Book Review

Chaotic and Fractal Dynamics: An Introduction for Applied Scientists and Engineers, by Francis C. Moon. Published by Wiley-Interscience, New York, 1992, 508 pp.

When I was asked to prepare an introductory course on chaos for engineering students at the University of Alabama in Huntsville (UAH) in 1991. I reviewed all the textbooks and monograms available at the time. From my review, I concluded that Moon's early book. Chaotic Vibrations, was the best available book for this introductory course. However, because this earlier book had no problem sets, I found it difficult to use as a text. Therefore, I was very happy to see the addition of problem sets to his new book. The only criticism I have is that the author should add some analytical problems that help lead the student into understanding both the physics and mathematics of nonlinear dynamics. While the geometric, calculator, and computer problems that Moon has introduced into the present book are well done. I have found over the years that students tend to get more involved in working with the computer or the calculator rather than learning the physics or engineering. In addition, I would also recommend some worked examples and an appendix with the solutions/answers to part or all of the problems. I have found that the solution/answer appendix to be a valuable aid to the student and the instructor.

I particularly like his extensive bibliography, although I do believe that he needs to recognize some of the contributions made by foreign authors, especially those in the former Soviet Union who have made many valuable contributions to the science of nonlinear dynamics. In the literature I found several excellent examples of the application of nonlinear dynamics to the design of particle accelerators, microwave tubes, lasers, electronics, and so forth.

Besides the excellent job he does in relating

nonlinear dynamics to real engineering problems. I believe that his greatest contributions are his appendices. Because chaos is a young science, relatively speaking, and has a language of its own, the glossary of terms in Appendix A is extremely valuable to the novice. Appendices B and C give the student the opportunity to actually observe chaotic behavior and aid in his/ber understanding of the abstract concepts presented in the text. However, to make the book self-contained. I do believe that it would help to include some examples of computer codes that would allow the student to run some experiments at her/his leisure without having to spend considerable time trying to develop computer code.

If I taught an introductory course in chaos, I would probably use Moon's book in conjunction with the excellent book by Robert C. Hilborn, Chaos and Nonlinear Dynamics: An Introduction for Scientists and Engineers. I would use Hilborn's book to teach the fundamentals, and Moon's book to relate the concepts of nonlinear dynamics to engineering problems. In summary, I believe Moon's book to be one of the best books on the subject of chaos and nonlinear dynamics on the market today. I have already recommended this book to many colleagues interested in learning the science of chaos, as well as to various universities for use in engineering and science courses.

Reviewed by: Larry L. Altgilbers U.S. Army Advanced Technology Directorate Space and Strategic Defense Command and University of Alabama, Huntsville Huntsville, AL

<u>Chaotic And Fractal Dynamics Introduction For Applied</u> <u>Scientists And Engineers</u>

Ryan L. Harne, Kon-Well Wang

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Chaotic and Fractal Dynamics F. C. Moon, 1992 A revision of a professional text on the phenomena of chaotic vibrations in fluids and solids Major changes reflect the latest developments in this fast moving topic the introduction of problems to every chapter additional mathematics and applications more coverage of fractals numerous computer and physical experiments Contains eight pages of 4 color pictures Chaotic and Fractal Dynamics Francis C. Moon, 2008-11-20 A revision of a professional text on the phenomena of chaotic vibrations in fluids and solids Major changes reflect the latest developments in this fast moving topic the introduction of problems to every chapter additional mathematics and applications more coverage of fractals numerous computer and physical experiments Contains eight pages of 4 color pictures Chaotic Vibrations Francis C. Moon, 2020-06-03 Dynamics with Chaos and Fractals Marat Akhmet, Mehmet Onur Fen, Ejaily Milad Alejaily, 2020-01-01 The book is concerned with the concepts of chaos and fractals which are within the scopes of dynamical systems geometry measure theory topology and numerical analysis during the last several decades It is revealed that a special kind of Poisson stable point which we call an unpredictable point gives rise to the existence of chaos in the quasi minimal set This is the first time in the literature that the description of chaos is initiated from a single motion Chaos is now placed on the line of oscillations and therefore it is a subject of study in the framework of the theories of dynamical systems and differential equations as in this book The techniques introduced in the book make it possible to develop continuous and discrete dynamics which admit fractals as points of trajectories as well as orbits themselves To provide strong arguments for the genericity of chaos in the real and abstract universe the concept of abstract similarity is suggested **Bistable Structural Dynamics** Ryan L. Harne, Kon-Well Wang, 2017-01-06 This book formulates and consolidates a coherent understanding of how harnessing the dynamics of bistable structures may enhance the technical fields of vibration control energy harvesting and sensing Theoretical rigor and practical experimental insights are provided in numerous case studies The three fields have received significant research interest in recent years particularly in regards to the advantageous exploitation of nonlinearities Harnessing the dynamics of bistable structures that is systems with two configurations of static equilibria is a popular subset of the recent efforts This book provides a timely consolidation of the advancements that are relevant to a large body of active researchers and engineers in these areas of understanding and leveraging nonlinearities for engineering applications Coverage includes Provides a one source reference on how bistable system dynamics may enhance the aims of vibration control energy harvesting and sensing with a breadth of case studies Includes details for comprehensive methods of analysis numerical simulation and experimentation that are widely useful in the assessment of the dynamics of bistable structures Details approaches to evaluate by analytical and numerical analysis and experiment the influences of harmonic and random excitations multiple degrees of freedom and electromechanical coupling towards tailoring the underlying bistable system dynamics Establishes how intelligently utilizing bistability could enable technology advances that

