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New methods and problems in fractional calculus

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New Methods Problems Fractional Calculus

Anatoly Kochubei,Yuri Luchko

New Methods Problems Fractional Calculus:

Recent Improvements in the Theory of Chaotic Attractors René Lozi,Lyudmila Efremova,Michal Pluháček,2025-02-19 This book presents some exceptional developments in chaotic attractor theory encompassing several new directions of research such as three dimensional axiom A diffeomorphisms Shilnikov attractors dendrites and finite graphs The theory of chaotic attractors has experienced exceptional development over the last fifty years since the revelation of chaos in mathematics invented by James Yorke and symbolized by the butterfly effect Relevant new results have been collected in this book including Some remarks on minimal sets on dendrites and finite graphs and the study of recurrence and nonwandering sets of local dendrite maps Ramified continua as global attractors of C1 smooth self maps of a cylinder close to skew products Chaotic behaviour of countable products of homeomorphism groups and dynamics of three dimensional axiom A diffeomorphisms with two dimensional attractors and repellers The search for invariant sets of the generalized tent map and quasi hyperbolic regime in a certain family of 2 D piecewise linear map Shilnikov attractors of three dimensional flows and maps right fractional calculus to inverse time chaotic maps and asymptotic stability analysis and diffeomorphisms with infinitely many Smale horseshoes The theory of chaotic attractor is also used as a core for evolutionary algorithms and metaheuristic optimizers in this volume This book will be of great value to students and researchers in mathematics physics engineering and related disciplines seeking to deepen their understanding of chaotic dynamical systems and their applications The chapters in this book were originally published in Journal of Difference Equations and Applications **New Methods and Problems in Fractional Calculus** MILICI Constantin,Draganescu Gheorghe,2015-12-09 The aim of this book is to present a series of problems not yet investigated in the field of fractional differential equations There are presented also a series of examples in the field of symbolic computation written in Maple and Mathematica It is introduced a new definition of the fractional derivative in terms of translation operator We introduced a new method based on decomposition method and Laplace transform is presented in our previous LAP book We studied also the fractional differential equations with the aid small parameter method We used also the power series method In the Chapter 5 it was established some predictor corrector methods for fractional differential equations of type Adams Moulton Adams Bashforth and Adams Bashforth Moulton We investigated also the fractional integral equations It was generalized the Galerkin and Ritz methods to the case of fractional differential equations This book is addressed to a large category of readers working in the field of fundamental and applied mathematics theoretical physics and experimental methods in physics and engineering Nonlinear Analysis: Problems, Applications and Computational Methods Zakia Hammouch,Hemen Dutta,Said Melliani,Michael Ruzhansky,2020-11-13 This book is a collection of original research papers as proceedings of the 6th International Congress of the Moroccan Society of Applied Mathematics organized by Sultan Moulay Slimane University Morocco during 7th 9th November 2019 It focuses on new problems applications and computational methods in the field of nonlinear analysis It includes various topics including

fractional differential systems of various types time fractional systems nonlinear Jerk equations reproducing kernel Hilbert space method thrombin receptor activation mechanism model labour force evolution model nonsmooth vector optimization problems anisotropic elliptic nonlinear problem viscous primitive equations of geophysics quadratic optimal control problem multi orthogonal projections and generalized continued fractions The conference aimed at fostering cooperation among students researchers and experts from diverse areas of applied mathematics and related sciences through fruitful deliberations on new research findings This book is expected to be resourceful for researchers educators and graduate students interested in applied mathematics and interactions of mathematics with other branches of science and engineering

