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Gheorghe Draganescu

New methods and problems in fractional calculus

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New Methods Problems Fractional Calculus

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Fractional Calculus: New Applications in Understanding Nonlinear Phenomena Mehmet Yavuz, Necati Özdemir, 2022-12-14 In the last two decades many new fractional operators have appeared often defined using integrals with special functions in the kernel as well as their extended or multivariable forms Modern operators in fractional calculus have different properties which are comparable to those of classical operators These have been intensively studied for modelling and analysing real world phenomena There is now a growing body of research on new methods to understand natural occurrences and tackle different problems This book presents ten reviews of recent fractional operators split over three sections 1 Chaotic Systems and Control covers the Caputo fractional derivative and a chaotic fractional order financial system 2 Heat Conduction covers the Duhamel theorem for time dependent source terms and the Cattaneo Hristov model for oscillatory heat transfer 3 Computational Methods and Their Illustrative Applications covers mathematical analysis for understanding 5 real world phenomena HTLV 1 infection of CD4 T cells traveling waves rumor spreading biochemical reactions and the computational fluid dynamics of a non powered floating object navigating in an approach channel This volume is a resource for researchers in physics biology behavioral sciences and mathematics who are interested in new applications of fractional calculus in the study of nonlinear phenomena

Recent Developments in Fractional Calculus: Theory, Applications, and Numerical Simulations Lakhveer Kaur, Pushpendra Kumar, 2025-05-30 This book discusses recent developments in fractional calculus and fractional differential equations in a very elaborative manner and is of interest to research scholars academicians and scientists who want to enhance the knowledge in the context of new insights and mathematical ideas in fractional calculus and its emerging applications in various fields It focuses on strengthening the existing results along with identifying the practical challenges encountered The purpose of this collection is to provide comprehension of articles that reflect recent mathematical results as well as some results in applied sciences untouched by the tools and techniques of fractional calculus along with their modelling and computation having applications in diverse arenas

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

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

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

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

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

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 C^1 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 **Fixed Point Theory and Fractional Calculus** Pradip Debnath,H. M. Srivastava,Poom Kumam,Bipan Hazarika,2022-05-10 This book collects chapters on fixed point theory and fractional calculus and their applications in science and engineering It discusses state of the art developments in these two areas through original new contributions from scientists across the world It contains several useful tools and techniques to develop their skills and expertise in fixed point theory and fractional calculus New research directions are also indicated in chapters This book is meant for graduate students and researchers willing to expand their knowledge in these areas The minimum prerequisite for readers is the graduate level knowledge of analysis topology and functional analysis *Theoretical Developments and Applications of Non-Integer Order Systems* Stefan Domek,Paweł Dworak,2015-08-20 This volume is devoted to presentation of new results of research on systems of non integer order called also fractional systems Their analysis and practical implementation have been the object of spontaneous development for a few last decades The fractional order models can depict a physical plant better than the classical integer order ones This covers different research fields such as insulator properties visco elastic materials electrodynamic electrothermal electrochemical economic processes modelling etc On the other hand fractional controllers often outperform their integer order counterparts This volume contains new ideas and examples of implementation theoretical and pure practical aspects of using a non integer order calculus It is divided into four parts covering mathematical fundamentals modeling and approximations controllability observability and stability problems and practical applications of fractional control systems The first part expands the base of tools and methods of the mathematical basis for non integer order calculus Part two focuses on new methods and developments in process modeling and fractional derivatives approximations In the third part a bunch of papers which raise problems of controllability observability and stability of non integer order systems is provided Part four is devoted to presentation of different fractional order control applications This book was created thanks to many experts in the field of fractional calculus authors anonymous referees whose comments allowed us to improve the final form of the papers and active and inspiring discussion of the participants of RRNR 2015 the 7th Conference on Non Integer Order Calculus and Its Applications that was organized by the Faculty of Electrical Engineering West Pomeranian University of Technology Szczecin Poland Mechanics of Time-Dependent Materials and Processes in Conventional and Multifunctional Materials, Volume 3 Tom Proulx,2011-05-21 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 *Mathematical Methods in Medical and Biological Sciences* Harendra Singh, Hari M Srivastava, 2024-11-05 *Mathematical Methods in Medical and Biological Sciences* presents mathematical methods for computational models arising in the medical and biological sciences The book presents several real life medical and biological models such as infectious and non infectious diseases that can be modeled mathematically to accomplish profound research in virtual environments when the cost of laboratory expenses is relatively high It focuses on mathematical techniques that provide global solutions for models arising in medical and biological sciences by considering their long term benefits In addition the book provides leading edge developments and insights for a range of applications including epidemiological modeling of pandemic dynamics viral infection developments cancer developments blood oxygen dynamics HIV infection spread reaction diffusion models polio infection spread and chaos modeling with fractional order derivatives Presents the mathematical treatment of a wide range of real life medical and biological models including both infectious and non infectious diseases Provides in depth analysis of the spread of Covid 19 polio and HIV including discussion of computational methods and applications Includes computational modeling methods along with their practical applications providing the basis for further exploration and research in epidemiology and applied biomedical sciences *Mechanics of Time-Dependent Materials and Processes in Conventional and Multifunctional Materials, 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 Fractional Calculus for Engineering and Science* Harendra Singh, H. M. Srivastava, Juan J. Nieto, 2022-02-16 Fractional calculus is used to model many real life situations from science and engineering The book includes different topics associated with such equations and their relevance and significance in various scientific areas of study and research In this book readers will find several important and useful methods and techniques for solving various types of fractional order models in science and engineering The book should be useful for graduate students PhD students researchers and educators interested in mathematical modelling physical sciences engineering sciences applied mathematical sciences applied sciences and so on This Handbook Provides reliable methods for solving fractional order models in science and engineering Contains efficient numerical methods and algorithms for engineering related equations Contains comparison of various methods for accuracy and validity Demonstrates the applicability of fractional calculus in science and engineering Examines qualitative as well as quantitative properties of

