

FRACTIONAL DYNAMICS

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[Fractional Dynamics - Applications of Fractional Calculus ...](#)

"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. [Fractional Dynamical Systems | SpringerLink](#)

The suggested class of fractional gradient and Hamiltonian systems is wider (Tarasov, 2005a,b) than the usual class of gradient and Hamiltonian dynamical systems. The systems of gradient and Hamiltonian type can be considered as a special case of fractional gradient and Hamiltonian systems.

[Fractional-order system - Wikipedia](#)

In the fields of dynamical systems and control theory, a fractional-order system is a dynamical system that can be modeled by a fractional differential equation containing derivatives of non-integer order. Such systems are said to have fractional dynamics.

[Fractional Dynamics: Recent Advances | World Scientific](#)

This volume provides the latest developments in the field of fractional dynamics, which covers fractional (anomalous) transport phenomena, fractional statistical mechanics, fractional quantum mechanics and fractional quantum field theory. The contributors are selected based on their active and important contributions to their respective topics. This volume is the first of its kind that covers such a comprehensive range of topics in fractional dynamics. It will point out to advanced

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(PDF) Fractional Dynamics: A Statistical Perspective Fractional calculus is a mathematical paradigm that has been increasingly adopted to describe the dynamics of systems with hereditary characteristics, or that reflect an average of a large

[Parameter identification in fractional differential ...](#)

This article investigates the fractional derivative order identification, the coefficient identification, and the source identification in the fractional diffusion problems. If $1 < \alpha < 2$, we prove the unique determination of the fractional derivative order and the diffusion coefficient $p(x)$ by $0 < t$

[Radiofrequency Radiation](#)

$u(0, s) ds, 0 < t < T$ for one-dimensional fractional diffusion-wave equations.

[A physical interpretation for the fractional derivative in ...](#)

To the authors' knowledge, previous derivations of the fractional diffusion equation are based on stochastic principles [1], with the result that physical interpretation of the resulting fractional derivatives has been elusive [2].

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[Fractional calculus - Wikipedia](#)

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 $D D f = d/dx f$ and of the integration operator $J J f = \int_0^x f ds$, and developing a calculus for such operators generalizing the classical one. In this context, the term powers refers to iterative application of a

[Fractional Dynamics - ResearchGate](#)

A rigid body is an idealization of a solid body of finite size in which deformation is neglected. Rigid bodies are characterized as being non-deformable, as opposed to deformable bodies.

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The book is devoted to recent developments in the theory of fractional calculus and its applications. Particular attention is paid to the applicability of this currently popular research field in various branches of pure and applied mathematics.

[Spin-glass dynamics: Relation between theory and ...](#)

Physica A 185 (1992) 278-294 North-Holland Spin-glass dynamics Relation between theory and experiment: a beginning J. Hammann a, M. Lederman b, M. Ocio a, R. Orbach b and

[An approximate solution for a fractional diffusion-wave ...](#)

Fractional calculus This section is devoted to a description of the operational properties of the purpose of acquainting with sufficient fractional calculus theory, and the finite Fourier transform, to enable us to follow the solutions of the problem given in this paper. Many definitions and studies of fractional calculus have been proposed in the last two centuries. These definitions include

[Entropy | Special Issue : Complex and Fractional](#)

Dynamics

The Vallis model for El Niño is an important model describing a very interesting physical problem. The aim of this paper is to investigate and compare the models using both integer and non-integer order derivatives.