



Igor V. Novozhilov

Fractional Analysis

Methods of Motion
Decomposition

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Fractional Analysis Methods Of Motion Decomposition

Michael Hoelscher



Fractional Analysis Methods Of Motion Decomposition:

Fractional Analysis I.V. Novozhilov, 2012-12-06 This book considers methods of approximate analysis of mechanical electromechanical and other systems described by ordinary differential equations Modern mathematical modeling of sophisticated mechanical systems consists of several stages first construction of a mechanical model and then writing appropriate equations and their analytical or numerical examination Usually this procedure is repeated several times Even if an initial model correctly reflects the main properties of a phenomenon it describes as a rule many unnecessary details that make equations of motion too complicated As experience and experimental data are accumulated the researcher considers simpler models and simplifies the equations Thus some terms are discarded the order of the equations is lowered and so on This process requires time experimentation and the researcher's intuition A good example of such a semi-experimental way of simplifying is a gyroscopic precession equation Formal mathematical proofs of its admissibility appeared some several decades after its successful introduction in engineering calculations Applied mathematics now has at its disposal many methods of approximate analysis of differential equations Application of these methods could shorten and formalize the procedure of simplifying the equations and thus of constructing approximate motion models Wide application of the methods into practice is hindered by the following 1 Descriptions of various approximate methods are scattered over the mathematical literature The researcher as a rule does not know what method is most suitable for a specific case 2

Asymptotic Methods for Ordinary Differential Equations R.P. Kuzmina, 2013-06-29 In this book we consider a Cauchy problem for a system of ordinary differential equations with a small parameter The book is divided into three parts according to three ways of involving the small parameter in the system In Part 1 we study the quasiregular Cauchy problem That is a problem with the singularity included in a bounded function j which depends on time and a small parameter This problem is a generalization of the regularly perturbed Cauchy problem studied by Poincaré 35 Some differential equations which are solved by the averaging method can be reduced to a quasiregular Cauchy problem As an example in Chapter 2 we consider the van der Pol problem In Part 2 we study the Tikhonov problem This is a Cauchy problem for a system of ordinary differential equations where the coefficients by the derivatives are integer degrees of a small parameter **Asymptotical**

Mechanics of Thin-Walled Structures Igor V. Andrianov, Jan Awrejcewicz, Leonid Isaakovich Manevich, 2004-01-12 In this book a detailed and systematic treatment of asymptotic methods in the theory of plates and shells is presented The main features of the book are the basic principles of asymptotics and its applications traditional approaches such as regular and singular perturbations as well as new approaches such as the composite equations approach The book introduces the reader to the field of asymptotic simplification of the problems of the theory of plates and shells and will be useful as a handbook of methods of asymptotic integration Providing a state of the art review of asymptotic applications this book will be useful as an introduction to the field for novices as well as a reference book for specialists *Invariant Manifolds for Physical and*

Chemical Kinetics Alexander N. Gorban, Iliya V. Karlin, 2005-02-01 By bringing together various ideas and methods for extracting the slow manifolds the authors show that it is possible to establish a more macroscopic description in nonequilibrium systems The book treats slowness as stability A unifying geometrical viewpoint of the thermodynamics of slow and fast motion enables the development of reduction techniques both analytical and numerical Examples considered in the book range from the Boltzmann kinetic equation and hydrodynamics to the Fokker Planck equations of polymer dynamics and models of chemical kinetics describing oxidation reactions Special chapters are devoted to model reduction in classical statistical dynamics natural selection and exact solutions for slow hydrodynamic manifolds The book will be a major reference source for both theoretical and applied model reduction Intended primarily as a postgraduate level text in nonequilibrium kinetics and model reduction it will also be valuable to PhD students and researchers in applied mathematics physics and various fields of engineering *Journal of analysis and its applications* ,1982 *Multibody Dynamics* 2019

