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Fractional Calculus with its Applications in Engineering ...

definition and potential applications of fractional calculus. The first chapter gives a brief history and definition of fractional calculus. The second and third chapters, respectively, look at the Riemann-Liouville definitions of the fractional integral and derivative. The fourth chapter looks at some fractional differential

Fractional Calculus: Definitions and Applications

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Operators of Fractional Calculus and Their Applications

Fractional calculus is a topic which theoretically extends the classical calculus by allowing the operators of differentiation and integration to take fractional orders, and which is nowadays playing an important role in describing the complicated dynamics of real world processes from various fields of science and engineering.

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Journal of Fractional Calculus and Applications is a peer-reviewed international electronic journal, 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.

Journal of Fractional Calculus and Applications

This book collects papers presented at the International Conference on Fractional Differentiation and its Applications (ICFDA), held at the University of Jordan, Amman, Jordan, on 16–18 July 2018. Organized into 13 chapters, the book discusses the latest trends in various fields of theoretical and applied fractional calculus. Besides an essential

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Fractional calculus is at this stage an arena where many models are still to be introduced, discussed and applied to real world applications in many branches of science and engineering where nonlocality plays a crucial role. Although researchers have already reported many excellent results in several seminal monographs and review articles, there are still a large number of non-local phenomena unexplored and waiting to be discovered.

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Fractional calculus is a branch of mathematical analysis that studies the several different possibilities of defining real number powers or complex number powers of the differentiation operator D . $D f (x) = d d x f (x)$, $\{\displaystyle Df(x)= {\frac {d} {dx}}f(x),\}$ and of the integration operator J .

Fractional calculus - Wikipedia

Fractional Calculus 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 models are accurately governed by fractional order differential equations.

Editorial: Fractional Calculus and Its Applications in Physics

Fractional calculus approach is a popular approach to analyze the anomalous relaxation processes and has been intensively studied in various dielectric materials.

FRACTIONAL CALCULUS AND ITS APPLICATIONS | Wen Chen | 12 ...

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