would be useful in various industries such as automotive engineering aerospace systems microsystems and microelectronics and manufacturing Nonlinear Dynamics and Chaos Steven H Strogatz, 2024-01-16 The goal of this third edition of Nonlinear Dynamics and Chaos With Applications to Physics Biology Chemistry and Engineering is the same as previous editions to provide a good foundation and a joyful experience for anyone who d like to learn about nonlinear dynamics and chaos from an applied perspective The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors The prerequisites are comfort with multivariable calculus and linear algebra as well as a first course in physics Ideas from probability complex analysis and Fourier analysis are invoked but they re either worked out from scratch or can be safely skipped or accepted on faith Changes to this edition include substantial exercises about conceptual models of climate change an updated treatment of the SIR model of epidemics and amendments based on recent research about the Selkov model of oscillatory glycolysis Equations diagrams and every word has been reconsidered and often revised There are also about 50 new references many of them from the recent literature The most notable change is a new chapter Chapter 13 is about the Kuramoto model The Kuramoto model is an icon of nonlinear dynamics Introduced in 1975 by the Japanese physicist Yoshiki Kuramoto his elegant model is one of the rare examples of a high dimensional nonlinear system that can be solved by elementary means Students and teachers have embraced the book in the past its general approach and framework continue to be sound The Art of Modeling Mechanical Systems Friedrich Pfeiffer, Hartmut Bremer, 2016-09-14 The papers in this volume present rules for mechanical models in a general systematic way always in combination with small and large examples many from industry illustrating the most important features of modeling The best way to reach a good solution is discussed The papers address researchers and engineers from academia and from industry doctoral students and postdocs working in the fields of mechanical civil and electrical engineering as well as in fields like applied physics or applied mathematics Desktop Chaotic Systems: Intuition and Visualization Michelle M. Bright, 1993 Complex Dynamics and Morphogenesis Chaougi Misbah, 2016-12-01 This book offers an introduction to the physics of nonlinear phenomena through two complementary approaches bifurcation theory and catastrophe theory Readers will be gradually introduced to the language and formalisms of nonlinear sciences which constitute the framework to describe complex systems The difficulty with complex systems is that their evolution cannot be fully predicted because of the interdependence and interactions between their different components Starting with simple examples and working toward an increasing level of universalization the work explores diverse scenarios of bifurcations and elementary catastrophes which characterize the qualitative behavior of nonlinear systems. The study of temporal evolution is undertaken using the equations that characterize stationary or oscillatory solutions while spatial analysis introduces the

