



Fractals in the Earth Sciences

Edited by Christopher C. Barton
and Paul R. La Pointe

Fractals In The Earth Sciences

Donald L. Turcotte



Fractals In The Earth Sciences:

Fractals in the Earth Sciences C.C. Barton,P.R. La Pointe,2013-06-29 Fractals have changed the way we understand and study nature This change has been brought about mainly by the work of B B Mandelbrot and his book The Fractal Geometry of Nature Now here is a book that collects articles treating fractals in the earth sciences The themes chosen span as is appropriate for a discourse on fractals many orders of magnitude including earthquakes ocean floor topography fractures faults mineral crystallinity gold and silver deposition There are also chapters on dynamical processes that are fractal such as rivers earthquakes and a paper on self organized criticality Many of the chapters discuss how to estimate fractal dimensions Hurst exponents and other scaling exponents This book in a way represents a snapshot of a field in which fractals has brought inspiration and a fresh look at familiar subjects New ideas and attempts to quantify the world we see around us are found throughout Many of these ideas will grow and inspire further work others will be superseded by new observations and insights most probably with future contributions by the authors of these chapters *Application of Fractals in Earth Sciences* V.P. Dimri,2000-01-01 This text examines the emerging field of fractals and its applications in earth sciences Topics covered include concepts of fractal and multifractal chaos the application of fractals in geophysics geology climate studies and earthquake seismology **Fractal Models in the Earth Sciences** Gabor Korvin,1992 A fractal is a mathematical set or object whose form is extremely irregular and or fragmented at all scales So reads Mandelbrot s definition of the term which he coined and widely popularised in his famous monographs This volume presents the first systematic summary of the fractal models that have been proposed to explain the irregular features and phenomena of the Earth from meandering rivers and rugged coastlines to the pore space of reservoir sandstones and the prediction of earthquakes No previous knowledge of fractals is assumed Connections and analogies with other fields of natural and technical sciences physics biology fractography etc are always pointed out More than 300 illustrations are included demonstrating how fractal geometry reveals astonishing similarities between natural phenomena at widely different scales The readership for this book is wide and includes geological scientists oceanographers and meteorologists involved in describing and analysing irregular spatial data as well as applied mathematicians physicists and computer scientists looking for new fields of research **Fractals and Chaos in the Earth Sciences** SAMMIS,SAMIS,SAITO,KING,2013-11-22 *Fractal Solutions for Understanding Complex Systems in Earth Sciences* V.P. Dimri,2015-11-21 This book deals with fractals in understanding problems encountered in earth science and their solutions It starts with an analysis of two classes of methods homogeneous fractals random models and homogeneous source distributions or one point distributions widely diffused in the geophysical community especially for studying potential fields and their related source distributions Subsequently the use of fractals in potential fields is described by scaling spectral methods for estimation of curie depth The book also presents an update of the use of the fractal concepts in geological understanding of faults and their significance in

geological modelling of hydrocarbon reservoirs Geophysical well log data provide a unique description of the subsurface lithology here the Detrended Fluctuation Analysis technique is presented in case studies located off the west coast of India Another important topic is the fractal model of continuum percolation which quantitatively reproduce the flow path geometry by applying the Poiseuille's equation The pattern of fracture heterogeneity in reservoir scale of natural geological formations can be viewed as spatially distributed self similar tree structures here the authors present simple analytical models based on the medium structural characteristics to explain the flow in natural fractures The Fractal Differential Adjacent Segregation F DAS is an unconventional approach for fractal dimension estimation using a box count method The present analysis provides a better understanding of variability of the system adsorbents adsorbate interactions Towards the end of book the authors discuss multi fractal scaling properties of seismograms in order to quantify the complexity associated with high frequency seismic signals Finally the book presents a review on fractal methods applied to fire point processes and satellite time continuous signals that are sensitive to fire occurrences

Fractals in Natural Sciences Tamás Vicsek, Michael F. Shlesinger, Mitsugu Matsushita, 1994 During the last couple of years fractals have been shown to represent the common aspects of many complex processes occurring in an unusually diverse range of fields including biology chemistry earth sciences physics and technology Using fractal geometry as a language it has become possible to get a deeper insight into previously intractable problems Among many others a better understanding of growth phenomena turbulence interactive functions colloidal aggregation biological pattern formation and inhomogeneous materials has emerged through the application of such concepts as scale invariance self affinity and multifractality This volume contains a selection of high quality papers that discuss the latest developments in the research of fractals It is divided into 5 sections and contains altogether 64 papers Each paper is written by a well known author or authors in the field Beginning each section is a short introduction written by a prominent author which gives a brief overview of the topics discussed in the respective sections