Basic Theory Anatoly Kochubei,Yuri Luchko,2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects Fractional Integrals and Derivatives: “True” versus “False” Yuri Luchko,2021-03-16 This Special Issue is devoted to some serious problems that the Fractional Calculus FC is currently confronted with and aims at providing some answers to the questions like What are the fractional integrals and derivatives What are their decisive mathematical properties What fractional operators make sense in applications and why etc In particular the new fractional derivatives and integrals and the models with these fractional order operators are critically addressed The Special Issue contains both the surveys and the research contributions A part of the articles deals with foundations of FC that are considered from the viewpoints of the pure and applied mathematics and the system theory Another part of the Special issue addresses the applications of the FC operators and the fractional differential equations Several articles devoted to the numerical treatment of the FC operators and the fractional differential equations complete the Special Issue **Analytical Methods for Nonlinear Oscillators and Solitary Waves** Chu-Hui He,Hamid M. Sedighi,Ji-Huan He,Yusry El-Dib,Dragan Marinkovic,2023-11-24 The most well known analytical method is the perturbation method which has led to the great discovery of Neptune in 1846 and since then mathematical prediction and empirical observation became two sides of a coin in physics However the perturbation method is based on the small parameter assumption and the obtained solutions are valid only for weakly nonlinear equations which have greatly limited their applications to modern physical problems To overcome the shortcomings many mathematicians and physicists have been extensively developing various technologies for several centuries however there is no universal method for all nonlinear problems and mathematical prediction with remarkably high accuracy is still much needed for modern physics for example the solitary waves traveling along an unsmooth boundary the low frequency property of a harvesting energy device the pull in voltage in a micro electromechanical system Now various effective analytical methods have appeared in the open literature e g the homotopy perturbation method and the variational iteration method An analytical solution provides a fast

insight into its physical properties of a practical problem e g frequency amplitude relation of a nonlinear oscillator solitary wave in an optical fiber pull in instability of a microelectromechanical system making mathematical prediction even more attractive in modern physics Nonlinear physics has been developing into a new stage where the fractal fractional differential equations have to be adopted to describe more accurately discontinuous problems and it becomes ever more difficult to find an analytical solution for such nonlinear problems and the analytical methods for fractal fractional differential equations have laid the foundations for nonlinear physics Mechanics of Time-Dependent Materials and Proccesses in Conventional and Multifunctional Materails, Volume 3 Tom Proulx,2025-08-07 Mechanics of Time Dependent Materials and Processes in Conventional and Multifunctional Materials represents one of eight volumes of technical papers presented at the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics held at Uncasville Connecticut June 13 16 2011 The full set of proceedings also includes volumes on Dynamic Behavior of Materials Mechanics of Biological Systems and Materials MEMS and Nanotechnology Optical Measurements Modeling and Metrology Experimental and Applied Mechanics Thermomechanics and Infra Red Imaging and Engineering Applications of Residual Stress Handbook of Differential Equations Daniel Zwillinger,1998 This book compiles the most widely applicable methods for solving and approximating differential equations as well as numerous examples showing the methods use Topics include ordinary differential equations symplectic integration of differential equations and the use of wavelets when numerically solving differential equations For nearly every technique the book provides The types of equations to which the method is applicable The idea behind the method The procedure for carrying out the method At least one simple example of the method Any cautions that should be exercised Notes for more advanced users References to the literature for more discussion or more examples including pointers to electronic resources such as URLs *Dynamic Equations on Time Scales and Applications* Ravi P Agarwal,Bipan Hazarika,Sanket Tikare,2024-10-18 This book presents the theory of dynamic equations on time scales and applications providing an overview of recent developments in the foundations of the field as well as its applications It discusses the recent results related to the qualitative properties of solutions like existence and uniqueness stability continuous dependence controllability oscillations etc Presents cutting edge research trends of dynamic equations and recent advances in contemporary research on the topic of time scales Connects several new areas of dynamic equations on time scales with applications in different fields Includes mathematical explanation from the perspective of existing knowledge of dynamic equations on time scales Offers several new recently developed results which are useful for the mathematical modeling of various phenomena Useful for several interdisciplinary fields like economics biology and population dynamics from the perspective of new trends The text is for postgraduate students professionals and academic researchers working in the fields of Applied Mathematics **Discontinuity and Complexity in Nonlinear Physical Systems** J. A. Tenreiro Machado,Dumitru Baleanu,Albert C J Luo,2013-12-04 Discontinuity in Nonlinear Physical Systems explores recent

developments in experimental research in this broad field organized in four distinct sections Part I introduces the reader to the fractional dynamics and Lie group analysis for nonlinear partial differential equations Part II covers chaos and complexity in nonlinear Hamiltonian systems important to understand the resonance interactions in nonlinear dynamical systems such as Tsunami waves and wildfire propagations as well as Lev flights in chaotic trajectories dynamical system synchronization and DNA information complexity analysis Part III examines chaos and periodic motions in discontinuous dynamical systems extensively present in a range of systems including piecewise linear systems vibro impact systems and drilling systems in engineering And in Part IV engineering and financial nonlinearity are discussed The mechanism of shock wave with saddle node bifurcation and rotating disk stability will be presented and the financial nonlinear models will be discussed

