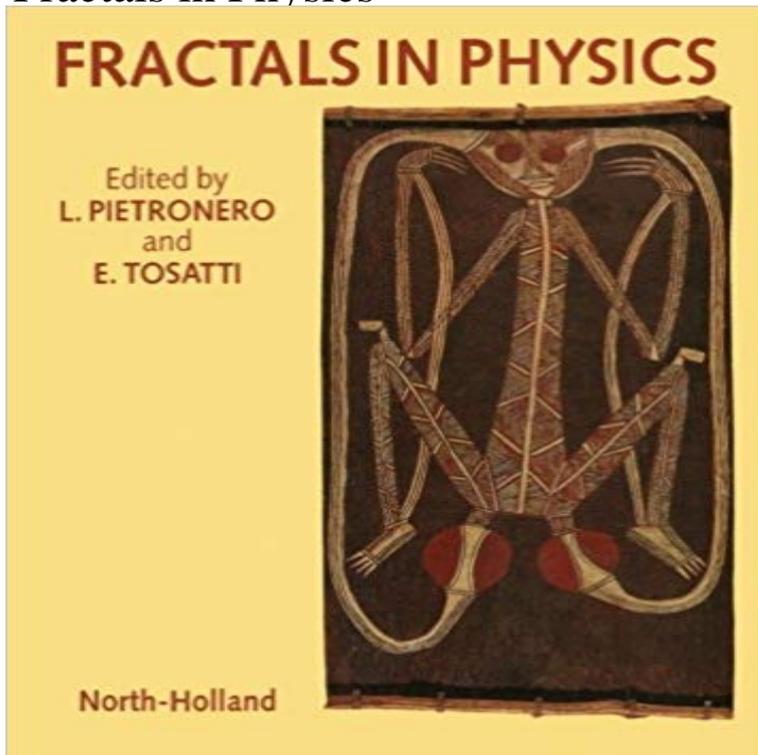


Fractals in Physics



The concepts of self-similarity and scale invariance have arisen independently in several areas. One is the study of the critical properties of phase transitions; another is fractal geometry, which involves the concept of (non-integer) fractal dimension. These two areas have now come together, and their methods have extended to various fields of physics. The purpose of this Symposium was to provide an overview of the physical phenomena that manifest scale invariance and fractal properties with the aim of bringing out the common mathematical features. The emphasis was on theoretical and experimental work related to well defined physical phenomena.

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Tino Kluge In physical cosmology, fractal cosmology is a set of minority cosmological theories which state . a number of years to reconcile Relativity with Quantum Mechanics, and thereby to unify the laws of Physics, using Noncommutative geometry. **Physics and Fractal Structures Advanced Fractal Physics and Zero Point Vacuum Coherence with** Electrons interfere to create fractal patterns in ferromagnet. **Physics - Synopsis: Fractals for Sharper Vision** Note : this document gives the state of the researches at the beginning of the nineties. It remains a good introduction to the fractals in physics. The reader is **Will Fractals Revolutionize Physics, Biology and Other Sciences Spacetime May Have Fractal Properties on a Quantum Scale** This first article, in a series of five, introduces Fractal Physics Theory, theory of fractal-Cantorian spacetime to physics, where spacetime is an **Fractals in physics: applications and theoretical developments** The concepts of self-similarity and scale invariance have arisen independently in several areas. One is the study of the critical properties of phase transitions another is fractal geometry, which involves the concept of (non-integer) fractal dimension. **Fractals Statistical Physics II, Bf. 27** Fractals in physics. 3. Brief Introduction. Fractals are the main concern of fractal geometry, which is a branch of mathematics concerned with irregular patterns made of parts that are in some way similar to the whole. **Fractals in Geophysics - Google Books Result** A new application of a fractal concept to quantum physics has been developed. The fractional path integrals over the paths of the Levy flights are defined. **Fractal - Wikipedia** To many chaologists, the study of chaos and fractals is more than just a new field in science that unifies mathematics, theoretical physics, art, and computer **Physics - Focus: Rocks as Fractals Fractals in Physics - 1st Edition - Elsevier** FEDER, J., Fractals (Plenum, New York 1988). MANDELBROT, B. B. (1984), Fractals in Physics: Squig Clusters, Diffusions, Fractal Measures and the Unicity