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Journal of Fractional Calculus and Applications is a peer-reviewed international electronic journal, which publishes both surveys/reviews and research articles on the fields of fractional-order differential and integral equations and its applications in all fields of Science.

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Journal of Fractional Calculus and Applications

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Description. Fractional calculus (FC) is an emerging field of mathematics in an applications points of view, and it is applicable for almost all branches of applied sciences. It deals with the investigation and application of integrals and derivatives of arbitrary order. The combination of generalized FC and special functions are used to obtain potential results in the field of applied mathematics.

Fractional Calculus and Related Inequalities | Hindawi

This monograph provides a comprehensive overview of the author's work on the fields of fractional calculus and waves in linear viscoelastic media, which includes his pioneering contributions on the applications of special functions of the Mittag-Leffler and Wright types. It is intended to serve as a general introduction to the

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Fractional calculus extends the order of integer order calculus from integer to non-integer. Fractional order models based on fractional calculus can describe nature characteristics and property behavior of real-time systems more accurately. At present, fractional calculus has been widely used in various fields [2, 3, 4, 5, 6, 7]. It can be used to represent dynamic course of the system which cannot be described accurately by integer order system.

Formalization of fractional calculus and fractional order ...

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Fractional Calculus: Theory and Applications

Journal of Fractional Calculus and Applications is a peer-reviewed international electronic journal, which publishes both surveys/reviews and research articles on the fields of fractional-order differential and integral equations and its applications in all fields of Science. A significant emerging area of research activity covers:

Journal of Fractional Calculus and Applications | Publons

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Subject: Mathematics

ISSN 2090-5858 (Online) | Journal of fractional calculus ...

Fernandez, C. Ustaoğlu, "On some analytic properties
of tempered fractional calculus", Journal of
Computational and Applied Mathematics 366 (2020),
112400. DOI: 10.1016/j.cam.2019.112400 Fernandez,
D. Baleanu, H.M. Srivastava, "Corrigendum to "Series
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Fractional Calculus and Applied Analysis - Journal
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Fractional Calculus and Applied Analysis Journal Impact ...

Fractional calculus is a branch of mathematical analysis that studies the several different possibilities of defining real number powers or complex number powers of the differentiation operator $D = ()$, and of the integration operator $J = \int ()$, and developing a calculus for such operators generalizing the classical one.. In this context, the term powers refers to iterative application of a ...

Fractional calculus - Wikipedia

Abstract This paper deals with recent applications of fractional calculus to dynamical systems in control theory, electrical circuits with fractance, generalized voltage divider, viscoelasticity, fractional-order multipoles in electromagnetism, electrochemistry, tracer in fluid flows, and model of neurons in biology.

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

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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

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

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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.

Numerical Methods for Fractional Calculus presents numerical methods for fractional integrals and fractional derivatives, finite difference methods for fractional ordinary differential equations (FODEs) and fractional partial differential equations (FPDEs), and finite element methods for FPDEs. The book introduces the basic definitions and propertie

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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.

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.

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