Wavelets and Fractals in Earth System Sciences E. Chandrasekhar, V. P. Dimri, V. M. Gadre, 2013-11-20 The subject of wavelet analysis and fractal analysis is fast developing and has drawn a great deal of attention in varied disciplines of science and engineering Over the past couple of decades wavelets multiresolution and multifractal analyses have been formalized into a thorough mathematical framework and have found a variety of applications with significant impact in several branches of earth system sciences Wavelets and Fractals in Earth System Sciences highlights the role of advanced data processing techniques in present day research in various fields of earth system sciences The book consists of ten chapters providing a well balanced blend of information about the role of wavelets fractals and multifractal analyses with the latest examples of their application in various research fields By combining basics with advanced material this book introduces concepts as needed and serves as an excellent introductory material and also as an advanced reference text for students and researchers

Fractals In Natural Science M Matsushita, Michael F Shlesinger, Tamas Vicsek, 1994-10-26 During the last couple of

years fractals have been shown to represent the common aspects of many complex processes occurring in an unusually diverse range of fields including biology chemistry earth sciences physics and technology Using fractal geometry as a language it has become possible to get a deeper insight into previously intractable problems Among many others a better understanding of growth phenomena turbulence interactive functions colloidal aggregation biological pattern formation and inhomogenous materials has emerged through the application of such concepts as scale invariance self affinity and multifractality This volume contains a selection of high quality papers that discuss the latest developments in the research of fractals It is divided into 5 sections and contains altogether 64 papers Each paper is written by a well known author or authors in the field Beginning each section is a short introduction written by a prominent author which gives a brief overview of the topics discussed in the respective sections **Fractals and Chaos in the Earth Sciences** Charles G. Sammis, M.

Saito, 1993 *Fractals in Petroleum Geology and Earth Processes* C.C. Barton, P.R. La Pointe, 2012-12-06 In this unique volume renowned experts discuss the applications of fractals in petroleum research offering an excellent introduction to the subject Contributions cover a broad spectrum of applications from petroleum exploration to production Papers also illustrate how fractal geometry can quantify the spatial heterogeneity of different aspects of geology and how this information can be used to improve exploration and production results **Fractals in Science** Armin Bunde, Shlomo Havlin, 2013-12-21

Applying fractal geometry to science is bringing about a breakthrough in our understanding of complex systems in nature that show self similar or self affine features Self similar and self affine processes appear everywhere in nature in galaxies and landscapes in earthquakes and geological cracks in aggregates and colloids in rough surfaces and interfaces in glassy materials and polymers in proteins as well as in other large molecules Fractal structures appear also in the human body well known examples include the lung and the vascular system Furthermore fractal geometry is an important tool in the analysis of phenomena as diverse as rhythms in music melodies and in the human heart beat and DNA sequences Since the pioneering work of B B Mandelbrot this interdisciplinary field has expanded very rapidly The scientific community applying fractal concepts is very broad and ranges from astronomers geoscientists physicists chemists and engineers to biologists and those engaging in medical research *Fractals and Chaos in Geology and Geophysics* Donald L. Turcotte, 1997-07-13 The fundamental concepts of fractal geometry and chaotic dynamics along with the related concepts of multifractals self similar time series wavelets and self organized criticality are introduced in this book for a broad range of readers interested in complex natural phenomena Now in a greatly expanded second edition this book relates fractals and chaos to a variety of geological and geophysical applications All concepts are introduced at the lowest possible level of mathematics consistent with their understanding so that the reader requires only a background in basic physics and mathematics **Wavelets and Fractals in Earth System Sciences** E. Chandrasekhar, V. P. Dimri, V. M. Gadre, 2013-11-20 The subject of wavelet analysis and fractal analysis is fast developing and has drawn a great deal of attention in varied disciplines of science and engineering

Over the past couple of decades wavelets multiresolution and multifractal analyses have been formalized into a thorough mathematical framework and have found a variety of applications w

Fractals and Dynamic Systems in Geoscience Jörn H. Kruhl, 2013-06-29 Fractal geometry allows the description of natural patterns and the establishment and testing of models of pattern formation In particular it is a tool for geoscientists The aim of this volume is to give an overview of the applications of fractal geometry and the theory of dynamic systems in the geosciences The state of the art is presented and the reader obtains an impression of the variety of fields for which fractal geometry is a useful tool and of the different methods of fractal geometry which can be applied In addition to specific information about new applications of fractal geometry in structural geology physics of the solid earth and mineralogy proposals and ideas about how fractal geometry can be applied in the reader's field of studies will be put forward

