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Fractals in Biology and Medicine

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Book Condition: New. Publisher/Verlag: Springer, Basel | "Fractals in Biology and Medicine, Volume 2" explores the potential of the fractal geometry in understanding how to analyse natural shapes. The volume devotes special emphasis to the complex field of human tumours. | Fractal Design of Biological Structures and Functions.- Some Remarks on Fractals and Dynamical Systems (Classical/Stochastic) in Biology.- Dynamical Generators of Lévy Statistics in Biology.- Biological Cellular Morphometry-Fractal Dimensions, Lacunarity and Multifractals.- Spatial Pattern Analysis using Chaos Theory: A Nonlinear Deterministic Approach to the Histological Texture of Tumours.- Asymptotic Fractals.- Special Approaches of Image Analysis to the Measurement of Fractal Dimension.- Fractal Analysis of Landscapes in Medicine.- Fractal Regional Myocardial Blood Flows: The Anatomical Basis.- Arterial Vasomotion: Effect of Mechanical Forces and Evidence of Nonlinear Dynamics.- Dynamical Analysis of Heartbeat Interval Time Series After Cardiac Transplantation.- Low-Dimensional Chaos in Large Conductance Ca-Activated K-Channel Gating Kinetics.- p-Adic Model for Population Growth.- Evolution of Life in a Fractal Universe.- Chromatin Structure, DNA Organisation and Nuclear Membranes.- Fractal Characterization of Nuclear Texture in Breast Cytology: Frequency and Spatial Domain Approaches.- Fractal Dimension of Perinuclear Membrane and of Nuclear Membrane-bound Heterochromatin in Human Breast Cancer Cells Targeted by Steroid Hormones.- Fractal Analysis of Heterochromatin...

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