Mathematical Analysis and Numerical Methods Aliaa Burqan,Rania Saadeh,Ahmad Qazza,Osama Yusuf Ababneh,Juan C. Cortés,Kai Diethelm,Dia Zeidan,2024-10-05 This book presents a thoughtful compilation of chapters derived from the proceedings of the 8th International Arab Conference on Mathematics and Computations IACMC 2023 held at Zarqa University in Zarqa Jordan from 10 12 May 2023 Encompassing a broad spectrum of themes crucial to contemporary research and development the book delved into subjects ranging from partial and differential equations to fractional calculus from probability and statistics to graph theory and from approximation theory to nonlinear dynamics Moreover it explores pivotal areas such as numerical analysis and methods as well as fostering interdisciplinary mathematical research initiatives Building upon the legacy of its predecessors IACMC 2023 served as a premier platform for scholars researchers and industry professionals to converge and exchange insights on a myriad of cutting edge advancements and practical applications within the realm of mathematical sciences This volume encapsulates the essence of IACMC 2023 offering readers a comprehensive overview of the latest breakthroughs and trends in mathematical sciences while serving as a testament to the collaborative spirit and intellectual vigor that define this esteemed conference series **Challenges in Automation, Robotics and Measurement Techniques** Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,2016-02-15 This book presents the set of papers accepted for presentation at the International Conference Automation held in Warsaw 2 4 March of 2016 It presents the research results presented by top experts in the fields of industrial automation control robotics and measurement techniques Each chapter presents a thorough analysis of a specific technical problem which is usually followed by numerical analysis simulation and description of results of implementation of the solution of a real world problem The presented theoretical results practical solutions and guidelines will be valuable for both researchers working in the area of engineering sciences and for practitioners solving industrial problems **Approximation Theory XVI** Gregory E. Fasshauer,Marian Neamtu,Larry L. Schumaker,2021-01-04 These proceedings are based on the international conference Approximation Theory XVI held on May 19 22 2019 in Nashville Tennessee The conference was the sixteenth in a series of meetings in Approximation Theory held at various locations in the United States Over 130 mathematicians from 20 countries

attended The book contains two longer survey papers on nonstationary subdivision and Prony s method along with 11 research papers on a variety of topics in approximation theory including Balian Low theorems butterfly spline interpolation cubature rules Hankel and Toeplitz matrices phase retrieval positive definite kernels quasi interpolation operators stochastic collocation the gradient conjecture time variant systems and trivariate finite elements The book should be of interest to mathematicians engineers and computer scientists working in approximation theory computer aided geometric design numerical analysis and related approximation areas *Bounded and Compact Integral Operators* David E. Edmunds,V.M Kokilashvili,Alexander Meskhi,2013-06-29 The monograph presents some of the authors recent and original results concerning boundedness and compactness problems in Banach function spaces both for classical operators and integral transforms defined generally speaking on nonhomogeneous spaces Itfocuses onintegral operators naturally arising in boundary value problems for PDE the spectral theory of differential operators continuum and quantum mechanics stochastic processes etc The book may be considered as a systematic and detailed analysis of a large class of specific integral operators from the boundedness and compactness point of view A characteristic feature of the monograph is that most of the statements proved here have the form of criteria These criteria enable us for example togive var ious explicit examples of pairs of weighted Banach function spaces governing boundedness compactness of a wide class of integral operators The book has two main parts The first part consisting of Chapters 1 5 covers theinvestigation ofclassical operators Hardy type transforms fractional integrals potentials and maximal functions Our main goal is to give a complete description of those Banach function spaces in which the above mentioned operators act boundedly com pactly When a given operator is not bounded compact for example in some Lebesgue space we look for weighted spaces where boundedness compact ness holds We develop the ideas and the techniques for the derivation of appropriate conditions in terms of weights which are equivalent to bounded ness compactness **Methods of Mathematical Modelling and Computation for Complex Systems** Jagdev Singh,Hemen Dutta,Devendra Kumar,Dumitru Baleanu,Jordan Hristov,2021-08-26 This book contains several contemporary topics in the areas of mathematical modelling and computation for complex systems The readers find several new mathematical methods mathematical models and computational techniques having significant relevance in studying various complex systems The chapters aim to enrich the understanding of topics presented by carefully discussing the associated problems and issues possible solutions and their applications or relevance in other scientific areas of study and research The book is a valuable resource for graduate students researchers and educators in understanding and studying various new aspects associated with complex systems Key Feature The chapters include theory and application in a mix and balanced way Readers find reasonable details of developments concerning a topic included in this book The text is emphasized to present in self contained manner with inclusion of new research problems and questions *Synergies in Analysis, Discrete Mathematics, Soft Computing and Modelling* P. V. Subrahmanyam,V. Antony Vijesh,Balasubramaniam

