



Journal of Fractional Calculus and Applications

Print ISSN: 2006-6543
Online ISSN: 2002-6898
<http://www.jfca.net>

Journal Of Fractional Calculus And Applications

**J. Sabatier, O. P. Agrawal, J. A. Tenreiro
Machado**



Journal Of Fractional Calculus And Applications:

Theory and Applications of Fractional Differential Equations A.A. Kilbas,H. M. Srivastava,J.J. Trujillo,2006-02-16 This work aims to present in a systematic manner results including the existence and uniqueness of solutions for the Cauchy Type and Cauchy problems involving nonlinear ordinary fractional differential equations 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 **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 **Journal of Fractional Calculus** ,2004 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 **Functional Fractional Calculus** Shantanu Das,2011-06-01 When a new extraordinary and outstanding theory is stated it has to face criticism and skepticism because it is beyond the usual concept The fractional calculus though not new was not discussed or developed for a long time particularly for lack of its application to real life problems It is extraordinary because it does not deal with ordinary differential calculus It is outstanding because it can now be applied to situations where existing theories fail to give satisfactory results In this book not only mathematical abstractions are discussed in a lucid manner with physical mathematical and geometrical explanations but also several practical applications are given particularly for system identification description and then efficient controls The normal physical laws like transport theory electrodynamics equation of motions elasticity viscosity and several others of are based on ordinary calculus In this book these physical laws are generalized in fractional calculus contexts taking heterogeneity effect in transport background the space having traps or islands irregular distribution of charges non ideal spring with mass connected to a pointless mass ball material behaving with viscous as well as elastic properties system relaxation with and without memory physics of random delay in computer network and several others mapping the reality of nature closely The concept of fractional and complex order differentiation and integration are elaborated mathematically physically and geometrically with examples The practical utility of local fractional differentiation for enhancing the character of singularity

at phase transition or characterizing the irregularity measure of response function is deliberated Practical results of viscoelastic experiments fractional order controls experiments design of fractional controller and practical circuit synthesis for fractional order elements are elaborated in this book The book also maps theory of classical integer order differential equations to fractional calculus contexts and deals in details with conflicting and demanding initialization issues required in classical techniques The book presents a modern approach to solve the solvable system of fractional and other differential equations linear non linear without perturbation or transformations but by applying physical principle of action and opposite reaction giving approximately exact series solutions Historically Sir Isaac Newton and Gottfried Wihelm Leibniz independently discovered calculus in the middle of the 17th century In recognition to this remarkable discovery J von Neumann remarked the calculus was the first achievement of modern mathematics and it is difficult to overestimate its importance I think it defines more equivocally than anything else the inception of modern mathematical analysis which is logical development still constitute the greatest technical advance in exact thinking This XXI century has thus started to think exactly for advancement in science technology by growing application of fractional calculus and this century has started speaking the language which nature understands the best

Advanced Applications of Fractional Differential Operators to Science and Technology Matouk, Ahmed Ezzat, 2020-04-24 Fractional order calculus dates to the 19th century but has been resurrected as a prevalent research subject due to its provision of more adequate and realistic descriptions of physical aspects within the science and engineering fields What was once a classical form of mathematics is currently being reintroduced as a new modeling technique that engineers and scientists are finding modern uses for There is a need for research on all facets of these fractional order systems and studies of its potential applications Advanced Applications of Fractional Differential Operators to Science and Technology provides emerging research exploring the theoretical and practical aspects of novel fractional modeling and related dynamical behaviors as well as its applications within the fields of physical sciences and engineering Featuring coverage on a broad range of topics such as chaotic dynamics ecological models and bifurcation control this book is ideally designed for engineering professionals mathematicians physicists analysts researchers educators and students seeking current research on fractional calculus and other applied mathematical modeling techniques

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 Journal of Fractional Calculus ,2006 *Fractional Calculus with Applications in Mechanics* Teodor M. Atanackovic, Stevan Pilipovic, Bogoljub Stankovic, Dusan Zorica, 2014-02-19 The books *Fractional Calculus with Applications in Mechanics Vibrations and Diffusion Processes* and *Fractional Calculus with Applications in Mechanics Wave Propagation Impact and Variational Principles* contain various applications of fractional calculus to the fields of classical mechanics Namely the books study problems in fields such as viscoelasticity of fractional order lateral vibrations of a rod of fractional order type lateral vibrations of a rod positioned on fractional order viscoelastic foundations diffusion wave phenomena heat conduction wave propagation forced oscillations of a body attached to a rod impact and variational principles of a Hamiltonian type The books will be useful for graduate students in mechanics and applied mathematics as well as for researchers in these fields Part 1 of this book presents an introduction to fractional calculus Chapter 1 briefly gives definitions and notions that are needed later in the book and Chapter 2 presents definitions and some of the properties of fractional integrals and derivatives Part 2 is the central part of the book Chapter 3 presents the analysis of waves in fractional viscoelastic materials in infinite and finite spatial domains In Chapter 4 the problem of oscillations of a translatory moving rigid body attached to a heavy or light viscoelastic rod of fractional order type is studied in detail In Chapter 5 the authors analyze a specific engineering problem of the impact of a viscoelastic rod against a rigid wall Finally in Chapter 6 some results for the optimization of a functional containing fractional derivatives of constant and variable order are presented 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 **Fractional Calculus with Applications for Nuclear Reactor Dynamics** Santanu Saha Ray, 2015-07-29 Introduces Novel Applications for Solving Neutron Transport Equations While deemed nonessential in the past fractional calculus is now gaining momentum in the science and engineering community Various disciplines have discovered that realistic models of physical phenomenon can be achieved with fractional calculus and are using them in numerous way 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.

