

Studies of Nonlinear Phenomena in Life Sciences – Vol. 3

**THE
LURE
OF
MODERN
SCIENCE**

**Bruce J. West
Bill Deering**

World Scientific

Lure Of Modern Science Fractal Thinking

Joachim P Sturmborg, Carmel Martin



Lure Of Modern Science Fractal Thinking:

The Lure of Modern Science Bruce J. West, William D. Deering, 1995 Lure Of Modern Science, The: Fractal Thinking Bill Deering, Bruce J West, 1995-05-31 The authors describe mostly in non technical language the development of a new scientific paradigm based on nonlinear deterministic dynamics and fractal geometry The concepts from these two mathematical disciplines are interwoven with data from the physical social and life sciences In this way rather sophisticated mathematical concepts are made accessible through experimental data from various disciplines and the formalism is relegated to appendices It is shown that the complexity of natural and social phenomena invariably lead to inverse power law distributions both in terms of probabilities and spectra This book tries to show how to think differently about familiar phenomena such as why the bell shape curve ought not to be used in teaching or in the characterization of such complex phenomena as intelligence Thinking in Complexity Klaus Mainzer, 2007-09-07 The theory of nonlinear complex systems has become by now a proven problem solving approach in the natural sciences And it is now also recognized that many if not most of our social ecological economical and political problems are essentially of a global complex and nonlinear nature And it is now further accepted than any holistic perspective of the human mind and brain can hardly be achieved by any other approach In this wide ranging scholarly but very concise treatment physicist computer scientist and philosopher Klaus Mainzer discusses in essentially nontechnical language the common framework behind these ideas and challenges Emphasis is given to the evolution of new structures in natural and cultural systems and we are lead to see clearly how the new integrative approach can give insights not available from traditional reductionistic methods The fifth edition enlarges and revises almost all sections and supplements an entirely new chapter on the complexity of economic systems From the reviews of the fourth edition this highly recommended book is a wonderful resource for intuitive basic ideas in the need of rigorous formulation Albert A Mullin Zentralblatt MATH **Fractal Physiology and Chaos in Medicine** Bruce J. West, 2012 This exceptional book is concerned with the application of fractals and chaos as well as other concepts from nonlinear dynamics to biomedical phenomena Herein we seek to communicate the excitement being experienced by scientists upon making application of these concepts within the life sciences Mathematical concepts are introduced using biomedical data sets and the phenomena being explained take precedence over the mathematics In this new edition what has withstood the test of time has been updated and modernized speculations that were not borne out have been expunged and the breakthroughs that have occurred in the intervening years are emphasized The book provides a comprehensive overview of a nascent theory of medicine including a new chapter on the theory of complex networks as they pertain to medicine **Heaven's Fractal Net** William J. Jackson, 2022-09-26 Heaven's Fractal Net explores the uniquely useful geometrical forms found in nature and in cultures of the world The visual shapes of fractals attract eyes with their fascinating beauty They appear in images and designs with reiterated patterns whose parts are self similar to the whole pattern just as a fern frond is structured with

smaller and smaller self similar branches The fractal like imagery in religious architecture has been used to symbolize infinity consciousness vertigo and wonder In nature fractals serve as dynamic configurations for circulation including the branching shapes of trees and lungs rivers and nerves A wealth of fractal examples is found in arts symbols and decorations Heaven's Fractal Net is a book which explores self similarities in worldwide cultures providing a rich background for examining many geometrical shapes used by humanity exploring processes of creativity in wisdom traditions and delving into archetypal images in depth psychology Fractals offer an organizing principle for many different kinds of hierarchies and composites and in recent years fractal has become a familiar household word for a new yet ancient geometry