Jayaram,Prakash Veeraraghavan,2023-02-02 This book contains select papers on mathematical analysis and modeling discrete mathematics fuzzy sets and soft computing All the papers were presented at the international conference on FIM28 SCMSPS20 virtually held at Sri Sivasubramaniya Nadar SSN College of Engineering Chennai India and Stella Maris College Autonomous Chennai from November 23 27 2020 The conference was jointly held with the support of the Forum for Interdisciplinary Mathematics Both the invited articles and submitted papers were broadly grouped under three heads Part 1 on analysis and modeling six chapters Part 2 on discrete mathematics and applications six chapters and Part 3 on fuzzy sets and soft computing three chapters *Proceedings of International Conference on Computational Intelligence and Computing* Jyotsna Kumar Mandal,Joyanta Kumar Roy,2021-07-28 This book includes the original peer reviewed research articles from the International Conference on Computational Intelligence and Computing ICCIC 2020 held in September 2020 on a virtual platform jointly organized by SR Group of Institutions Jhansi India IETE Kolkata Centre India and Eureka Scientech Research Foundation Kolkata India It covers the latest research in image processing computer vision and pattern recognition machine learning data mining big data and analytics information security and privacy wireless and sensor networks and IoT applications artificial intelligence expert systems natural language processing image processing computer vision artificial neural networks fuzzy logic evolutionary optimization rough sets web intelligence intelligent agent technology virtual reality and visualization Symmetry in Complex Systems J. A. Tenreiro Machado,António M. Lopes,2021-01-21 Complex systems with symmetry arise in many fields at various length scales including financial markets social transportation telecommunication and power grid networks world and country economies ecosystems molecular dynamics immunology living organisms computational systems and celestial and continuum mechanics The emergence of new orders and structures in complex systems means symmetry breaking and transitions from unstable to stable states Modeling complexity has attracted many researchers from different areas dealing both with theoretical concepts and practical applications This Special Issue fills the gap between the theory of symmetry based dynamics and its application to model and analyze complex systems **Mathematics Applied to Engineering, Modelling, and Social Issues** Frank T. Smith,Hemen Dutta,John N. Mordeson,2019-03-14 This book presents several aspects of research on mathematics that have significant applications in engineering modelling and social matters discussing a number of current and future social issues and problems in which mathematical tools can be beneficial Each chapter enhances our understanding of the research problems in a particular an area of study and highlights the latest advances made in that area The self contained contributions make the results and problems discussed accessible to readers and provides references to enable those interested to follow subsequent studies in still developing fields Presenting real world applications the book is a valuable resource for graduate students researchers and educators It appeals to general readers curious about the practical applications of mathematics in diverse scientific areas and social problems **Fractional Modeling and Controller**

Design of Robotic Manipulators Abhaya Pal Singh,Dipankar Deb,Himanshu Agrawal,Valentina E. Balas,2020-10-15 This book at hand is an appropriate addition to the field of fractional calculus applied to control systems If an engineer or a researcher wishes to delve into fractional order systems then this book has many collections of such systems to work upon and this book also tells the reader about how one can convert an integer order system into an appropriate fractional order one through an efficient and simple algorithm If the reader further wants to explore the controller design for the fractional order systems then for them this book provides a variety of controller design strategies The use of fractional order derivatives and integrals in control theory leads to better results than integer order approaches and hence provides solid motivation for further development of control theory Fractional order models are more useful than the integer order models when accuracy is of paramount importance Real time experimental validation of controller design strategies for the fractional order plants is available This book is beneficial to the academic institutes for postgraduate and advanced research level that need a specific textbook on fractional control and its applications in srobotic manipulators The book is also a valuable teaching and learning resource for undergraduate and postgraduate students

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