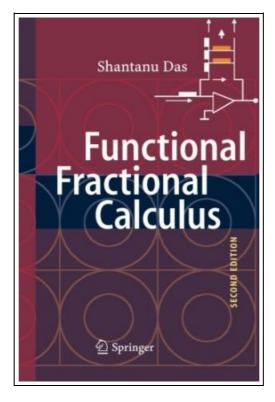
Functional Fractional Calculus



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Reviews

Complete guide! Its such a good go through. It is rally fascinating throgh reading period of time. Its been written in an extremely basic way and is particularly only after i finished reading through this publication through which really changed me, change the way i really believe. (Mrs. Macy Stehr)

FUNCTIONAL FRACTIONAL CALCULUS



Condition: New. Publisher/Verlag: Springer, Berlin | This book provides an introduction to Fractional Calculus for scientists and engineers. Mathematical abstractions are discussed in a lucid manner, with physical mathematical and geometrical explanations, and several practical applications are given. | When a new extraordinary and outstanding theory is stated, it has to face criticism and skeptism, because it is beyond the usual concept. The fractional calculus though not new, was not discussed or developed for a long time, particularly for lack of its application to real life problems. It is extraordinary because it does not deal with 'ordinary' differential calculus. It is outstanding because it can now be applied to situations where existing theories fail to give satisfactory results. In this book not only mathematical abstractions are discussed in a lucid manner, with physical mathematical and geometrical explanations, but also several practical applications are given particularly for system identification, description and then efficient controls. The normal physical laws like, transport theory, electrodynamics, equation of motions, elasticity, viscosity, and several others of are based on ' ordinary' calculus. In this book these physical laws are generalized in fractional calculus contexts; taking, heterogeneity effect in transport background, the space having traps or islands, irregular distribution of charges, nonideal spring with mass connected to a pointless-mass ball, material behaving with viscous as well as elastic properties, system relaxation with and without memory, physics of random delay in computer network; and several others; mapping the reality of nature closely. The concept of fractional and complex order differentiation and integration are elaborated mathematically, physically and geometrically with examples. The practical utility of local fractional differentiation for enhancing the character of singularity at phase transition or characterizing the irregularity measure of response function is deliberated. Practical results of viscoelastic experiments, fractional order controls experiments, design of fractional controller and...



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