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VOLUME 3

TOPICS IN
**BIFURCATION
THEORY**
AND APPLICATIONS

Second Edition

Gérard Iooss and Moritz Adelmeier

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Topics In Bifurcation Theory And Applications

Michael Brown



Topics In Bifurcation Theory And Applications:

Topics In Bifurcation Theory And Applications (2nd Edition) Moritz Adelmeyer, Gerard Iooss, 1999-01-22 This textbook presents the most efficient analytical techniques in the local bifurcation theory of vector fields It is centered on the theory of normal forms and its applications including interaction with symmetries The first part of the book reviews the center manifold reduction and introduces normal forms with complete proofs Basic bifurcations are studied together with bifurcations in the presence of symmetries Special attention is given to examples with reversible vector fields including the physical example given by the water waves In this second edition many problems with detailed solutions are added at the end of the first part some systems being in infinite dimensions The second part deals with the Couette Taylor hydrodynamical stability problem between concentric rotating cylinders The spatial structure of various steady or unsteady solutions results directly from the analysis of the reduced system on a center manifold In this part we also study bifurcations simple here from group orbits of solutions in an elementary way avoiding heavy algebra The third part analyzes bifurcations from time periodic solutions of autonomous vector fields A normal form theory is developed covering all cases and emphasizing a partial Floquet reduction theory which is applicable in infinite dimensions Studies of period doubling as well as Arnold's resonance tongues are included in this part

Topics in Bifurcation Theory and Applications Gérard Iooss, Moritz Adelmeyer, 1992

topics in bifurcation theory and applications second edition. , **Theory and Applications of Viscous Fluid Flows**

Radyadour Kh. Zeytounian, 2013-06-29 This book is the natural sequel to the study of nonviscous fluid flows presented in our recent book entitled Theory and Applications of Nonviscous Fluid Flows and published in 2002 by the Physics Editorial Department of Springer Verlag ISBN 3 540 41412 6 Springer Verlag Berlin Heidelberg New York The physical concept of viscosity for so called real fluids is associated both incompressible and compressible fluids Consequently we have with a vast field of theoretical study and applications from which any subsection could have itself provided an area for a single book It was however decided to attempt a global study so that each chapter serves as an introduction to more specialized study and the book as a whole presents a necessary broad foundation for further study in depth Consequently this volume contains many more pages than my preceding book devoted to nonviscous fluid flows and a large number 80 of figures There are three main models for the study of viscous fluid flows First the model linked with viscous incompressible fluid flows the so called dynamic Navier model governing linearly viscous divergenceless and homogeneous fluid flows The second is the so called Navier Stokes model NS which is linked to compressible linearly viscous and isentropic equations for a polytropic viscous gas The third is the so called Navier Stokes Fourier model NSF that governs the motion of a compressible linearly viscous heat conducting gas

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 and Applications Tian Ma, Shouhong Wang, 2005 This book covers comprehensive bifurcation theory and its applications to dynamical systems and partial differential equations PDEs from science and engineering including in particular PDEs from physics chemistry biology and hydrodynamics The book first introduces bifurcation theories recently developed by the authors on steady state bifurcation for a class of nonlinear problems with even order nondegenerate nonlinearities regardless of the multiplicity of the eigenvalues and on attractor bifurcations for nonlinear evolution equations a new notion of bifurcation With this new notion of bifurcation many longstanding bifurcation problems in science and engineering are becoming accessible and are treated in the second part of the book In particular applications are covered for a variety of PDEs from science and engineering including the Kuramoto-Oscillator-Sivashinsky equation the Cahn-Hilliard equation the Ginzburg-Landau equation reaction diffusion equations in biology and chemistry the Benard convection problem and the Taylor problem The applications provide on the one hand general recipes for other applications of the theory addressed in this book and on the other full classifications of the bifurcated attractor and the global attractor as the control parameters cross certain critical values dictated usually by the eigenvalues of the linearized problems It is expected that the book will greatly advance the study of nonlinear dynamics for many problems in science and engineering

Perspectives of Nonlinear Dynamics: Volume 2 E. Atlee Jackson, 1989 The dynamics of physical chemical biological or fluid systems generally must be described by nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various complementary methods and viewpoints are of crucial importance The presentation and style is intended to stimulate the reader's imagination to apply these methods to a host of problems and situations

