J. E. Marsden
M. McCracken

The Hopf Bifurcation and Its Applications

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Eckehard Schöll,Sabine H. L. Klapp,Philipp Hövel

The Hopf Bifurcation And Its Applications:

The Hopf Bifurcation and Its Applications J. E. Marsden,M. McCracken,2012-12-06 The goal of these notes is to give a reasonahly com plete although not exhaustive discussion of what is commonly referred to as the Hopf bifurcation with applications to spe cific problems including stability calculations Historical ly the subject had its origins in the works of Poincare 1 around 1892 and was extensively discussed by Andronov and Witt 1 and their co workers starting around 1930 Hopf s basic paper 1 appeared in 1942 Although the term Poincare Andronov Hopf bifurcation is more accurate sometimes Friedrichs is also included the name Hopf Bifurcation seems more common so we have used it Hopf s crucial contribution was the extension from two dimensions to higher dimensions The principal technique employed in the body of the text is that of invariant manifolds The method of Ruelle Takens 1 is followed with details examples and proofs added Several parts of the exposition in the main text come from papers of P Chernoff J Dorroh O Lanford and F Weissler to whom we are grateful The general method of invariant manifolds is common in dynamical systems and in ordinary differential equations see for example Hale 1 2 and Hartman 1 Of course other methods are also available In an attempt to keep the picture balanced we have included samples of alternative approaches Specifically we have included a translation by L Howard and N Kopell of Hopf s original and generally unavailable paper **The Hopf Bifurcation and Its Applications** J. E Marsden,M. McCracken,1976-08-17 **The Hopf Bifurcation and Its Applications** Jerrold E. Marsden,Marjorie McCracken,1976 The goal of these notes is to give a reasonahly com plete although not exhaustive discussion of what is commonly referred to as the Hopf bifurcation with applications to spe cific problems including stability calculations Historical ly the subject had its origins in the works of Poincare 1 around 1892 and was extensively discussed by Andronov and Witt 1 and their co workers starting around 1930 Hopf s basic paper 1 appeared in 1942 Although the term Poincare Andronov Hopf bifurcation is more accurate sometimes Friedrichs is also included the name Hopf Bifurcation seems more common so we have used it Hopf s crucial contribution was the extension from two dimensions to higher dimensions The principal technique employed in the body of the text is that of invariant manifolds The method of Ruelle Takens 1 is followed with details examples and proofs added Several parts of the exposition in the main text come from papers of P Chernoff J Dorroh O Lanford and F Weissler to whom we are grateful The general method of invariant manifolds is common in dynamical systems and in ordinary differential equations see for example Hale 1 2 and Hartman 1 Of course other methods are also available In an attempt to keep the picture balanced we have included samples of alternative approaches Specifically we have included a translation by L Howard and N Kopell of Hopf s original and generally unavailable paper The Hopf Bifurcation Theorem and Its Applications to Nonlinear Oscillations in Circuits and Systems A. I. Mees,Leon O. Chua,1977 Nonlinear Functional Analysis and its Applications E. Zeidler,2013-12-01 The main concern in all scientific work must be the human being himsel This one should never forget among all those diagrams and equations Albert Einstein This volume is part of a comprehensive

presentation of nonlinear functional analysis the basic content of which has been outlined in the Preface of Part I A Table of Contents for all five volumes may also be found in Part I The Part IV and the following Part V contain applications to mathematical present physics Our goals are the following i A detailed motivation of the basic equations in important disciplines of theoretical physics ii A discussion of particular problems which have played a significant role in the development of physics and through which important mathe matical and physical insight may be gained iii A combination of classical and modern ideas iv An attempt to build a bridge between the language and thoughts of physicists and mathematicians Weshall always try to advance as soon as possible to theheart ofthe problern under consideration and to concentrate on the basic ideas **Nonlinear Functional Analysis and Its Applications** S.P. Singh,2012-12-06 A NATO Advanced Study Institute on Nonlinear Functional Analysis and Its Applications was held in Hotel Villa del Mare Maratea It a1y during April 22 May 3 1985 This volume consists of the Proceedings of the Institute These Proceedings include the invited lectures and contributed papers given during the Institute The papers have been refereed The aim of these lectures was to bring together recent and up to date development of the subject and to give directions for future research The main topics covered include degree and generalized degree theory results related to Hamiltonian Systems Fixed Point theory linear and nonlinear Differential and Partial Differential Equations Theory of Nielsen Numbers and applications to Dynamical Systems Bifurcation Theory Hamiltonian Systems Minimax Theory Heat Equations Pendulum Equation Nonlinear Boundary Value Problems and Dirichlet and Neumann problems for elliptic equations and the periodic Dirichlet problem for semilinear beam equations I express my sincere thanks to Professors F E Browder R Conti A Do1d D E Edmunds and J Mawhin members of the Advisory Committee **Nonlinear Analysis and its Applications to Differential Equations** M.R. Grossinho,M. Ramos,C. Rebelo,L. Sanchez,2000-11-29 In this book we present a significant part ofthe material given in an autumn school on Nonlinear Analysis and Differential Equations held at the CMAF Centro de Matematica e Aplica *Advances on Mathematical Modeling and Optimization with Its Applications* Gunjan Mukherjee,Biswadip Basu Mallik,Rahul Kar,Aryan Chaudhary,2024-03-28 Advances on Mathematical Modeling and Optimization with Its Applications discusses optimization equality and inequality constraints and their application in the versatile optimizing domain It further covers non linear optimization methods such as global optimization and gradient based non linear optimization and their applications Discusses important topics including multi component differential equations geometric partial differential equations and computational neural systems Covers linear integer programming and network design problems along with an application of the mixed integer problems Discusses constrained and unconstrained optimization equality and inequality constraints and their application in the versatile optimizing domain Elucidates the application of statistical models probability models and transfer learning concepts Showcases the importance of multi attribute decision modeling in the domain of image processing and soft computing The text is primarily for senior undergraduate and graduate students and academic researchers in the fields of

