



Journal of Fractional Calculus and Applications

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Journal Of Fractional Calculus And Applications

Ivo Petráš



Journal Of Fractional Calculus And Applications:

Theory And Applications of Fractional Differential Equations A. Anatolii Aleksandrovich Kilbas, Hari Mohan Srivastava, Juan J. Trujillo, 2006 This monograph provides the most recent and up to date developments on fractional differential and fractional integro differential equations involving many different potentially useful operators of fractional calculus The subject of fractional calculus and its applications that is calculus of integrals and derivatives of any arbitrary real or complex order has gained considerable popularity and importance during the past three decades or so due mainly to its demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering Some of the areas of present day applications of fractional models include Fluid Flow Solute Transport or Dynamical Processes in Self Similar and Porous Structures Diffusive Transport akin to Diffusion Material Viscoelastic Theory Electromagnetic Theory Dynamics of Earthquakes Control Theory of Dynamical Systems Optics and Signal Processing Bio Sciences Economics Geology Astrophysics Probability and Statistics Chemical Physics and so on In the above mentioned areas there are phenomena with strange kinetics which have a microscopic complex behaviour and their macroscopic dynamics can not be characterized by classical derivative models The fractional modelling is an emergent tool which use fractional differential equations including derivatives of fractional order that is we can speak about a derivative of order 1/3 or square root of 2 and so on Some of such fractional models can have solutions which are non differentiable but continuous functions such as Weierstrass type functions Such kinds of properties are obviously impossible for the ordinary models What are the useful properties of these fractional operators which help in the modelling of so many anomalous processes From the point of view of the authors and from known experimental results most of the processes associated with complex systems have non local dynamics involving long memory in time and the fractional integral and fractional derivative operators do have some of those characteristics This book is written primarily for the graduate students and researchers in many different disciplines in the mathematical physical engineering and so many others sciences who are interested not only in learning about the various mathematical tools and techniques used in the theory and widespread applications of fractional differential equations but also in further investigations which emerge naturally from or which are motivated substantially by the physical situations modelled mathematically in the book This monograph consists of a total of eight chapters and a very extensive bibliography The main objective of it is to complement the contents of the other books dedicated to the study and the applications of fractional differential equations The aim of the book is to present in a systematic manner results including the existence and uniqueness of solutions for the Cauchy type problems involving nonlinear ordinary fractional differential equations explicit solutions of linear differential equations and of the corresponding initial value problems through different methods closed form solutions of ordinary and partial differential equations and a theory of the so called sequential linear fractional differential equations including a generalization of the classical Frobenius method and also to include an interesting set of

applications of the developed theory Key features It is mainly application oriented It contains a complete theory of Fractional Differential Equations It can be used as a postgraduate level textbook in many different disciplines within science and engineering It contains an up to date bibliography It provides problems and directions for further investigations Fractional Modelling is an emergent tool with demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering It contains many examples and so on

General Fractional Derivatives Xiao-Jun

Yang,2019-05-10 General Fractional Derivatives Theory Methods and Applications provides knowledge of the special functions with respect to another function and the integro differential operators where the integrals are of the convolution type and exist the singular weakly singular and nonsingular kernels which exhibit the fractional derivatives fractional integrals general fractional derivatives and general fractional integrals of the constant and variable order without and with respect to another function due to the appearance of the power law and complex herbivores to figure out the modern developments in theoretical and applied science Features Give some new results for fractional calculus of constant and variable orders Discuss some new definitions for fractional calculus with respect to another function Provide definitions for general fractional calculus of constant and variable orders Report new results of general fractional calculus with respect to another function Propose news special functions with respect to another function and their applications Present new models for the anomalous relaxation and rheological behaviors This book serves as a reference book and textbook for scientists and engineers in the fields of mathematics physics chemistry and engineering senior undergraduate and graduate students Dr Xiao Jun Yang is a full professor of Applied Mathematics and Mechanics at China University of Mining and Technology China He is currently an editor of several scientific journals such as Fractals Applied Numerical Mathematics Mathematical Modelling and Analysis International Journal of Numerical Methods for Heat Fluid Flow and Thermal Science

