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## Physical Science

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~~Fractional Calculus and Fractal~~

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~~The Fractional Derivative, what is it? |~~

~~Introduction to Fractional Calculus~~

fractional calculus definition, history  
importance and application

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Soft matters and fractional calculus the

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Differential Equations and  
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Fractional Differential and Integral  
Calculus—part 1 Fractional Calculus:  
A New Language for Explaining  
Complex Crowd Behavior Fractional  
Parts of a Set

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Trigonometry Song | Maths Song |  
Mathematics Song | Mathematicspi-th  
derivative of  $x^{\pi}$  What Is The  
Factorial Of  $1/2$ ? SURPRISING  $(1/2)! =$   
(     )/2 Half Derivative Definition  
Fractional order derivative of a  
function /u0026 fractional numbers'  
factorial. Fractions with Exponents |  
Powers of Fractions (FC07) The  
Riemann-Liouville Fractional Integral  
Imaginary derivative of  $x$  Half  
derivative of  $1$  Fractional Calculus  
Step by Step Some tools to study

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random fractional differential  
equations and applications Fractional  
Calculus Workshop 09-10 June 2020  
Applications of analysis to fractional  
differential equations Generalized  
Fractional Calculus and the  
Application to Oscillator Equations--  
Yufeng Xu

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Fractional calculus PART 2 - solution  
to the one-half order differential  
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Special Functions and Fractional  
Calculus Getting the most out of  
fractional models Fractional Dynamics  
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fractional calculus, integral and  
differential equations of non-integer  
orders in describing systems with long-

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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 ...

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Physical Science) 1st Edition. by  
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time memory, non-local spatial and

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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 ...

Fractional Dynamics | SpringerLink

The present state-of-the-art article is devoted to the analysis of new trends and recent results carried out during the last 10 years in the field of fractional calculus application to dynamic problems of solid mechanics. This review involves the papers dealing with study of dynamic behavior of linear and nonlinear 1DOF systems, systems with two and more DOFs, as well as linear and nonlinear ...



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Application of Fractional Calculus for  
Dynamic Problems of ...

7.4. Application of fractional derivative model to sediment bed-load transport. In recent years, it has been found that anomalous diffusion exists in the process of bed-load transport. Bed sediment transport in rivers is scale dependent, with anomalous and Fickian scaling dominate at different scales.

A new collection of real world applications of fractional ...

The most straightforward application of fractional-derivative models in solid Earth dynamics might be mass transport. Mass movement, also called mass wasting or landslide, refers to the downslope movement of mud, regolith (i.e., soil, sediment, and debris), rock, or snow/ice under

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gravity. Mass movement plays a critical role in the rock cycle, affecting landscape evolution and producing stream valleys when mixed with running water.

A review of applications of fractional calculus in Earth ...

In Section 2, it is presented the application of FC concepts to the tuning of PID controllers and, in Section 3, the application of a fractional-order PD controller in the control of the leg joints of a hexapod robot. Then in Section 4, it is presented the fractional dynamics in the trajectory control of redundant manipulators.

Some Applications of Fractional  
Calculus in Engineering  
fractional dynamics applications of

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Fractional Models and their  
Applications Boundedness and  
Lagrange stability of fractional order  
perturbed system related to  
unperturbed systems with initial time  
difference in Caputo's sense In this  
paper, we have investigated that  
initial time difference boundedness  
criteria and Lagrange stability for

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fractional order differential equation  
in Caputo's sense are unified with  
Lyapunov-like function...

## Fractional Models and their applications

Fractional dynamics basically  
investigates the behavior and time  
evolution of mathematical objects  
through integrations and  
differentiation of fractional (i.e. non-  
integer) orders. The main interest of  
this special issue is to describe and  
analyze new methods and techniques  
for solving nonlinear dynamical  
systems described by fractional  
differential equations.

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Calculus and Their Applications Hari

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University Hospital, China Medical  
University, Taichung 40402, Taiwan

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Accepted: 4 September 2018;

Published ...

## Operators of Fractional Calculus and Their Applications

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.

Derivatives and integrals of fractional

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orders are used to describe objects that can be characterized by power-law nonlocality, power-law long-range dependence or fractal properties.

Fractional-order systems are useful in studying the anomalous

Fractional-order system - Wikipedia  
Fractional Dynamics Applications of Fractional Calculus to Dynamics of Particles, Fields and Media;  
pp.457-466; Vasily Tarasov. In the quantum mechanics, the observables are given by self-adjoint ...

Fractional Dynamics -  
researchgate.net

The fractional order calculus (FOC) is as old as the integer one although up to recently its application was exclusively in mathematics. Many real systems are better described with FOC

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Fractional equations as it is a well-suited tool to analyze problems of fractal dimension, with long-term “memory” and chaotic behavior.

## Physical Science

Fractional Order Calculus: Basic Concepts and Engineering ...

Fractional Dynamics: Applications of Fractional Calculus to Dynamics of Particles, Fields and Media: Tarasov,

Vasily E: Amazon.nl Selecteer uw

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Dumitru's research interests include fractional dynamics and its applications, fractional differential equations, dynamic systems on time scales, Hamilton-Jacobi formalism, Lie symmetries. He has published more than 600 papers indexed in SCI. He is one of the editors of 5 books published by Springer, one published by AIP Conference Proceedings ...

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