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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 ...

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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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Editorial Operators of Fractional Calculus and Their
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Mathematics and Statistics, University of Victoria, Victoria,

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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

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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-

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range dependence or fractal properties. Fractional-order systems are useful in studying the anomalou

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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

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analyze problems of fractal dimension, with long-term “ memory ” and chaotic behavior.

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Fractional Dynamics: Applications of Fractional Calculus ...
Dumitru's research interests include fractional dynamics and

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