Fractals in Soil Science Y. Pachepsky, J.W. Crawford, W.J. Rawls, 2000-07-19 This book presents the state of the art after fifteen years of exponentially growing applications of fractal geometry in soil science It demonstrates the wide ranging applicability of fractal models in soil science and indicates new opportunities to integrate processes in soils within or across scales using fractals Contributed by some of the pioneers in the field chapters represent a broad spectrum of applications from geochemistry to microbiology and from scales of micrometers to the landscape and serve as an introduction to the subject Topics include fractal aspects of soil structure porosity and texture scaling in preferential and hydraulic conductivity anoxic volumes and adsorption in fractal models of soil characterization of the pore surface irregularity fractal properties of soil organic matter fractal concepts in studies of soil fauna and mycelium in soils and fractal analysis of spatial and temporal variability in soil properties and crop yields A wide spectrum of methods for identifying and measuring fractal properties is introduced and critically discussed Although the book focussed on solving problems in soil science the applications and the fractal approach used share much in common with many other fields within and outside of the earth sciences A unique bibliography on fractals in soils science is included

Fractals in the Physical Sciences Hideki Takayasu, 1990

Revival: Fractals in Soil Science (1998) Philippe Baveye, Jean-Yves Parlange, B.A. Stewart, 2017-07-28 The application of fractals and fractal geometry in soil science has become increasingly important over the last few years This self contained and timely book was designed to provide detailed and comprehensive information on the current status of the application of fractal geometry in soil science and on prospects for its future use With a detailed and specific introductory chapter particular attention is paid to comparing and contrasting fractal and fragmentation concepts Some uses of fractals such as to quantify the retention and transport properties of soils to describe the intricate geometry of pore surfaces and macropore networks or to elucidate the rooting patterns of various plants are discussed Applications of fractals in soil science are both relatively recent and in constant evolution This book reflects accurately existing trends by allowing sharp differences among the viewpoints expressed in contributed chapters to be presented to the reader in one self contained volume

Fractals Behzad Ghanbarian, Allen G. Hunt, 2017-11-23 This book

provides theoretical concepts and applications of fractals and multifractals to a broad range of audiences from various scientific communities such as petroleum chemical civil and environmental engineering atmospheric research and hydrology In the first chapter we introduce fractals and multifractals from physics and math viewpoints We then discuss theory and practical applications in detail In what follows in chapter 2 fragmentation process is modeled using fractals Fragmentation is the breaking of aggregates into smaller pieces or fragments a typical phenomenon in nature In chapter 3 the advantages and disadvantages of two and three phase fractal models are discussed in detail These two kinds of approach have been widely applied in the literature to model different characteristics of natural phenomena In chapter 4 two and three phase fractal techniques are used to develop capillary pressure curve models which characterize pore size distribution of porous media Percolation theory provides a theoretical framework to model flow and transport in disordered networks and systems Therefore following chapter 4 in chapter 5 the fractal basis of percolation theory and its applications in surface and subsurface hydrology are discussed In chapter 6 fracture networks are shown to be modeled using fractal approaches Chapter 7 provides different applications of fractals and multifractals to petrophysics and relevant area in petroleum engineering In chapter 8 we introduce the practical advantages of fractals and multifractals in geostatistics at large scales which have broad applications in stochastic hydrology and hydrogeology Multifractals have been also widely applied to model atmospheric characteristics such as precipitation temperature and cloud shape In chapter 9 these kinds of properties are addressed using multifractals At watershed scales river networks have been shown to follow fractal behavior Therefore the applications of fractals are addressed in chapter 10 Time series analysis has been under investigations for several decades in physics hydrology atmospheric research civil engineering and water resources In chapter 11 we therefore provide fractal multifractal multifractal detrended fluctuation analyses which can be used to study temporal characterization of a phenomenon such as flow discharge at a specific location of a river Chapter 12 addresses signals and again time series using a novel fractal Fourier analysis In chapter 13 we discuss constructal theory which has a perspective opposite to fractal theories and is based on optimization of diffusive exchange In the case of river drainages for example the constructal approach begins at the divide and generates headwater streams first rather than starting from the fundamental drainage pattern

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Biophysical Chemistry of Fractal Structures and Processes in Environmental Systems Nicola Senesi, Kevin J. Wilkinson, 2008-09-15 This book aims to provide the scientific community with a novel and valuable approach based on fractal geometry concepts on the important properties and processes of diverse environmental systems The interpretation of complex environmental systems using modern fractal approaches is compared and contrasted with the more classical approaches The book will provide the fundamental knowledge necessary for solving practical environmental problems Furthermore it examines how the fractal approach has been applied in order to understand the structure and reactivity of natural environmental systems including flocs sediments soils microorganisms and humic substances

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