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a heavy-tailed distribution or non-negligible dependence between distant observations (local and long memory), are introduced and examined from the 'fractional' perspective using simulation, fractional-order modeling and filtering and realization of fractional-order systems. These fractional-order signal processing (FOSP) techniques are based on fractional ...

## **Fractional Processes and Fractional-Order Signal ...**

In Fractional Processes and Fractional-order Signal Processing, some complex random signals, characterized by the presence of a heavy-tailed distribution or non-negligible dependence between distant observations (local and long memory), are introduced and examined from the 'fractional' perspective using simulation, fractional-order modeling and filtering and realization of fractional-order systems.

## **Fractional Processes and Fractional-Order Signal ...**

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Since diffusion processes are involved, and anomalous diffusion can often be found in biological processes, these equations can be considered of fractional order. By varying this fractional order, the interference of an osteolytic metastatic bone disease can be modeled as a reduction of the differential order.

## **Fractional-Order - an overview | ScienceDirect Topics**

Fractional processes, which can be considered as outputs of the fractional-order systems, have significant and complex long-memory properties. In order to best understand the fractional-order systems and extract valuable information from the fractional-order signals, fractional-order signal processing techniques are put forward for different kinds of fractional signals. All discussions on fractional-order signal processing techniques are centered around fractional calculus, fractional ...

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Fractional processes are widely found in science, technology and engineering systems. In Fractional Processes and Fractional-order Signal Processing, some complex random signals, characterized by the presence of a heavy-tailed distribution or non-negligible dependence between distant observations (local and long memory), are introduced and examined from the 'fractional' perspective using simulation, fractional-order modeling and filtering and realization of fractional-order systems.

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The book presents efficient numerical methods for simulation and analysis of physical processes exhibiting fractional order (FO) dynamics. The book introduces FO system identification method to estimate parameters of a mathematical model under consideration from experimental or simulated data. A simple tuning technique, which aims to produce a robust FO PID controller exhibiting iso-damping ...

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equations with Z-transform. Stochastic Analysis and Applications:  
Vol. 38, No. 5, pp. 939-957.

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Book Description: The book presents efficient numerical methods for simulation and analysis of physical processes exhibiting fractional order (FO) dynamics. The book introduces FO system identification method to estimate parameters of a mathematical model under consideration from experimental or simulated data.

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Chapter 2 provides an overview of basic concepts of fractional processes and fractional-order signal processing techniques from the perspective of fractional signals and fractional-order systems.

## **An Overview of Fractional Processes and Fractional-Order**

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important aspect of research in fractional order circuits and  
systems is that it is an interdisciplinary subject specifically  
authors saptarshi das suman

## **Fractional Order Signal Processing Author Saptarshi Das**

...

In probability theory, a fractional Poisson process is a stochastic process to model the long-memory dynamics of a stream of counts. The time interval between each pair of consecutive counts follows the non-exponential power-law distribution with parameter  $\alpha$ , which has physical dimension  $[\alpha] = -1$ , where  $0 < \alpha \leq 1$ . In other words, fractional Poisson process is non-Markov counting stochastic process ...



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## **Fractional Poisson process - Wikipedia**

Fractional Calculus and Fractional Processes with Applications to Financial Economics presents the theory and application of fractional calculus and fractional processes to financial data. Fractional calculus dates back to 1695 when Gottfried Wilhelm Leibniz first suggested the possibility of fractional derivatives.

## **Fractional Calculus and Fractional Processes with ...**

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