# Fractional Kinetics In Solids Anomalous Charge Transport In Semiconductors Dielectrics And Nanosystems

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**Fractional Kinetics In Solids Anomalous**

Fractional Kinetics in Solids:Anomalous Charge Transport in Semiconductors, Dielectrics and Nanosystems - Kindle edition by Vladimir Uchaikin, Renat

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**Fractional Kinetics In Solids:**

**Anomalous Charge Transport ...**

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**Fractional Kinetics in Solids**

It is shown that the approach based on the anomalous transport models and the fractional kinetic equations may be very useful in some problems that involve nano-sized systems. These are photon counting statistics of blinking single quantum dot fluorescence, relaxation of current in colloidal quantum dot arrays, and some others.

**Fractional Kinetics in Solids - World Scientific**

Fractional kinetics in solids; anomalous charge transport in semiconductors, dielectrics, and nanosystems. Uchaikin, Vladimir and Renat Sibatov. World Scientific

**Fractional kinetics in solids; anomalous charge transport ...**

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**Fractional kinetics in solids : anomalous charge transport ...**

PDF | On Jan 12, 2013, Renat Sibatov and others published Contents and

Preface of "Fractional Kinetics in Solids: Anomalous Charge Transport in Semiconductors, Dielectrics and Nanosystems", by V ...

**(PDF) Contents and Preface of "Fractional Kinetics in ...**

Fractional Kinetics In Solids (Hardcover). The standard (Markovian) transport

model based on the Boltzmann equation cannot describe some non-equilibrium...

**Fractional Kinetics In Solids Anomalous Charge Transport ...**

The memory phenomena in systems under consideration are discussed in the analysis of fractional equations. It is shown that the approach based on the

anomalous transport models and the fractional kinetic equations may be very useful in some problems that involve nano-sized systems.

**Fractional Kinetics in Solids: Anomalous Charge Transport ...**

Kinetic equations with fractional-order derivatives play a central role in the

modeling of anomalous relaxation and diffusion processes in complex systems.

**(PDF) Chapter 1: Statistical grounds. In: Fractional ...**

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**Fractional Kinetics In Solids: Anomalous Charge Transport ...**

Fractional Kinetics in Solids : Anomalous

Charge Transport in Semiconductors, Dielectrics, and Nanosystems. [V V Uchaĭkin] -- The standard (Markovian) transport model based on the Boltzmann equation cannot describe some non-equilibrium processes called anomalous that take place in many disordered solids.

**Fractional Kinetics in Solids : Anomalous Charge Transport ..**

Fractional Kinetics in Solids : Anomalous Charge Transport in Semiconductors, Dielectrics and Nanosystems.. [Vladimir Uchaikin; Renat Sibatov] -- The standard (Markovian) transport model based on the Boltzmann equation cannot describe some non-equilibrium processes called

anomalous that take place in many disordered solids.

**Fractional Kinetics in Solids : Anomalous Charge Transport ...**

Evidence of anomalous diffusion of impurities and defects in disordered solids stimulates to develop generalized models. In present work, we study the

kinetics of subdiffusion-limited growth and dissolution of nanoprecipitates in disordered solids on the base of subdiffusion equations with fractional derivatives.

**Fractional kinetics of subdiffusion-limited decomposition ...**

New characteristics of the kinetics are

involved to fractional kinetics and the most important are anomalous transport, superdiffusion, weak mixing, and others. The fractional kinetics does not look as the usual one since some moments of the distribution function are infinite and fluctuations from the equilibrium state do not have any finite time of relaxation.

**Chaos, fractional kinetics, and anomalous transport ...**

The fractional value of α in the Lewis Model suggests that the diffusion is anomalous since a Lewis model with a noninteger α had a nonexponential behavior. As the diffusion is anomalous and the data are nonexponential, it was

recommended the use of nonexponential models or fractional-order models to represent the soybean drying kinetics.

**The fractional calculus in studies on drying: A new ...**

The asymmetric fractional stable density is simply defined by The characteristic

function of a fractional stable lawis expressed through the Mittag-Leffler function Further, we consider only subdiffusive case for transport in GB and bulk, because this type of anomalous diffusion is observed more frequently in disordered solids.

**Anomalous Grain Boundary**

**Diffusion: Fractional Calculus ...**

V.V. Uchaikin, R. Sibatov, Fractional Kinetics in Solids: Anomalous Charge Transport in Semiconductors, Dielectrics and Nanosystems. World Scientific Publishing, Singapore (2013). [122] D. Valerio, J.T. Machado, V. Kiryakova, Some pioneers of the appli-cations of fractional calculus. Fract. Calc. Appl.

Anal.

**Models of dielectric relaxation based on completely ...**

The effect of anomalous diffusion of lithium on the discharge curves and impedance spectra of lithium-ion batteries (LIB) is studied within the fractional differential generalization of

the single-particle model. The distribution of lithium ions in electrolyte and electrode particles is expressed through the Mittag–Leffler function and the Lévy stable density.

**Electronics | Free Full-Text | Fractional Differential ...**

Equations with fractional derivatives

describe many important physical phenomena in amorphous, colloid, glassy, and porous materials, in fractals, comb structures, polymers, and random and disordered materials, in viscoelasticity and hereditary mechanics of solids, in biological systems, and in geophysical and geological processes (see, e.g., [22-30] and the references

therein).