Solved Exercises in Fractional Calculus Edmundo Capelas de Oliveira,Jayme Vaz,2025-04-28 This textbook provides a comprehensive exploration of special functions and fractional calculus offering a structured approach through solved and proposed exercises Covering key mathematical concepts such as Mittag Leffler functions Kilbas Saigo functions and the Erd lyi Kober fractional integral it balances theoretical insights with practical applications Appendices introduce Barnes G functions and demonstrate the use of Mathematica for fractional calculus expanding the book s accessibility With an updated index and extensive references this edition serves as a valuable resource for researchers graduate students and professionals in applied mathematics and related fields *Journal of Fractional Calculus* ,2004 *The Fractional Calculus Theory and Applications of Differentiation and Integration to Arbitrary Order* ,1974-09-05 In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems A number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non Lagrange interpolation methods of system representation subject to constraints associated with concepts of causality

memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation and methods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory and its particular branches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering

Frontiers in Fractional Calculus Sachin Bhalekar, 2018-03-21 This book brings together eleven topics on different aspects of fractional calculus in a single volume It provides readers the basic knowledge of fractional calculus and introduces advanced topics and applications The information in the book is presented in four parts 1 Fractional Diffusion Equations i solutions of fractional diffusion equations using wavelet methods ii the maximum principle for time fractional diffusion equations iii nonlinear sub diffusion equations 2 Mathematical Analysis i shifted Jacobi polynomials for solving and identifying coupled fractional delay differential equations ii the monotone iteration principle in the theory of Hadamard fractional delay differential equations iii dynamics of fractional order modified Bhalekar Gejji System iv Grunwald Letnikov derivatives 3 Computational Techniques GPU computing of special mathematical functions used in fractional calculus 4 Reviews i the popular iterative method NIM ii fractional derivative with non singular kernels iii some open problems in fractional order nonlinear system This is a useful reference for researchers and graduate level mathematics students seeking knowledge about of fractional calculus and applied mathematics

Recent Trends in Fractional Calculus and Its Applications Praveen Agarwal, Luis Vázquez Martínez, Ervin K. Lenzi, 2024-07-02 Recent Trends in Fractional Calculus and Its Applications addresses the answer to this very basic question Why is Fractional Calculus important Until recent times Fractional Calculus was considered as a rather esoteric mathematical theory without applications but in the last few decades there has been an explosion of research activities on the application of Fractional Calculus to very diverse scientific fields ranging from the physics of diffusion and advection phenomena to control systems to finance and economics An important part of mathematical modelling of objects and processes is a description of their dynamics The term Fractional Calculus is more than 300 years old It is a generalization of the ordinary differentiation and integration to noninteger arbitrary order The subject is as old as the calculus of differentiation and goes back to times when Leibniz Gauss and Newton invented this kind of calculation Several mathematicians contributed to this subject over the years People like Liouville Riemann and Weyl made major contributions to the theory of Fractional Calculus In recent decades the field of Fractional Calculus has attracted the interest of researchers in several areas including mathematics physics chemistry engineering finance and social sciences Provides the most recent and up to date developments in the Fractional

Calculus and its application areas Presents pre preparation ideas to help researchers scientists clinicians face the new challenges in the application of fractional differential equations Helps researchers and scientists understand the importance of the Fractional Calculus to solve many problems in Biomedical Engineering and applied sciences **Fractional Calculus and its Applications in Physics** Dumitru Baleanu,Devendra Kumar,2019-11-15

Recent Research in Polynomials Faruk Özger,2023-07-12 Polynomials are incredibly useful mathematical tools that have a wide array of applications This book provides a comprehensive overview of polynomials and recent developments in the field It includes ten chapters that address such topics as polynomials based cyclic coding Hermite polynomials Routh polynomials fitting parametric polynomials with control point coefficients the thermoelastic wave model and much more

Generalized Fractional Calculus and Applications Virginia S Kiryakova,1993-12-27 In this volume various applications are discussed in particular to the hyper Bessel differential operators and equations Dzrbashjan Gelfond Leontiev operators and Borel type transforms convolutions new representations of hypergeometric functions solutions to classes of differential and integral equations transmutation method and generalized integral transforms Some open problems are also posed This book is intended for graduate and post graduate students lecturers researchers and others working in applied mathematical analysis mathematical physics and related disciplines

