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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 ...

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 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

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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

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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 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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Applications Hari Mohan Srivastava 1,2-1 Department of Mathematics and Statistics, University of Victoria, Victoria, BC V8W 3R4, Canada; harimsri@math.uvic.ca 2 Department of Medical Research, China Medical University Hospital, China Medical University, Taichung 40402, Taiwan Received: 4 September 2018; 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 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 differential equations as it is a well-suited tool to analyze problems of fractal dimension, with long-term “memory” and chaotic behavior.

Fractional Order Calculus: Basic Concepts and Engineering ...

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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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