

Fractional Dynamics Applications Of Fractional Calculus To Dynamics Of Particles Fields And Media Nonlinear Physical Science

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[arXiv:2208.13858v1 \[quant-ph\]](https://arxiv.org/abs/2208.13858v1)
29 Aug 2022

Aug 31, 2022 · Nowadays,
quantum physics in fractional
calculus and its general

properties have been
investigated and applied in dif-
ferent areas [1-4]. The key
ingredient in these approaches
is the use of a differential
operator with fractional order
written as $D_z^\alpha f(z)$, with

$2(0;1]$ representing the fractional order of

Study of Low-dimensional Nonlinear Fractional Difference

Aug 25, 2022 · Nonlinear dynamics of continuous-time complex order fractional systems has also received some attention. Pinto has studied the dynamics of two unidirectional rings of cells coupled through a buffer cell[19]. Applications of complex order derivative have been studied in animal locomotion[20]. The

ON LITERATURE AND TOOLS IN FRACTIONAL CALCULUS ...

In 1984, Koeller also carried the fractional calculus applications to viscoelasticity [8]. He used FC and Abel's integral equation

for materials with memory i.e., convolution type kernel (where fractional derivative actually makes sense). ... [24], dynamics of Typhoid fever [25], modelling of Hepatitis E [26] and dengue fever [27] etc. and is ...

arXiv:2208.09984v4 [gr-qc] 10 Sep 2022 Fractional Gravity.

Nonlocal Gravity. Fractional Calculus of Variations. arXiv:2208.09984v4 [gr-qc] 10 Sep 2022 Fractional Gravity. Fractional Field Theory. 1 Introduction ... applications of fractional calculus to quantum cosmology [21]-[24] and [25] for an interesting fractional ... The dynamics of the mimetic gravity is governed by the Einstein-Hilbert action ...