Perspectives of Nonlinear Dynamics: Volume 1 E. Atlee Jackson, 1989 The dynamics of physical chemical biological or fluid systems generally must be described by nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various

complementary methods and viewpoints are of crucial importance In this book the perspectives generated by analytical topological and computational methods and interplays between them are developed in a variety of contexts This book is a comprehensive introduction to this field suited to a broad readership and reflecting a wide range of applications Some of the concepts considered are topological equivalence embeddings dimensions and fractals Poincaré maps and map dynamics empirical computational sciences vis vis mathematics Ulam's synergetics Turing's instability and dissipative structures chaos dynamic entropies Lorenz and Rossler models predator-prey and replicator models FPU and KAM phenomena solitons and nonsolitons coupled maps and pattern dynamics cellular automata

Dynamical Systems V V.I. Arnold, V.S.

Afrajmovich, Yu.S. Il'yashenko, L.P. Shil'nikov, 1999-05-20 Bifurcation theory and catastrophe theory are two well known areas within the field of dynamical systems Both are studies of smooth systems focusing on properties that seem to be manifestly non smooth Bifurcation theory is concerned with the sudden changes that occur in a system when one or more parameters are varied Examples of such are familiar to students of differential equations from phase portraits Understanding the bifurcations of the differential equations that describe real physical systems provides important information about the behavior of the systems Catastrophe theory became quite famous during the 1970's mostly because of the sensation caused by the usually less than rigorous applications of its principal ideas to hot topics such as the characterization of personalities and the difference between a genius and a maniac Catastrophe theory is accurately described as singularity theory and its genuine applications The authors of this book previously published as Volume 5 of the Encyclopaedia have given a masterly exposition of these two theories with penetrating insight

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Il'yashenko, L.P. Shil'nikov, 1994-06-06 Bifurcation theory and catastrophe theory are two well known areas within the field of dynamical systems Both are studies of smooth systems focusing on properties that seem to be manifestly non smooth Bifurcation theory is concerned with the sudden changes that occur in a system when one or more parameters are varied Examples of such are familiar to students of differential equations from phase portraits Understanding the bifurcations of the differential equations that describe real physical systems provides important information about the behavior of the systems Catastrophe theory became quite famous during the 1970's mostly because of the sensation caused by the usually less than rigorous applications of its principal ideas to hot topics such as the characterization of personalities and the difference between a genius and a maniac Catastrophe theory is accurately described as singularity theory and its genuine applications The authors of this book previously published as Volume 5 of the Encyclopaedia have given a masterly exposition of these two theories with penetrating insight

Bifurcation Theory with Applications Terry E. Moschandreou, 2024-12-11

Bifurcation Theory with Applications is a collection of chapters that describe the theory and application of nonlinear dynamics to a wide variety of problems in physics and engineering Each chapter is self contained and includes an introduction main contributions and details of up to date theoretical computational and experimental results The book

examines various practical systems including models of target detection in cells through the analysis of bio nanomachine attractant and repellent concentrations It addresses the quasistatic evolution of anelastic structures explores the generation of triangular patterns through anisotropic diffusion and discusses the stabilization of time delay distributed bilinear systems in spatial domains Topics also include optimal control challenges in bilinear systems with unbounded and bounded control sets forward bifurcation in hepatitis B virus infection models and the bifurcation of hematological stem cells with feedback control in a biological context The book is designed for theorists applied mathematicians and engineers across diverse scientific disciplines serving as a valuable resource for anyone interested in bifurcation theory s wide ranging applications