Fractal-Based Point Processes Steven Bradley Lowen, Malvin Carl Teich, 2005-09-19 An integrated approach to fractals and point processes This publication provides a complete and integrated presentation of the fields of fractals and point processes from definitions and measures to analysis and estimation The authors skillfully demonstrate how fractal based point processes established as the intersection of these two fields are tremendously useful for representing and describing a wide variety of diverse phenomena in the physical and biological sciences Topics range from information packet arrivals on a computer network to action potential occurrences in a neural preparation The authors begin with concrete and key examples of fractals and point processes followed by an introduction to fractals and chaos Point processes are defined and a collection of characterizing measures are presented With the concepts of fractals and point processes thoroughly explored the authors move on to integrate the two fields of study Mathematical formulations for several important fractal based point process families are provided as well as an explanation of how various operations modify such processes The authors also examine analysis and estimation techniques suitable for these processes Finally computer network traffic an important application used to illustrate the various approaches and models set forth in earlier chapters is discussed Throughout the presentation readers are exposed to a number of important applications that are examined with the aid of a set of point processes drawn from biological signals and computer network traffic Problems are provided at the end of each chapter allowing readers to put their newfound knowledge into practice and all solutions are provided in an appendix An accompanying Web site features links to supplementary materials and tools to assist with data analysis and simulation With its focus on applications and numerous solved problem sets this is an excellent graduate level text for courses in such diverse fields as statistics physics engineering computer science psychology and neuroscience

Emergent Nature: Patterns, Growth And Scaling In The Sciences Miroslav M Novak, 2002-02-04 This book based on presentations made at the international conference Fractals 2002 is of interest to everyone in the general field of nonlinear dynamics The abundance of papers from numerous disciplines makes it exciting reading and provides a unifying thread through the topics such as ray tracing structure of peptides modeling fractal surfaces cancer growth macaque monkey cortical neurons occurrence of earthquakes and patterns of the World Wide Web

Fractal Time Susie Vrobel, 2011 This book provides an interdisciplinary introduction to the notion of

fractal time starting from scratch with a philosophical and perceptual puzzle How subjective duration varies depending on the way we embed current content into contexts is explained The complexity of our temporal perspective depends on the number of nestings performed i e on the number of contexts taken into account This temporal contextualization is described against the background of the notion of fractal time Our temporal interface the Now is portrayed as a fractal structure which arises from the distribution of content and contexts in two dimensions the length and the depth of time The leitmotif of the book is the notion of simultaneity which determines the temporal structure of our interfaces Recent research results are described which present and discuss a number of distorted temporal perspectives It is suggested that dynamical diseases arise from unsuccessful nesting attempts i e from failed contextualization Successful nesting by contrast manifests itself in a win win handshake between the observer participant and his chosen context The answer as to why a watched kettle never boils has repercussions in many a discipline It would be of immense interest to anyone who works in the fields of cognitive and complexity sciences psychology and the neurosciences social medicine philosophy and the arts

Physiology, Promiscuity, and Prophecy at the Millennium Bruce J. West, 1999 This book concerns the development of a theory of complex phenomena using such concepts as fractals chaos and fractional derivatives but most important the idea of an allometric control process is developed In summary the theory attempts to explain why the distribution in the intensity of wars is the same as the relative frequency of the number of words used in languages and the number of species evolved over time from one or a few remote ancestors The theory also describes the similarity in the variability of the number of births to teens in Texas to the number of sexual partners in homosexual liaisons The data in both of the aforementioned categories are shown to have long term memory and it is this memory that also gives rise to inverse power laws in such physiological phenomena as the interbeat interval distribution of the human heart the interstride interval distribution in the human gait and memory in DNA sequences

Handbook of Systems and Complexity in Health Joachim P Sturmborg, Carmel Martin, 2013-01-09 This book is an introduction to health care as a complex adaptive system a system that feeds back on itself The first section introduces systems and complexity theory from a science historical epistemological and technical perspective describing the principles and mathematics Subsequent sections build on the health applications of systems science theory from human physiology to medical decision making population health and health services research The aim of the book is to introduce and expand on important population health issues from a systems and complexity perspective highlight current research developments and their implications for health care delivery consider their ethical implications and to suggest directions for and potential pitfalls in the future

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Lure Of Modern Science Fractal Thinking Introduction

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