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calculus, that is the



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the application of fractional calculus in physics, continuum mechanics, signal processing, and electromagnetics.

Here we state some of applications. 1. First one It may be important to point out that the first application of fractional calculus was made by

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Abel(1802-1829) in  
the solution of an  
integral

## Physics

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compare them with the standard ones. In terms of the equiaffine curvature with fractional order we obtain an equiaffine Frenet fo

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### 1. Introduction.

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Fractional calculus and corresponding fractional partial differential equations (fPDEs) have drawn increasing attention in various scientific disciplines involving heavy-tailed dynamics for two decades , , . When the integer-order derivative in a standard mass, momentum or energy

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replaced by a  
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derivative, the local  
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a branch of  
mathematical analysis  
that studies the

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several different possibilities of defining real number powers or complex number powers of the differentiation operator  $D = \frac{d}{dx}$ , and of the integration operator  $J = \int dx$ , and developing a calculus for such operators generalizing the classical one.. In this context, the term

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powers refers to  
iterative application  
of a ...

Fractional calculus -  
Wikipedia

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which publishes both  
surveys/reviews and  
research articles on  
the fields of fractional-  
order differential and  
integral equations  
and its applications in  
all fields of Science.

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Calculus and  
Applications

Fractional Calculus

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and Its Applications  
in Physics Fractional  
calculus is deeply  
related to the

dynamics of  
complicated real-  
world problems.

Fractional operators  
are non-local and  
describe several  
natural phenomena in  
a better and  
systematic manner.

Many mathematical

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models are accurately  
governed by  
fractional order  
differential equations.

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of fractional  
derivatives and  
fractional Integrals  
(Differintegrals) are  
considered. By means  
of them explicit  
formula and graphs  
of some special  
functions are derived.  
Also we review some  
applications of the

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definition and  
potential applications  
of fractional calculus.

The first chapter  
gives a brief history  
and definition of  
fractional calculus.

The second and third

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Chapters, respectively,  
look at the Riemann-  
Liouville definitions  
of the fractional  
integral and  
derivative. The fourth  
chapter looks at some  
fractional differential

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The fractional  
calculation is that

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branch of  
mathematical analysis  
that deals with the  
generalization of all  
linear operators  
based on the concept  
of derivative  
(derivative, integral,  
Laplace...

What are the  
applications of  
Fractional Geometric  
Calculus?



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Application of  
fractional calculus in  
the theory of  
viscoelasticity The  
advantage of the  
method of fractional  
derivatives in theory  
of viscoelasticity is  
that it aords  
possibilities for  
obtaining constitutive  
equations for elastic  
complex modulus of  
viscoelastic materials

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with only few  
experimentally  
determined  
parameters.

## Applications of Fractional Calculus – IJERT

The subject of  
fractional calculus  
(that is, calculus of  
integrals and  
derivatives of any  
arbitrary real or

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Fractional order) has gained considerable popularity and importance over the past four decades, due, mainly, to its demonstrated applications in numerous diverse and widespread fields of science

Operators of  
Fractional Calculus

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## Applications

Additional

applications have arisen recently in fractional diffusion processes, mathematical biology (random eye movements follow a fractional process), solar physics, and many other places. In these cases the

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Fractional derivatives  
are used (as noted  
above) primarily in  
writing models as  
fractional differential  
equations.

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