



# Fractals: Patterns in Nonlinear Dynamics and Applications

*Santo Banerjee, Sayan Mukherjee*

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The aim of this book is to describe the essence of fractals and multifractals dynamics in the applications of bioscience and engineering, bioinformatics, and financial time series. To reach these aims, the book covers the basic idea, history, structure, methodology and analysis of fractals, the relationship between fractals and nonlinear dynamics, the applications of fractal and multifractal analysis in biomedical science, and how fractal signals and images are modelled by Iterated Function system. Illustrations and practical applications are given throughout the text to provide clear interpretations and explanations of various complex fractal objects and fractal modelling.

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