in carrying out numerical calculations In many parts of microphysics the calculations have now become relatively straightforward if not easy but most physicists seem to agree that some questions of principle remain to be resolved even if they do not think it is very important to do so This situation has affected the way people think and write about quantum mechanics a gingerly approach to fundamentals and a tendency to emphasize what fifty years ago was new in the new theory at the expense of continuity with what came before it Nowadays those who look into the subject are more likely to be struck by unexpected similarities between quantum and classical mechanics than by dramatic contrasts they had been led to expect It is often said that the hardest part of understanding quantum mechanics is to understand that there is nothing to understand all the same to think quantum mechanically it helps to have firm mental connections with classical physics and to know exactly what these connections do and do not imply This book originated more than a decade ago as informal lecture notes OP prepared for use in a course taught from time to time to advanced undergraduates at Williams College

Quasi-Periodic Motions in Families of Dynamical Systems Hendrik W. Broer, George B. Huitema, Mikhail B. Sevryuk, 2009-01-25 This book is devoted to the phenomenon of quasi periodic motion in dynamical systems Such a motion in the phase space densely fills up an invariant torus This phenomenon is most familiar from Hamiltonian dynamics Hamiltonian systems are well known for their use in modelling the dynamics related to frictionless mechanics including the planetary and lunar motions In this context the general picture appears to be as follows On the one hand Hamiltonian systems occur that are in complete order these are the integrable systems where all motion is confined to invariant tori On the other hand systems exist that are entirely chaotic on each energy level In between we know systems that being sufficiently small perturbations of integrable ones exhibit coexistence of order invariant tori carrying quasi periodic dynamics and chaos the so called stochastic layers The Kolmogorov Arnold Moser KAM theory on quasi periodic motions tells us that the occurrence of such motions is open within the class of all Hamiltonian systems in other words it is a phenomenon persistent under small Hamiltonian perturbations Moreover generally for any such system the union of quasi periodic tori in the phase space is a nowhere dense set of positive Lebesgue measure a so called Cantor family This fact implies that open classes of Hamiltonian systems exist that are not ergodic The main aim of the book is to study the changes in this picture when other classes of

systems or contexts are considered Dichotomies and Stability in Nonautonomous Linear Systems Yu. A. Mitropolsky, A.M. Samoilenko, V.L. Kulik, 2002-10-10 Linear nonautonomous equations arise as mathematical models in mechanics chemistry and biology The investigation of bounded solutions to systems of differential equations involves some important and challenging problems of perturbation theory for invariant toroidal manifolds This monograph is a detailed study of the application of Lyapunov functions with variable sign expressed in quadratic forms to the solution of this problem The authors explore the preservation of invariant tori of dynamic systems under perturbation This volume is a classic contribution to the literature on stability theory and provides a useful source of reference for postgraduates and researchers

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Table of Contents Methods Of Accelerated Convergence In Nonlinear Mechanics

1. Understanding the eBook Methods Of Accelerated Convergence In Nonlinear Mechanics
 - The Rise of Digital Reading Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Methods Of Accelerated Convergence In Nonlinear Mechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Personalized Recommendations
 - Methods Of Accelerated Convergence In Nonlinear Mechanics User Reviews and Ratings
 - Methods Of Accelerated Convergence In Nonlinear Mechanics and Bestseller Lists
5. Accessing Methods Of Accelerated Convergence In Nonlinear Mechanics Free and Paid eBooks
 - Methods Of Accelerated Convergence In Nonlinear Mechanics Public Domain eBooks
 - Methods Of Accelerated Convergence In Nonlinear Mechanics eBook Subscription Services
 - Methods Of Accelerated Convergence In Nonlinear Mechanics Budget-Friendly Options
6. Navigating Methods Of Accelerated Convergence In Nonlinear Mechanics eBook Formats
 - ePub, PDF, MOBI, and More
 - Methods Of Accelerated Convergence In Nonlinear Mechanics Compatibility with Devices
 - Methods Of Accelerated Convergence In Nonlinear Mechanics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Highlighting and Note-Taking Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Interactive Elements Methods Of Accelerated Convergence In Nonlinear Mechanics

8. Staying Engaged with Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Methods Of Accelerated Convergence In Nonlinear Mechanics
9. Balancing eBooks and Physical Books Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Methods Of Accelerated Convergence In Nonlinear Mechanics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Setting Reading Goals Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Fact-Checking eBook Content of Methods Of Accelerated Convergence In Nonlinear Mechanics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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