Andrés Kecskeméthy, Francisco Geu Flores, 2019-06-28 In this work outstanding recent developments in various disciplines such as structural dynamics multiphysic mechanics computational mathematics control theory biomechanics and computer science are merged together in order to provide academicians and professionals with methods and tools for the virtual prototyping of complex mechanical systems Each chapter of the work represents an important contribution to multibody dynamics a discipline that plays a central role in the modelling analysis simulation and optimization of mechanical systems in a variety of fields and for a wide range of applications *Applied Mechanics Reviews* ,1985 **Handbook on Thermal Hydraulics in Water-Cooled Nuclear Reactors** Francesco D'Auria, Yassin A. Hassan, 2024-07-29 Handbook on Thermal Hydraulics of Water Cooled Nuclear Reactors Volume 1 Foundations and Principles includes all new chapters which delve deeper into the topic adding context and practical examples to help readers apply learnings to their own setting Topics covered include experimental thermal hydraulics and instrumentation numerics scaling and containment in thermal hydraulics as well as a title dedicated to good practices in verification and validation This book will be a valuable reference for graduate and undergraduate students of nuclear or thermal engineering as well as researchers in nuclear thermal hydraulics and reactor technology engineers working in simulation and modeling of nuclear reactors and more In addition nuclear operators code developers and safety engineers will also benefit from the practical guidance provided Presents a comprehensive analysis on the connection between nuclear power and thermal hydraulics Includes end of chapter questions quizzes and exercises to confirm understanding and provides solutions in an appendix Covers applicable nuclear reactor safety considerations and design technology throughout *Revue D'analyse Numérique Et de Théorie de L'approximation* ,1997 *IAENG Transactions on Engineering Technologies* Haeng Kon Kim, Sio-Long Ao, Burghard B. Rieger, 2012-09-05 This volume contains thirty revised and extended research articles written by prominent researchers participating in an international conference in engineering technologies and physical science and applications The conference serves as good

platforms for the engineering community to meet with each other and to exchange ideas The conference has also struck a balance between theoretical and application development The conference is truly international meeting with a high level of participation from many countries Topics covered include chemical engineering circuits communications systems control theory engineering mathematics systems engineering manufacture engineering and industrial applications The book offers the state of art of tremendous advances in engineering technologies and physical science and applications and also serves as an excellent reference work for researchers and graduate students working with on engineering technologies and physical science and applications

Fractional-Order Models for Nuclear Reactor Analysis Gilberto Espinosa Paredes,2020-10-22 Fractional Order Models for Nuclear Reactor Analysis presents fractional modeling issues in the context of anomalous diffusion processes in an accessible and practical way The book emphasizes the importance of non Fickian diffusion in heterogeneous systems as the core of the nuclear reactor as well as different variations of diffusion processes in nuclear reactors which are presented to establish the importance of nuclear and thermohydraulic phenomena and the physical side effects of feedback In addition the book analyzes core issues in fractional modeling in nuclear reactors surrounding phenomenological description and important analytical sub diffusive processes in the transport neutron Users will find the most innovative modeling techniques of nuclear reactors using operator differentials of fractional order and applications in nuclear design and reactor dynamics Proposed methods are tested with Boltzmann equations and non linear order models alongside real data from nuclear power plants making this a valuable resource for nuclear professionals researchers and graduate students as well as those working in nuclear research centers with expertise in mathematical modeling physics and control Presents and analyzes a new paradigm of nuclear reactor phenomena with fractional modeling Considers principles of fractional calculation methods of solving differential equations of fractional order and their applications Includes methodologies of linear and nonlinear analysis along with design and dynamic analyses

Mathematical Topics on Modelling Complex Systems J. A. Tenreiro Machado,Dimitri Volchenkov,2022-06-08 This book explores recent developments in theoretical research and mathematical modelling of real world complex systems organized in four parts The first part of the book is devoted to the mathematical tools for the design and analysis in engineering and social science study cases We discuss the periodic evolutions in nonlinear chemical processes vibro compact systems and their behaviour different types of metal semiconductor self assembled samples made of silver nanowires and zinc oxide nanorods The second part of the book is devoted to mathematical description and modelling of the critical events climate change and robust emergency scales In three chapters we consider a climate economy model with endogenous carbon intensity and the behaviour of Tehran Stock Exchange market under international sanctions The third part of the book is devoted to fractional dynamic and fractional control problems We discuss the novel operational matrix technique for variable order fractional optimal control problems the nonlinear variable order time fractional convection diffusion equation with generalized polynomials The fourth part of the

book concerns solvability and inverse problems in differential and integro differential equations The book facilitates a better understanding of the mechanisms and phenomena in nonlinear dynamics and develops the corresponding mathematical theory to apply nonlinear design to practical engineering It can be read by mathematicians physicists complex systems scientists IT specialists civil engineers data scientists and urban planners