Integral Methods in Science and Engineering Christian Constanda,Bardo E.J. Bodmann,Haroldo F. de Campos Velho,2013-08-13 Advances in science and technology are driven by the development of rigorous mathematical foundations for the study of both theoretical and experimental models With certain methodological variations this type of study always comes down to the application of analytic or computational integration procedures making such tools indispensable With a wealth of cutting edge research in the field Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques provides a detailed portrait of both the construction of theoretical integral techniques and their application to specific problems in science and engineering The chapters in this volume are based on talks given by well known researchers at the Twelfth International Conference on Integral Methods in Science and Engineering July 23 27 2012 in Porto Alegre Brazil They address a broad range of topics from problems of existence and uniqueness for singular integral equations on domain boundaries to numerical integration via finite and boundary elements conservation laws hybrid methods and other quadrature related approaches The contributing authors bring their expertise to bear on a number of topical problems that have to date resisted solution thereby offering help and guidance to fellow professionals worldwide Integral Methods in Science and Engineering Progress in Numerical and Analytic Techniques will be a valuable resource for researchers in applied mathematics physics and mechanical and electrical engineering for graduate students in these disciplines and for various other professionals who use integration as an essential tool in their work

Discrete Fractional Calculus: Applications In Control And Image Processing Piotr Ostalczyk,2015-11-26 The main subject of the monograph is the fractional calculus in the discrete version The volume is divided into three main parts Part one contains a theoretical

introduction to the classical and fractional order discrete calculus where the fundamental role is played by the backward difference and sum In the second part selected applications of the discrete fractional calculus in the discrete system control theory are presented In the discrete system identification analysis and synthesis one can consider integer or fractional models based on the fractional order difference equations The third part of the book is devoted to digital image processing

Applications in Physics, Part A Vasily E. Tarasov, 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 fourth volume collects authoritative chapters covering several applications of fractional calculus in physics including classical and continuum mechanics

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

Fractional Modeling of Fluid Flow and Transport Phenomena Mohamed F. El-Amin, 2025-01-31 Fractional Modeling of Fluid Flow and Transport Phenomena focuses on mathematical and numerical aspects of fractional order modeling in fluid flow and transport phenomena The book covers fundamental concepts advancements and practical applications including modeling developments numerical solutions and convergence analysis for both time and space fractional order models Various types of flows are explored such as single and multi phase flows in porous media involving different fluid types like Newtonian non Newtonian nanofluids and ferrofluids This book serves as a comprehensive reference on fractional order modeling of fluid flow and transport phenomena offering a single resource that is currently unavailable Fractional order modeling has gained traction in engineering and science particularly in fluid dynamics and transport phenomena However its mathematical and numerical advancements have progressed relatively slowly compared to other aspects Therefore this book emphasizes the fractional order modeling of fluid flow and transport phenomena to bridge this gap Each chapter in the book delves into a specific topic

closely related to the others ensuring a cohesive and self contained structure Covers advancements in fractional order fluid flow problems Serves as a comprehensive reference on fractional order modeling of fluid flow and transport phenomena Demonstrates the topic with different aspects including modeling mathematical computational and physical commentary

Computational Science and its Applications A. H. Siddiqi,R. C. Singh,G. D. Veerappa Gowda,2020-10-21

Computational science is a rapidly growing multidisciplinary field concerned with the design implementation and use of mathematical models to analyze and solve real world problems It is an area of science that spans many disciplines and which involves the development of models and allows the use of computers to perform simulations or numerical analysis to understand problems that are computational and theoretical Computational Science and its Applications provides an opportunity for readers to develop abilities to pose and solve problems that combine insights from one or more disciplines from the natural sciences with mathematical tools and computational skills This requires a unique combination of applied and theoretical knowledge and skills The topics covered in this edited book are applications of wavelet and fractals modeling by partial differential equations on flat structure as well as on graphs and networks computational linguistics prediction of natural calamities and diseases like epilepsy seizure heart attack stroke biometrics modeling through inverse problems interdisciplinary topics of physics mathematics and medical science and modeling of terrorist attacks and human behavior The focus of this book is not to educate computer specialists but to provide readers with a solid understanding of basic science as well as an integrated knowledge on how to use essential methods from computational science Features Modeling of complex systems Cognitive computing systems for real world problems Presentation of inverse problems in medical science and their numerical solutions Challenging research problems in many areas of computational science This book could be used as a reference book for researchers working in theoretical research as well as those who are doing modeling and simulation in such disciplines as physics biology geoscience and mathematics and those who have a background in computational science