fascinating problem of morphogenesis Accessible to undergraduate university students in any discipline concerned with nonlinear phenomena physics mathematics chemistry geology economy etc this work provides a wealth of information for teachers and researchers in these various fields Chaougi Misbah is a senior researcher at the CNRS National Centre of Scientific Research in France His work spans from pattern formation in nonlinear science to complex fluids and biophysics In 2002 he received a major award from the French Academy of Science for his achievements and in 2003 Grenoble University honoured him with a gold medal Leader of a group of around 40 scientists he is a member of the editorial board of the French Academy of Science since 2013 and also holds numerous national and international responsibilities Computing and Fractal Theory for Intelligent Manufacturing Oscar Castillo, Patricia Melin, 2012-08-11 We describe in this book new methods for intelligent manufacturing using soft computing techniques and fractal theory Soft Computing SC consists of several computing paradigms including fuzzy logic neural networks and genetic algorithms which can be used to produce powerful hybrid intelligent systems Fractal theory provides us with the mathematical tools to understand the geometrical complexity of natural objects and can be used for identification and modeling purposes Combining SC techniques with fractal theory we can take advantage of the intelligence provided by the computer methods and also take advantage of the descriptive power of the fractal mathematical tools Industrial manufacturing systems can be considered as non linear dynamical systems and as a consequence can have highly complex dynamic behaviors For this reason the need for computational intelligence in these manufacturing systems has now been well recognized We consider in this book the concept of intelligent manufacturing as the application of soft computing techniques and fractal theory for achieving the goals of manufacturing which are production planning and control monitoring and diagnosis of faults and automated quality control As a prelude we provide a brief overview of the existing methodologies in Soft Computing We then describe our own approach in dealing with the problems in achieving intelligent manufacturing Our particular point of view is that to really achieve intelligent manufacturing in real world applications we need to use SC techniques and fractal theory The SAGE Handbook of Spatial Analysis A Stewart Fotheringham, Peter A Rogerson, 2008-12-22 The widespread use of Geographical Information Systems GIS has significantly increased the demand for knowledge about spatial analytical techniques across a range of disciplines As growing numbers of researchers realise they are dealing with spatial data the demand for specialised statistical and mathematical methods designed to deal with spatial data is undergoing a rapid increase Responding to this demand The Handbook of Spatial Analysis is a comprehensive and authoritative discussion of issues and techniques in the field of Spatial Data Analysis Its principal focus is on why the analysis of spatial data needs separate treatment the main areas of spatial analysis the key debates within spatial analysis examples of the application of various spatial analytical techniques problems in spatial analysis areas for future research Aimed at an international audience of academics The Handbook of Spatial Analysis will also prove essential to graduate level students and researchers in government agencies

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Introduction to Experimental Nonlinear Dynamics Lawrence N. Virgin, 2000-03-28 Nonlinear behavior can be found in such highly disparate areas as population biology and aircraft wing flutter Largely because of this extensive reach nonlinear dynamics and chaos have become very active fields of study and research This book uses an extended case study an experiment in mechanical vibration to introduce and explore the subject of nonlinear behavior and chaos Beginning with a review of basic principles the text then describes a cart on a track oscillator and shows what happens when it is gradually subjected to greater excitation thereby encountering the full spectrum of nonlinear behavior from simple free decay to chaos Experimental mechanical vibration is the unifying theme as the narrative evolves from a local linear largely analytical foundation toward the rich and often unpredictable world of nonlinearity Advanced undergraduate and graduate students as well as practising engineers will find this book a lively accessible introduction to the complex world of nonlinear dynamics

An Introduction to Dynamical Systems and Chaos G. C. Layek, 2024-02-23 This book discusses continuous and discrete nonlinear systems in systematic and sequential approaches The unique feature of the book is its mathematical theories on flow bifurcations nonlinear oscillations Lie symmetry analysis of nonlinear systems chaos theory routes to chaos and

multistable coexisting attractors. The logically structured content and sequential orientation provide readers with a global overview of the topic A systematic mathematical approach has been adopted featuring a multitude of detailed worked out examples alongside comprehensive exercises The book is useful for courses in dynamical systems and chaos and nonlinear dynamics for advanced undergraduate graduate and research students in mathematics physics and engineering The second edition of the book is thoroughly revised and includes several new topics center manifold reduction quasi periodic oscillations Bogdanov Takens periodbubbling and Neimark Sacker bifurcations and dynamics on circle The organized structures in bi parameter plane for transitional and chaotic regimes are new active research interest and explored thoroughly The connections of complex chaotic attractors with fractals cascades are explored in many physical systems Chaotic attractors may attain multiple scaling factors and show scale invariance property Finally the ideas of multifractals and global spectrum for quantifying inhomogeneous chaotic attractors are discussed Reliability and Statistics in Transportation and **Communication** Igor Kabashkin, Irina Yatskiv, Olegas Prentkovskis, 2020-03-28 This book reports on cutting edge theories and methods for analyzing complex systems such as transportation and communication networks and discusses multi disciplinary approaches to dependability problems encountered when dealing with complex systems in practice The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication RelStat which took place in Riga Latvia on October 16 19 2019 It spans a broad spectrum of topics from mathematical models and design methodologies to software engineering data security and financial issues as well as practical problems in technical systems such as transportation and telecommunications and in engineering education

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