Modeling and Analysis of Modern Fluid Problems Liancun Zheng,Xinxin Zhang,2017-04-26 Modeling and Analysis of Modern Fluids helps researchers solve physical problems observed in fluid dynamics and related fields such as heat and mass transfer boundary layer phenomena and numerical heat transfer These problems are characterized by nonlinearity and large system dimensionality and exact solutions are impossible to provide using the conventional mixture of theoretical and analytical analysis with purely numerical methods To solve these complex problems this work provides a toolkit of established and novel methods drawn from the literature across nonlinear approximation theory It covers Pad approximation theory embedded parameters perturbation Adomian decomposition homotopy analysis modified differential transformation fractal theory fractional calculus fractional differential equations as well as classical numerical techniques for solving nonlinear partial differential equations In addition 3D modeling and analysis are also covered in depth Systematically describes powerful approximation methods to solve nonlinear equations in fluid problems Includes novel developments in fractional order differential equations with fractal theory applied to fluids Features new methods including Homotopy Approximation embedded parameter perturbation and 3D models and analysis

Medical Imaging Systems Technology Volume 1: Analysis And Computational Methods Cornelius T Leondes,2005-08-25 This scholarly set of well harmonized volumes provides indispensable and complete coverage of the exciting and evolving subject of medical imaging systems Leading experts on the international scene tackle the latest cutting edge techniques and technologies in an in depth but eminently clear and readable approach Complementing and intersecting one another each volume offers a comprehensive treatment of substantive importance to the subject areas The chapters in turn address topics in a self contained manner with authoritative introductions useful summaries and detailed reference lists Extensively well illustrated with figures throughout the five volumes as a whole achieve a unique depth and breath of coverage As a cohesive whole or independent of one another the volumes may be acquired as a set or individually

Methods of Mathematical Modelling Harendra Singh,Hari M Srivastava,Dumitru Baleanu,2022-06-10 Methods of Mathematical Modeling Infectious Diseases presents computational methods related to biological systems and their numerical treatment via mathematical tools and techniques Edited by renowned experts in the field Dr Hari Mohan Srivastava Dr Dumitru Baleanu and Dr Harendra Singh the book examines advanced numerical methods to provide global solutions for biological models These results are important for medical professionals biomedical engineers mathematicians scientists and researchers working on biological models with real life applications The authors deal with methods as well as applications including stability analysis of biological models bifurcation

scenarios chaotic dynamics and non linear differential equations arising in biology The book focuses primarily on infectious disease modeling and computational modeling of other real world medical issues including COVID 19 smoking cancer and diabetes The book provides the solution of these models so as to provide actual remedies Includes mathematical modeling for a variety of infectious diseases and disease processes including SIR SIRA COVID 19 cancer smoking and diabetes Offers a complete and foundational understanding of modeling algorithms and techniques such as stability analysis bifurcation scenarios chaotic dynamics and non linear differential equations Provides readers with datasets for applied learning of the various algorithms and modeling techniques Fractional Fields and Applications Serge Cohen, Jacques Istas, 2013-05-29

This book focuses mainly on fractional Brownian fields and their extensions It has been used to teach graduate students at Grenoble and Toulouse s Universities It is as self contained as possible and contains numerous exercises with solutions in an appendix After a foreword by Stéphane Jaffard a long first chapter is devoted to classical results from stochastic fields and fractal analysis A central notion throughout this book is self similarity which is dealt with in a second chapter with a particular emphasis on the celebrated Gaussian self similar fields called fractional Brownian fields after Mandelbrot and Van Ness s seminal paper Fundamental properties of fractional Brownian fields are then stated and proved The second central notion of this book is the so called local asymptotic self similarity in short lass which is a local version of self similarity defined in the third chapter A lengthy study is devoted to lass fields with finite variance Among these lass fields we find both Gaussian fields and non Gaussian fields called Levy fields The Levy fields can be viewed as bridges between fractional Brownian fields and stable self similar fields A further key issue concerns the identification of fractional parameters This is the raison d'être of the statistics chapter where generalized quadratic variations methods are mainly used for estimating fractional parameters Last but not least the simulation is addressed in the last chapter Unlike the previous issues the simulation of fractional fields is still an area of ongoing research The algorithms presented in this chapter are efficient but do not claim to close the debate

