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Colin Sparrow

The Lorenz Equations: Bifurcations, Chaos, and Strange Attractors



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Lorenz Equations Bifurcations Chaos And Strange Attractors

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Providing readers with a solid basis in dynamical systems theory as well as explicit procedures for application of general mathematical results to particular problems the focus here is on efficient numerical implementations of the developed techniques The book is designed for advanced undergraduates or graduates in applied mathematics as well as for Ph D students and researchers in physics biology engineering and economics who use dynamical systems as model tools in their studies A moderate mathematical background is assumed and whenever possible only elementary mathematical tools are used This new edition preserves the structure of the first while updating the context to incorporate recent theoretical developments in particular new and improved numerical methods for bifurcation analysis

Imperfect Bifurcation in Structures and Materials Kiyohiro Ikeda,Kazuo Murota,2013-03-09 Many physical systems lose or gain stability and pattern through bifurcation behavior Extensive research of this behavior is carried out in many fields of science and engineering The study of dynamic bifurcation behavior for example has made clear the mechanism of dynamic instability and chaos The group theoretic bifurcation theory is an established means to deal with the formation and selection of patterns in association with symmetry breaking bifurcation Since all physical systems are imperfect in that they inevitably involve some initial imperfections the study of imperfect bifurcation of imperfect systems has drawn a keen mathematical interest to yield a series of important results such as the universal unfolding In structural mechanics bifurcation behavior has been studied to model the buckling and failure of structural systems The sharp reduction of the strength of structural systems by initial imperfections is formulated as imperfection sensitivity laws A series of statistical studies has been conducted to make clear the dependence of the strength of structures on the statistical variation of initial imperfections A difficulty in these studies arises from the presence of a large number of initial imperfections At this state most of these studies are carried out based on the Monte Carlo simulation for a number of initial imperfections or on an imperfection sensitivity law against a single initial imperfection

Chaos and Fractals Heinz-Otto Peitgen,Hartmut Jürgens,Dietmar Saupe,2013-06-29 For almost 15 years chaos and fractals have been riding a wave that has enveloped many areas of mathematics and the natural sciences in its power creativity and expanse Traveling far beyond the traditional bounds of mathematics and science to the distant shores of popular culture this wave captures the attention and enthusiasm of a worldwide audience The fourteen chapters of this book cover the central ideas and concepts of chaos and fractals as well as many related topics including the Mandelbrot Set Julia Sets Cellular Automata L systems Percolation and Strange Attractors Each chapter is closed by a Program of the Chapter which provides computer code for a central experiment Two appendices complement the book The first by Yuval Fisher discusses the details and ideas of fractal images and compression the second by Carl J G Evertsz and Benoit Mandelbrot introduces the foundations and implications of multifractals

Elements of Applied Bifurcation Theory Yuri A. Kuznetsov,2013-03-09 During the last few years several good textbooks on nonlinear dynamics have appeared for graduate students in applied mathematics It seems however that the majority of such books are

still too theoretically oriented and leave many practical issues unclear for people intending to apply the theory to particular research problems. This book is designed for advanced undergraduate or graduate students in mathematics who will participate in applied research. It is also addressed to professional researchers in physics, biology, engineering, and economics who use dynamical systems as modeling tools in their studies. Therefore, only a moderate mathematical background in geometry, linear algebra, analysis, and differential equations is required. A brief summary of general mathematical terms and results that are assumed to be known in the main text appears at the end of the book. Whenever possible, only elementary mathematical tools are used. For example, we do not try to present normal form theory in full generality; instead, developing only the portion of the technique sufficient for our purposes. The book aims to provide the student or researcher with both a solid basis in dynamical systems theory and the necessary understanding of the approaches, methods, results, and terminology used in the modern applied mathematics literature. A key theme is that of topological equivalence and codimension, or what one may expect to occur in the dynamics with a given number of parameters allowed to vary.

Bifurcation Theory Hansjörg Kielhöfer, 2006-04-10. In the past three decades, bifurcation theory has matured into a well-established and vibrant branch of mathematics. This book gives a unified presentation in an abstract setting of the main theorems in bifurcation theory as well as more recent and lesser-known results. It covers both the local and global theory of one-parameter bifurcations for operators acting in infinite-dimensional Banach spaces and shows how to apply the theory to problems involving partial differential equations. In addition to existence, qualitative properties such as stability and nodal structure of bifurcating solutions are treated in depth. This volume will serve as an important reference for mathematicians, physicists, and theoretically inclined engineers working in bifurcation theory and its applications to partial differential equations.

Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields John Guckenheimer, Philip Holmes, 2013-11-21. From the reviews: This book is concerned with the application of methods from dynamical systems and bifurcation theories to the study of nonlinear oscillations. Chapter 1 provides a review of basic results in the theory of dynamical systems covering both ordinary differential equations and discrete mappings. Chapter 2 presents 4 examples from nonlinear oscillations. Chapter 3 contains a discussion of the methods of local bifurcation theory for flows and maps, including center manifolds and normal forms. Chapter 4 develops analytical methods of averaging and perturbation theory. Close analysis of geometrically defined two-dimensional maps with complicated invariant sets is discussed in chapter 5. Chapter 6 covers global homoclinic and heteroclinic bifurcations. The final chapter shows how the global bifurcations reappear in degenerate local bifurcations and ends with several more models of physical problems which display these behaviors.

Book Review: Engineering Societies Library New York 1. An attempt to make research tools concerning strange attractors developed in the last 20 years available to applied scientists and to make clear to research mathematicians the needs in applied works. Emphasis on geometric and topological solutions of differential equations. Applications mainly drawn from

nonlinear oscillations American Mathematical Monthly 2

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