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~~Fractional Differential Equation | Fractional calculus The Fractional Calculus Theory And~~

Fractional calculus (FC) is a misnomer, because irrationals can also be integral indices in this field. This book covers all the major pieces, as well as good history up to 1975. Since then, most of the advances have come in numerical methods and extended applications in fractional conservation of mass, porous media flows, bioacoustics, polymer dampening, etc.

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The Fractional Calculus Theory and Applications of Differentiation and Integration to Arbitrary Order, Volume 111 - 1st Edition COVID-19 Update: We are currently shipping orders daily. However, due to transit disruptions in some geographies, deliveries may be delayed.

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Fractional calculus is allowing integrals and derivatives of any positive order (the term fractional is kept only for historical reasons). It can be considered a branch of mathematical physics that deals with integro-differential equations, where integrals are of convolution type and exhibit mainly singular

~~Fractional Calculus: Theory and Applications~~

The Fractional Calculus: Theory and Applications of Differentiation and Integration to Arbitrary Order. Keith B. Oldham, Jerome Spanier. The product of a collaboration between a mathematician and a chemist, this text is geared toward advanced undergraduates and graduate students. Not only does it explain the theory underlying the properties of the generalized operator, but it also illustrates the wide variety of fields to which these ideas may be applied.

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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 ...

~~Fractional calculus - Wikipedia~~

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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.

~~Journal of Fractional Calculus and Applications~~

Fractional-order control (FOC) is a field of control theory that uses the fractional-order integrator as part of the control system design toolkit. The use of fractional calculus (FC) can improve and generalize well-established control methods and strategies. The fundamental advantage of FOC is that the fractional-order integrator weights history using a function that decays with a power-law tail.

~~Fractional order control - Wikipedia~~

Fractional Calculus involving (p, q) -Mathieu Type Series 33 [41] A. Atangana, On the new fractional derivative and application to nonlinear Fisher's reaction diffusion equation, Applied Mathematics and Computation 273 (2016) 948-956. [42] A. Atangana, D. Baleanu, New fractional derivatives with nonlocal and non-singular kernel, theory and application to heat transfer model, Thermal Science ...

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Fractional Calculus: Theory and Applications. Francesco Mainardi (Ed.) Pages: 208 Published: September 2018 (This book is a printed edition of the Special Issue Fractional Calculus: Theory and Applications that was published in Mathematics) Download PDF. Add this book to My Library.

~~Fractional Calculus: Theory and Applications | MDPI Books~~

The fractional calculus is a name for the theory of integrals and derivatives of arbitrary order, which unify and generalize the notions of integer-order differentiation and n -fold integration. Let us consider the infinite sequence of n -fold integrals and n -fold derivatives:

~~Fractional Calculus - an overview | ScienceDirect Topics~~

The fractional calculus theory and applications of differentiation and integration to arbitrary order This edition was published in 2006 by Dover Publications in Mineola, N.Y.

~~The fractional calculus (2006 edition) | Open Library~~

The theory and applications of fractional calculus expanded greatly over the 19th and 20th centuries, and numerous contributors have given definitions for fractional derivatives and integrals. Nature of the fractional derivative Not to be confused with Fractal derivative.

~~Fractional calculus - WikiMili, The Best Wikipedia Reader~~

Fractional calculus is allowing integrals and derivatives of any positive order (the term fractional is kept only for historical reasons).

~~Fractional Calculus, Fractional Differential Equations and ...~~

Fractional calculus (FC) is a misnomer, because irrationals can also be integral indices in this field. This book covers all the major pieces, as well as good history up to 1975. Since then, most of the advances have come in numerical methods and extended applications in fractional conservation of mass, porous media flows, bioacoustics, polymer dampening, etc.

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@inproceedings{Samko1993FractionalIA, title={Fractional Integrals and Derivatives: Theory and Applications}, author={S. Samko and A. A. Kilbas and O. I. Marichev}, year={1993} } Fractional integrals and derivatives on an interval fractional integrals and derivatives on the real axis and half-axis ...

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This monograph is devoted to the systematic and comprehensive exposition of classical and modern results in the theory of fractional integrals and their applications. Various aspects of this theory, such as functions of one and several variables, periodical and non-periodical cases, and the technique of hypersingular integrals are studied.

~~Fractional integrals and derivatives : theory and ...~~

The fractional integral and derivative The most natural place to start our search for fractional-order differential and integral operators is with a formula called Cauchy's formula for repeated...