The Classical Stefan Problem S.C. Gupta, 2017-10-13 The Classical Stefan Problem Basic Concepts Modelling and Analysis with Quasi Analytical Solutions and Methods New Edition provides fundamental theory concepts modelling and analysis of the physical mathematical thermodynamical and metallurgical properties of classical Stefan and Stefan like problems as applied to heat transfer problems involving phase changes such as from liquid to solid This self contained work reports and derives the results from tensor analysis differential geometry non equilibrium thermodynamics physics and functional analysis and is thoroughly enriched with many appropriate references for an in depth background reading on theorems This new edition includes more than 400 pages of new material on quasi analytical solutions and methods of classical Stefan and Stefan like problems The book aims to bridge the gap between the theoretical and solution aspects of the afore mentioned problems Provides both the phenomenology and mathematics of Stefan problems Bridges physics and mathematics in a concrete and readable manner Presents well organized chapters that start with proper

definitions followed by explanations and references for further reading Includes both numerical and quasi analytical solutions and methods of classical Stefan and Stefan like problems Applications of Semi-Analytical Methods for Nanofluid Flow and Heat Transfer Mohsen Sheikholeslami,Davood Domairry Ganji,2018-01-02 Application of Semi Analytical Methods for Nanofluid Flow and Heat Transfer applies semi analytical methods to solve a range of engineering problems After various methods are introduced their application in nanofluid flow and heat transfer magnetohydrodynamic flow electrohydrodynamic flow and heat transfer and nanofluid flow in porous media within several examples are explored This is a valuable reference resource for materials scientists and engineers that will help familiarize them with a wide range of semi analytical methods and how they are used in nanofluid flow and heat transfer The book also includes case studies to illustrate how these methods are used in practice Presents detailed information giving readers a complete familiarity with governing equations where nanofluid is used as working fluid Provides the fundamentals of new analytical methods applying them to applications of nanofluid flow and heat transfer in the presence of magnetic and electric field Gives a detailed overview of nanofluid motion in porous media *Wavelet Numerical Method and Its Applications in Nonlinear Problems* You-He Zhou,2021-03-09 This book summarizes the basic theory of wavelets and some related algorithms in an easy to understand language from the perspective of an engineer rather than a mathematician In this book the wavelet solution schemes are systematically established and introduced for solving general linear and nonlinear initial boundary value problems in engineering including the technique of boundary extension in approximating interval bounded functions the calculation method for various connection coefficients the single point Gaussian integration method in calculating the coefficients of wavelet expansions and unique treatments on nonlinear terms in differential equations At the same time this book is supplemented by a large number of numerical examples to specifically explain procedures and characteristics of the method as well as detailed treatments for specific problems Different from most of the current monographs focusing on the basic theory of wavelets it focuses on the use of wavelet based numerical methods developed by the author over the years Even for the necessary basic theory of wavelet in engineering applications this book is based on the author s own understanding in plain language instead of a relatively difficult professional mathematical description This book is very suitable for students researchers and technical personnel who only want to need the minimal knowledge of wavelet method to solve specific problems in engineering **Symmetry and Exact Solutions of Nonlinear Mathematical Physics Equations** Gangwei Wang,Xiangpeng Xin ,Samir A. El-Tantawy,2024-08-13 Nonlinear problems originating from applied science that is closely related to practices contain rich and extensive content It makes the corresponding nonlinear models also complex and diverse Due to the intricacy and contingency of nonlinear problems unified mathematical methods still remain far and few between In this regard the comprehensive use of symmetric methods along with other mathematical methods becomes an effective option to solve nonlinear problems

The Enigmatic Realm of **Fractional Analysis Methods Of Motion Decomposition**: Unleashing the Language is Inner Magic

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