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.

Advances in Fractional Calculus J. Sabatier, O. P. Agrawal, J. A. Tenreiro Machado, 2007-07-28 In the last two decades, fractional or non-integer differentiation has played a very important role in various fields such as mechanics, electricity, chemistry, biology, economics, control theory, and signal and image processing. For example, in the last three fields, some important considerations such as modelling, curve fitting, filtering, pattern recognition, edge detection, identification, stability, controllability, observability, and robustness are now linked to long range dependence phenomena. Similar progress has been made in other fields listed here. The scope of the book is thus to present the state of the art in the study of fractional systems and the application of fractional differentiation. As this volume covers recent applications of fractional calculus, it will be of interest to engineers, scientists, and applied mathematicians.

Fractional Calculus: Models And Numerical Methods (Second Edition) Juan J. Trujillo, Enrico Scalas, Kai Diethelm, Dumitru Baleanu, 2016-09-15 This book will give readers the possibility of finding very important mathematical

tools for working with fractional models and solving fractional differential equations such as a generalization of Stirling numbers in the framework of fractional calculus and a set of efficient numerical methods Moreover we will introduce some applied topics in particular fractional variational methods which are used in physics engineering or economics We will also discuss the relationship between semi Markov continuous time random walks and the space time fractional diffusion equation which generalizes the usual theory relating random walks to the diffusion equation These methods can be applied in finance to model tick by tick log price fluctuations in insurance theory to study ruin as well as in macroeconomics as prototypical growth models All these topics are complementary to what is dealt with in existing books on fractional calculus and its applications This book will keep in mind the trade off between full mathematical rigor and the needs of readers coming from different applied areas of science and engineering In particular the numerical methods listed in the book are presented in a readily accessible way that immediately allows the readers to implement them on a computer in a programming language of their choice The second edition of the book has been expanded and now includes a discussion of additional newly developed numerical methods for fractional calculus and a chapter on the application of fractional calculus for modeling processes in the life sciences

Fractional Dynamics Vasily E. Tarasov, 2011-01-04 Fractional Dynamics Applications of Fractional Calculus to Dynamics of Particles Fields and Media presents applications of fractional calculus integral and differential equations of non integer orders in describing systems with long time memory non local spatial and fractal properties Mathematical models of fractal media and distributions generalized dynamical systems and discrete maps non local statistical mechanics and kinetics dynamics of open quantum systems the hydrodynamics and electrodynamics of complex media with non local properties and memory are considered This book is intended to meet the needs of scientists and graduate students in physics mechanics and applied mathematics who are interested in electrodynamics statistical and condensed matter physics quantum dynamics complex media theories and kinetics discrete maps and lattice models and nonlinear dynamics and chaos Dr Vasily E Tarasov is a Senior Research Associate at Nuclear Physics Institute of Moscow State University and an Associate Professor at Applied Mathematics and Physics Department of Moscow Aviation Institute

Fractional Order Systems and Applications in Engineering Dumitru Baleanu, Valentina Emilia Balas, Praveen Agarwal, 2022-11-17 Fractional Order Systems and Applications in Engineering presents the use of fractional calculus calculus of non integer order in the description and modelling of systems and in a range of control design and practical applications The book covers the fundamentals of fractional calculus together with some analytical and numerical techniques and provides MATLAB codes for the simulation of fractional order control FOC systems The use of fractional calculus can improve and generalize well established control methods and strategies Many different FOC schemes are presented for control and dynamic systems problems These extend to the challenging control engineering design problems of robust and nonlinear control Practical material relating to a wide variety of applications including among others mechatronics civil

engineering irrigation and water management and biological systems is also provided All the control schemes and applications are presented with either system simulation results or real experimental results or both Fractional Order Systems and Applications in Engineering introduces readers to the essentials of FOC and imbues them with a basic understanding of FOC concepts and methods With this knowledge readers can extend their use of FOC in other industrial system applications thereby expanding their range of disciplines by exploiting this versatile new set of control techniques Provides the most recent and up to date developments on the Fractional order Systems and their analyzing process Integrates recent advancements of modeling of real phenomena on Fractional order Systems via different different mathematical equations with demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering Provides readers with illustrative examples of how to use the presented theories of Fractional order Systems in specific cases with associated MATLAB code

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

Fractional Calculus in Medical and Health Science

Devendra Kumar,Jagdev Singh,2020-07-09 This book covers applications of fractional calculus used for medical and health science It offers a collection of research articles built into chapters on classical and modern dynamical systems formulated by fractional differential equations describing human diseases and how to control them The mathematical results included in the book will be helpful to mathematicians and doctors by enabling them to explain real life problems accurately The book will also offer case studies of real life situations with an emphasis on describing the mathematical results and showing how to apply the results to medical and health science and at the same time highlighting modeling strategies The book will be useful to graduate level students educators and researchers interested in mathematics and medical science

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