Computational Models of Brain and Behavior Ahmed A. Moustafa,2017-09-11 A comprehensive Introduction to the world of brain and behavior computational models This book provides a broad collection of articles covering different aspects of computational modeling efforts in psychology and neuroscience Specifically it discusses models that span different brain regions hippocampus amygdala basal ganglia visual cortex different species humans rats fruit flies and different modeling methods neural network Bayesian reinforcement learning data fitting and Hodgkin Huxley models among others Computational Models of Brain and Behavior is divided into four sections a Models of brain disorders b Neural models of behavioral processes c Models of neural processes brain regions and neurotransmitters and d Neural modeling approaches It provides in depth coverage of models of psychiatric disorders including depression posttraumatic stress disorder PTSD schizophrenia and dyslexia models of neurological disorders including Alzheimer s disease Parkinson s disease and epilepsy early sensory and perceptual processes models of olfaction higher systems level

models and low level models Pavlovian and instrumental conditioning linking information theory to neurobiology and more Covers computational approximations to intellectual disability in down syndrome Discusses computational models of pharmacological and immunological treatment in Alzheimer s disease Examines neural circuit models of serotonergic system from microcircuits to cognition Educates on information theory memory prediction and timing in associative learning Computational Models of Brain and Behavior is written for advanced undergraduate Master s and PhD level students as well as researchers involved in computational neuroscience modeling research

Fractional Order Control and Synchronization of Chaotic Systems Ahmad Taher Azar,Sundarapandian Vaidyanathan,Adel Ouannas,2017-02-27 The book reports on the latest advances in and applications of fractional order control and synchronization of chaotic systems explaining the concepts involved in a clear matter of fact style It consists of 30 original contributions written by eminent scientists and active researchers in the field that address theories methods and applications in a number of research areas related to fractional order control and synchronization of chaotic systems such as fractional chaotic systems hyperchaotic systems complex systems fractional order discrete chaotic systems chaos control chaos synchronization jerk circuits fractional chaotic systems with hidden attractors neural network fuzzy logic controllers behavioral modeling robust and adaptive control sliding mode control different types of synchronization circuit realization of chaotic systems etc In addition to providing readers extensive information on chaos fundamentals fractional calculus fractional differential equations fractional control and stability the book also discusses key applications of fractional order chaotic systems as well as multidisciplinary solutions developed via control modeling As such it offers the perfect reference guide for graduate students researchers and practitioners in the areas of fractional order control systems and fractional order chaotic systems

Applications in Control Ivo Petráš,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 sixth volume collects authoritative chapters covering several applications of fractional calculus in control theory including fractional controllers design methods and toolboxes and a large number of engineering applications of control

Fractional Calculus and Fractional Processes with Applications to Financial Economics Hasan Fallahgoul,Sergio Focardi,Frank Fabozzi,2016-10-06 Fractional Calculus and Fractional Processes with Applications to Financial Economics presents the theory and application of fractional calculus and fractional processes to financial data Fractional calculus dates back to 1695 when Gottfried Wilhelm Leibniz first suggested the possibility of fractional derivatives Research on fractional calculus started in full earnest in the second half of the twentieth century The fractional paradigm applies not only to calculus but also to stochastic processes used in many applications in financial economics such as modelling volatility interest rates and modelling high frequency data The key features of fractional processes that make them interesting are long range memory path dependence non Markovian properties self similarity fractal paths and anomalous diffusion behaviour In this book the authors discuss how fractional calculus and

fractional processes are used in financial modelling and finance economic theory It provides a practical guide that can be useful for students researchers and quantitative asset and risk managers interested in applying fractional calculus and fractional processes to asset pricing financial time series analysis stochastic volatility modelling and portfolio optimization Provides the necessary background for the book s content as applied to financial economics Analyzes the application of fractional calculus and fractional processes from deterministic and stochastic perspectives

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