Invariant Theory F. Gherardelli, 2006-11-15

[Theory and Practice of Finite Elements](#) Alexandre Ern, Jean-Luc

Guermond, 2013-03-09 The origins of the finite element method can be traced back to the 1950s when engineers started to solve numerically structural mechanics problems in aeronautics Since then the field of applications has widened steadily and nowadays encompasses nonlinear solid mechanics fluid structure interactions flows in industrial or geophysical settings multicomponent reactive turbulent flows mass transfer in porous media viscoelastic flows in medical sciences electromagnetism wave scattering problems and option pricing to cite a few examples Numerous commercial and academic codes based on the finite element method have been developed over the years The method has been so successful to solve Partial Differential Equations PDEs that the term Finite Element Method nowadays refers not only to the mere interpolation technique it is but also to a fuzzy set of PDEs and approximation techniques The efficiency of the finite element method relies on two distinct ingredients the interpolation capability of finite elements referred to as the approximability property in this book and the ability of the user to approximate his model mostly a set of PDEs in a proper mathematical setting thus guaranteeing continuity stability and consistency properties Experience shows that failure to produce an approximate solution with an acceptable accuracy is almost invariably linked to departure from the mathematical foundations Typical examples include non physical oscillations spurious modes and locking effects In most cases a remedy can be designed if the mathematical framework is properly set up *Asymptotic Analysis from Theory to Application* Ferdinand Verhulst, 1979

Mathematical Reviews, 1999

Bifurcation Theory, Mechanics and Physics C.P. Bruter, A. Aragnol, A.

Lichnorowicz, 2001-11-30 This volume presents the proceedings of a colloquium inspired by the former President of the French Mathematical Society Michel Herve The aim was to promote the development of mathematics through applications Since the ancient supports the new it seemed appropriate to center the theoretical conferences on new subjects Since the world is movement and creation the theoretical conferences were planned on mechanics movement and bifurcation theory creation Five aspects of mechanics were to be presented but unfortunately it has not been possible to include the statistical mechanics aspect So that only four aspects are presented Classical mechanics Hamiltonian Lagrangian Poisson W N Tulczyjew J E White C M Marle Quantum mechanics in particular the passage from the classical to the quantum approach

and the problem of finding the explicit solution of Schrodinger's equation M Cahen and S Gutt J Leray Fluid mechanics meaning problems involving partial differential equations One of the speakers we hoped would attend the conference was in Japan at the time however his lecture is presented in these proceedings J F Pommaret H I I Shi Mathematical information theory S Guisll Traditional physical arguments are characterized by their great homogeneity and mathematically expressed by the compactness property In such cases there is a kind of duality between locality and globality which allows the use of the infinitesimal in global considerations

Inverse Acoustic and Electromagnetic Scattering Theory David Colton, Rainer Kress, 2013-04-17 It has now been almost ten years since our first book on scattering theory appeared 32 At that time we claimed that in recent years the development of integral equation methods for the direct scattering problem seems to be nearing completion whereas the use of such an approach to study the inverse scattering problem has progressed to an extent that a state of the art survey appears highly desirable Since we wrote these words the inverse scattering problem for acoustic and electromagnetic waves has grown from being a few theoretical considerations with limited numerical implementations to a well developed mathematical theory with tested numerical algorithms This maturing of the field of inverse scattering theory has been based on the realization that such problems are in general not only nonlinear but also improperly posed in the sense that the solution does not depend continuously on the measured data This was emphasized in 32 and treated with the ideas and tools available at that time Now almost ten years later these initial ideas have developed to the extent that a monograph summarizing the mathematical basis of the field seems appropriate This book is our attempt to write such a monograph The inverse scattering problem for acoustic and electromagnetic waves can broadly be divided into two classes the inverse obstacle problem and the inverse medium problem

Notices of the American Mathematical Society American Mathematical Society, 1992 **Choice**, 1996 Multiscale Analysis of Complex Time Series Jianbo Gao, Yinhe Cao, Wen-wen Tung, Jing Hu, 2007-09-24 The only integrative approach to chaos and random fractal theory Chaos and random fractal theory are two of the most important theories developed for data analysis Until now there has been no single book that encompasses all of the basic concepts necessary for researchers to fully understand the ever expanding literature and apply novel methods to effectively solve their signal processing problems Multiscale Analysis of Complex Time Series fills this pressing need by presenting chaos and random fractal theory in a unified manner Adopting a data driven approach the book covers DNA sequence analysis EEG analysis Heart rate variability analysis Neural information processing Network traffic modeling Economic time series analysis And more Additionally the book illustrates almost every concept presented through applications and a dedicated Web site is available with source codes written in various languages including Java Fortran C and MATLAB together with some simulated and experimental data The only modern treatment of signal processing with chaos and random fractals unified this is an essential book for researchers and graduate students in electrical engineering computer science bioengineering and many other fields

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