mathematics statistics and computer science   *Generic Hopf Bifurcation in a Class of Integro-differential Equations* University of Minnesota. Institute for Mathematics and Its Applications,H. W. Stech,1990   Higher Order Dynamic Mode Decomposition and Its Applications Jose Manuel Vega,Soledad Le Clainche,2020-09-22 Higher Order Dynamic Mode Decomposition and Its Applications provides detailed background theory as well as several fully explained applications from a range of industrial contexts to help readers understand and use this innovative algorithm Data driven modelling of complex systems is a rapidly evolving field which has applications in domains including engineering medical biological and physical sciences where it is providing ground breaking insights into complex systems that exhibit rich multi scale phenomena in both time and space Starting with an introductory summary of established order reduction techniques like POD DEIM Koopman and DMD this book proceeds to provide a detailed explanation of higher order DMD and to explain its advantages over other methods Technical details of how the HODMD can be applied to a range of industrial problems will help the reader decide how to use the method in the most appropriate way along with example MATLAB codes and advice on how to analyse and present results Includes instructions for the implementation of the HODMD MATLAB codes and extended discussions of the algorithm Includes descriptions of other order reduction techniques and compares their strengths and weaknesses Provides examples of applications involving complex flow fields in contexts including aerospace engineering geophysical flows and wind turbine design   **Report TW.** Mathematisch Centrum (Amsterdam, Netherlands). Afdeling voor Toegepaste Wiskunde,1982   **SIAM Journal on Applied Mathematics** ,1979   **Control of Self-Organizing Nonlinear Systems** Eckehard Schöll,Sabine H. L. Klapp,Philipp Hövel,2016-01-22 The book summarizes the state of the art of research on control of self organizing nonlinear systems with contributions from leading international experts in the field The first focus concerns recent methodological developments including control of networks and of noisy and time delayed systems As a second focus the book features emerging concepts of application including control of quantum systems soft condensed matter and biological systems Special topics reflecting the active research in the field are the analysis and control of chimera states in classical networks and in quantum systems the mathematical treatment of multiscale systems the control of colloidal and quantum transport the control of epidemics and of neural network dynamics   **Fundamental Problems in Statistical Mechanics V** E. G. D. Cohen,1980   Theoretical and Mathematical Physics ,1985   *Rhythms in Biology and Other Fields of Application* Société mathématique de France,Société mathématique de France. Journées,1983-06 This volume contains most of the talks presented at the Journ es de la Soci t Math ma ique de France entitled Rhythms in Biology and other fields of application Determi nistic and Stochastic Approaches held in Luminy from the 14th th to the 18 of September 1981 The aim of our meeting was to bring together scien tists from different disciplines to discuss a common topic and to stimulate exchanges between participants We hope that this goal was reached This volume is divided into four chapters In each one the papers are arranged in alphabetical order by first author Chapters one and two contain papers devoted to descrip tion or

modelling of rhythmic biolog ical phenomena Chapters three and four deal with models for the study of rhythms invol ving the use of deterministic or stochastic tools capable of fruitful transfer to Biology We are pleased that these Proceedings appear in a series which constitutes an interface between Biologists and Mathema ticians We are indebted to all who provided us with their help particularly the Centre International de Rencontres Math matiques C I R M at Luminy the Soci t Mathematique de France S M F the Delegation aux Relations Universitaires Internationales D R U I and the Laboratoire d Informatique et de Math matiques Appliquees de Grenoble I M A G Special thanks are due to Mrs A Litman for her dedi cation and her efficiency throughout the organization of this meeting G enobie Vecembe 1982 *Journal of Mathematical Biology* ,1990 **Miniconference on Analysis and Applications** Gaven Martin,Bevan Thompson,1994 **Conservative Systems and Quantum Chaos** Larry Meredith Bates,David Lawrence Rod,1996 This volume presents new research in classical Hamiltonian and quantum systems from the Workshop on Conservative Systems and Quantum Chaos held during The Fields Institute Program Year on Dynamical Systems and Bifurcation Theory in October 1992 Waterloo Canada The workshop was organized so that there were presentations that formed a bridge between classical and quantum mechanical systems Four of these papers appear in this collection with the remaining six papers concentrating on classical Hamiltonian dynamics Time-to-build and Cycles Patrick K. Asea,Paul J. Zak,1997 We analyze the dynamics of a simple growth model in which production occurs with a delay while new capital is installed time to build The time to build technology is shown to yield a system of functional delay differential equations with a unique steady state We demonstrate that the steady state though typically a saddle may exhibit Hopf cycles on a measurable set of the parameter space Furthermore the optimal path to the steady state is oscillatory A counter example to the claim that intrinsically oscillatory on the central technical apparatus the mathematics of functional differential equations

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