solutions of various types of science and engineering related equations Readers will find this book to be useful and valuable in increasing and updating their knowledge in this field and will be it will be helpful for engineers mathematicians scientist and researchers working on various real life problems IUTAM Symposium on Dynamics Modeling and Interaction Control in Virtual and Real Environments Gábor Stépán,László L. Kovács,András Tóth,2011-07-01 This volume contains the invited papers presented at the IUTAM Symposium on Multibody Dynamics and Interaction Control in Virtual and Real Environments held in Budapest Hungary June 7 11 2010 The symposium aimed to bring together specialists in the fields of multibody system modeling contact collision mechanics and control of mechanical systems The offered topics included modeling aspects mechanical and mathematical models the question of neglections and simplifications reduction of large systems interaction with environment like air water and obstacles contact of all types control concepts control stability and optimization Discussions between experts in these fields made it possible to exchange ideas about the recent advances in multibody system modeling and interaction control as well as about the possible future trends The presentations of recent scientific results may facilitate the interaction between scientific areas like system control engineering and mechanical engineering Papers on dynamics modeling and interaction control were selected to cover the main areas mathematical modeling dynamic analysis friction modeling solid and thermomechanical aspects and applications A significant outcome of the meeting was the opening towards applications that are of key importance to the future of nonlinear dynamics *Advanced Numerical Methods for Differential Equations* Harendra Singh,Jagdev Singh,Sunil Dutt Purohit,Devendra Kumar,2021-07-29 Mathematical models are used to convert real life problems using mathematical concepts and language These models are governed by differential equations whose solutions make it easy to understand real life problems and can be applied to engineering and science disciplines This book presents numerical methods for solving various mathematical models This book offers real life applications includes research problems on numerical treatment and shows how to develop the numerical methods for solving problems The book also covers theory and applications in engineering and science Engineers mathematicians scientists and researchers working on real life mathematical problems will find this book useful

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 *Analytical and Numerical Methods for Differential Equations and Applications* Jesus Martin-Vaquero,Feliz Minhós,Juan L. G. Guirao,Bruce Alan Wade,2021-10-29 *Applied Analysis of Ordinary Differential Equations* Sanjeeva Balasuriya,2019-11-14 One might say that ordinary differential equations notably in Isaac Newton s analysis of the motion of celestial bodies had a central role in the development of modern applied mathematics This book is devoted to research articles which build upon this spirit combining analysis with the applications of ordinary differential equations ODEs ODEs arise across a spectrum of applications in physics engineering geophysics biology chemistry economics etc because the rules governing the time variation of relevant fields is often naturally expressed in terms of relationships between rates of change ODEs also emerge in stochastic models for example when considering the evolution of a probability density function and in large networks of interconnected agents The increasing ease of numerically simulating large systems of ODEs has resulted in a plethora of publications in this area nevertheless the difficulty of parametrizing models means that the computational results by themselves are sometimes questionable Therefore analysis cannot be ignored This book comprises articles that possess both interesting applications and the mathematical analysis driven by such applications

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