



Physics of Fractal Operators (Hardback)

By Bruce West, Mauro Bologna, Paolo Grigolini

Springer-Verlag New York Inc., United States, 2003. Hardback. Condition: New. 2003 ed. Language: English. Brand new Book. This text describes the statistical behavior of complex systems and shows how the fractional calculus can be used to model the behavior. The discussion emphasizes physical phenomena whose evolution is best described using the fractional calculus, such as systems with long-range spatial interactions or long-time memory. The book gives general strategies for understanding wave propagation through random media, the nonlinear response of complex materials, and the fluctuations of heat transport in heterogeneous materials.



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