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The present
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article is

devoted to the
analysis of new

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trends and recent results carried out during the last 10 years in the field of fractional calculus to application to dynamic problems of solid mechanics. This review involves the papers

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dealing with
study of dynamic
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Calculus for Dynamic Problems of ...

7.4. Application
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derivative model
to sediment bed-
load transport.

In recent years,
it has been
found that
anomalous
diffusion exists
in the process

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of bed-load
transport. Bed
sediment
transport in
rivers is scale
dependent, with
anomalous and
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dominate at
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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

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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

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landscape
evolution and
producing stream
valleys when
mixed with
running water.

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

In Section 2, it
is presented the

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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

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presented the
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dynamics in the
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control of
redundant
manipulators.

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we have
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Particles Fields

**Fractional
models and their
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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

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to describe and
analyze new
methods and
techniques for
solving
nonlinear
dynamical
systems

described by
fractional
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equations.

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In the fields of

dynamical

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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

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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
anomalous

**Fractional-order
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pp. 457-466;

Vasily Tarasov.

In the quantum
mechanics, the
observables are
given by self-
adjoint ...

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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

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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.

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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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applications of
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equations of non-integer orders in describing systems with long-time memory, non-local spatial and fractal properties.

Mathematical models of fractal media and physical distributions,

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mechanics and
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the
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and
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of complex media with non-local properties and memory are considered. This book is intended to meet the needs of scientists and graduate students in physics, mechanics and applied

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condensed matter
physics, quantum
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discrete maps
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models, and

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nonlinear
dynamics and
chaos. Dr.
Vasily E.

Tarasov is a
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Nuclear Physics
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University and
an Associate
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devoted to

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developments in
the theory of
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applications.

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Particular attention is paid to the applicability of this currently popular research field in various branches of pure and applied mathematics. In particular, the book focuses on the more recent results in

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physics,
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applications, Of
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applied physics
as quantum
mechanics, Of
signal analysis,
and in those
relevant
research fields
where nonlinear
dynamics occurs

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and several
tools of
nonlinear
analysis are
required.
Dynamical
processes and
dynamical
systems of
fractional order
attract
researchers from
many areas of
sciences and

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technologies,
ranging from
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physics to
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science.

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a comprehensive
overview of
recent advances
in the areas of

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analytical,
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experimental
results. This
book provides an
overview of
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discoveries in
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control, delves

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into fractional
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principles and
differential
equations, and
applies advanced
techniques in
fractional
calculus to
solving
complicated
mathematical and
physical problem
s. Finally, this

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book also
discusses the
role that
fractional order
modeling can
play in complex
systems for
engineering and
science.

And Media

This work aims
to present, in a
systematic
manner, results

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including the
existence and
uniqueness of
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the Cauchy Type
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involving
nonlinear
ordinary
fractional
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equations.

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from a design
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Furthermore,
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applications.

This book
introduces the
mathematics that
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explicitly for
fractional-order
systems. It will
prove an
excellent
material for
students and
scholars who
want to quickly
understand the
field of
fractional-order
systems and
contribute to

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its different domains and applications. Fractional-order systems are believed to play an essential role in our day-to-day activities. Therefore, several researchers around the globe

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endeavor to work in the different domains of fractional-order systems. The efforts include developing the mathematics to solve fractional-order calculus/systems and to achieve the feasible designs for

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various

applications of
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systems Offers
practical

knowledge on the
design of

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Exposes users to
possible new
applications for
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systems Fields

And Media

This book
reports on an
outstanding
research devoted

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to modeling and
control of
dynamic systems
using fractional-
order calculus.

It describes the
development of
model-based

control design
methods for
systems

described by
fractional
dynamic models.

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More than 300
years had passed
since Newton and
Leibniz

developed a set
of mathematical
tools we now
know as

calculus. Ever
since then the
idea of non-
integer

derivatives and
integrals,

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universally referred to as fractional calculus, has been of interest to many researchers. However, due to various issues, the usage of fractional-order models in real-life applications was

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limited.

Advances in modern computer science made it possible to apply efficient numerical methods to the computation of fractional derivatives and integrals. This book describes novel methods

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developed by the author for fractional modeling and control, together with their successful application in real-world process control scenarios.

This books gives a realistic

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contemporary

image of
Hamiltonian
dynamics,

dealing with the
basic principles
of the
Hamiltonian

theory of chaos
in addition to
very recent and
unusual

applications of
nonlinear

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dynamics and the
fractality of
dynamics.

Applications Of

Fractional-order
calculus dates

to the 19th
century but has

been resurrected
as a prevalent

research subject
due to its

provision of
more adequate

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and realistic descriptions of physical aspects within the science and engineering fields. What was once a classical form of mathematics is currently being reintroduced as a new modeling technique that

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engineers and
scientists are
finding modern
uses for. There
is a need for
research on all
facets of these
fractional-order
systems and
studies of its
potential
applications.

Advanced
Applications of

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exploring the
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aspects of novel
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related
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dynamics,
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models, and
bifurcation
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book is ideally
designed for
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professionals,
mathematicians,
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analysts,
researchers,

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educators, and students seeking current research on fractional calculus and other applied mathematical modeling techniques.

And Media

Fractional calculus is a collection of relatively

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little-known
mathematical
results
concerning
generalizations
of
differentiation
and integration
to noninteger
orders. While
these results
have been
accumulated over
centuries in

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various branches
of mathematics,
they have until
recently found
little
appreciation or
application in
physics and
other
mathematically
oriented
sciences. This
situation is
beginning to

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change, and there are now a growing number of research areas in physics which employ fractional calculus. This volume provides an introduction to fractional calculus for physicists, and collects easily

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accessible

review articles

surveying those

areas of physics

in which

applications of

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calculus have

recently become

prominent.

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nonessential in
the past,

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fractional
calculus is now
gaining momentum
in the science
and engineering
community.

Various
disciplines have
discovered that
realistic models
of physical
phenomenon can
be achieved with
fractional

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calculus and are
using them in
numerous ways.

Since fractional
calculus

represents a
reactor more
closely than

classical Fields
integer order

calculus,
Fractional

Calculus with
Applications for

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Nuclear Reactor
Dynamics focuses
on the
application of
fractional
calculus to
describe the
physical
behavior of
nuclear
reactors. It
applies
fractional
calculus to

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incorporate the mathematical methods used to analyze the diffusion theory model of neutron transport and explains the role of neutron transport in reactor theory.

The author discusses fractional

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calculus and the
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solution for
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kinetic equation
(FNPKE),
introduces the
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accurate
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computation for
FNPKE with

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different values of reactivity, and analyzes the fractional neutron point kinetic (FNPK) model for the dynamic behavior of neutron motion. The book begins with an overview of nuclear reactors,

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explains how nuclear energy is extracted from reactors, and explores the behavior of neutron density using reactivity functions. It also demonstrates the applicability of the Haar wavelet method and

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introduces the
neutron
diffusion
concept to aid
readers in
understanding
the complex
behavior of
average neutron
motion. This
text: Applies
the effective
analytical and
numerical

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method (HWOM) to
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emphasizes the
relevance of its
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