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Journal of Fractional Calculus and Applications
applications of the theory of fractional calculus. Mathematics Subject Classi?cation: 26A33 Keywords: fractional derivative, fractional Integral, di?erintegrals 1 Introduction Fractional calculus is a ?eld of mathematics study that qrows out of the tra-ditional de?nitions of calculus integral and derivative operators in much the

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Fractional Calculus And Its Applications
Fractional calculus was formulated in 1695, shortly after the development of classical calculus. The earliest systematic studies were attributed to Liouville, Riemann, Leibniz, etc. [1,2].For a long time, fractional calculus has been regarded as a pure mathematical realm without real applications.

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Special Issue "Recent Advances in Fractional Calculus and ...
In this article, N- fractional calculus (NFC) of power and logarithmic functions are shown in Chapter 2, the applications of NFC (NFC- method) to Weber's equation (nonhomogeneous and homogeneous) and Gauss' hypergeometric equations are shown in Chapter 3 and to some double infinite, finite and mixed sums are reported in Chapter 4, respectively.

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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 $J = ? ()$, and developing a calculus for such operators generalizing the classical one.. In this context, the term powers refers to iterative application of a ...

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Fractional Calculus (FC) goes back to the beginning of the theory of differential calculus. Nevertheless, the application of FC just emerged in the last two decades, due to the progress in the area of chaos that revealed subtle relationships with the FC concepts. In the field of dynamical systems theory some work has been carried out but the proposed models and algorithms are still in a ...

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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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Applications of Fractional Calculus
It has been found that fractional calculus can be useful and even powerful, and an outline of the simple history about fractional calculus, especially with applications, can be found in Machado et al. . Now, fractional calculus and its applications is undergoing rapid developments with more and more convincing applications in the real world [4,5].

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This special issue on "Fractional Calculus and its Applications in Applied Mathematics and Other Sciences" is devoted to study the recent works in the above fields of fractional calculus done by the leading researchers. The papers for this special issue were selected after a careful and studios peer-review process.

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Fractional calculus - Wikipedia
Summary This chapter contains sections titled: Introduction Fractional Calculus Fundamentals Fractional?Order Systems and Controllers Stability of Fractional?Order Systems Applications of Fractiona... Skip to Article Content; Skip to Article Information ... Fractional Calculus and its Applications.

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