

Fractal Modeling Of Lightning Discharges A Thesis In Electrical Engineering

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## Summary:

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Fractal - Wikipedia Similarly, random fractals have been used to describe/create many highly irregular real-world objects. A limitation of modeling fractals is that resemblance of a fractal model to a natural phenomenon does not prove that the phenomenon being modeled is formed by a process similar to the modeling algorithms. Fractal Audio Systems - Official Site Fractal Audio Systems's™ new flagship processor is packed with power, features, and upgrades. Featuring our latest amp modeling technology, thousands of UltraResâ„¢ speaker cab simulations, and industry-leading effects, the Axe-Fx III has more raw power and features than any guitar processor ever created. Modelling nature with fractals | plus.maths.org Fractals are now used in many forms to create textured landscapes and other intricate models. It is possible to create all sorts of realistic fractal forgeries , images of natural scenes, such as lunar landscapes, mountain ranges and coastlines to name but a few.

How Fractals Can Explain What's Wrong with Wall Street ... The beauty of fractal geometry is that it makes possible a model general enough to reproduce the patterns that characterize portfolio theory's placid markets as well as the tumultuous trading. Fractal modeling of natural fracture networks - Digital ... West Virginia University will implement procedures for a fractal analysis of fractures in reservoirs. This procedure will be applied to fracture networks in outcrops and to fractures intersecting horizontal boreholes. The parameters resulting from this analysis will be used to generate synthetic fracture networks with the same fractal characteristics as the real networks. Fractal component model - Wikipedia It can execute the same applications as Julia, including Fractal RMI, Fractal ADL, Fractal Explorer. FracTalk is a SmallTalk implementation of the Fractal component model. FractNet is a .Net implementation of the Fractal component model. Plasma is a C++ implementation of Fractal, geared at multimedia applications.

Fractal modeling of elastic-plastic contact between three ... This paper aims to propose a semi-analytical model to investigate the elastic-plastic contact between fractal rough surfaces. Parametric studies have been performed to analyze the dependencies between the contact properties and the scale-independent fractal parameters. Fractal Analysis and Modeling of VoIP Traffic - ResearchGate Fractal Analysis and Modeling of VoIP Traffic •, Trang Dinh Dang, Balázs Sonkoly, Sándor Molnár High Speed Networks Lab, Dept. of Telecommunications & Media Informatics. Modeling fractal structure of systems of Cities using ... between different fractal models. The correlation function is an effective mathematical tool to describe the fractal structure of the chaotic attractor in pseudo phase space. It is simple yet natural to extend the correlation function analysis from the phase space.

Experimental determination and fractal modeling of the ... Predicted thermal conductivity of dry and moist AAC by the fractal models. Having presented before, the two-phase and three-phase fractal models were both constructed based on the Sierpinski carpet with  $L = 13$  and  $C = 1, 2, \text{ or } 3$ . A necessary input to the models, the matrix thermal conductivity for the various AAC samples was determined, using Eqs.

fractal modeling of road surface