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# **The Hopf Bifurcation and Its Applications**



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# The Hopf Bifurcation And Its Applications

**Jerrold E. Marsden, Marjorie McCracken**



## **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 reasonably complete although not exhaustive discussion of what is commonly referred to as the Hopf bifurcation with applications to specific problems including stability calculations. Historically the subject had its origins in the works of Poincaré around 1892 and was extensively discussed by Andronov and Witt and their co-workers starting around 1930. Hopf's basic paper appeared in 1942. Although the term Poincaré-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 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 reasonably complete although not exhaustive discussion of what is commonly referred to as the Hopf bifurcation with applications to specific problems including stability calculations. Historically the subject had its origins in the works of Poincaré around 1892 and was extensively discussed by Andronov and Witt and their co-workers starting around 1930. Hopf's basic paper appeared in 1942. Although the term Poincaré-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 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

**Theory and Applications of Hopf Bifurcation** B. D. Hassard, N. D. Kazarinoff, Yieh-Hei Wan, 1981-02-27 This text will be of value to all those interested in and studying the subject in the mathematical, natural and engineering sciences. **Bifurcation Theory and**

**Applications** L. Salvadori, 2006-12-08      **Computational Science and Its Applications - ICCSA 2016** Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Ana Maria A.C. Rocha, Carmelo M. Torre, David Taniar, Bernady O. Apduhan, Elena Stankova, Shangguang Wang, 2016-07-01 The five volume set LNCS 9786 9790 constitutes the refereed proceedings of the 16th International Conference on Computational Science and Its Applications ICCSA 2016 held in Beijing China in July 2016. The 239 revised full papers and 14 short papers presented at 33 workshops were carefully reviewed and selected from 849 submissions. They are organized in five thematical tracks: computational methods, algorithms and scientific applications, high performance computing and networks, geometric modeling, graphics and visualization, advanced and emerging applications, and information systems and technologies.

**Generic Hopf Bifurcation in a Class of Integro-differential Equations** University of Minnesota. Institute for Mathematics and Its Applications, H. W. Stech, 1990      *Mathematical Modeling and Applications in Nonlinear Dynamics* Albert C.J. Luo, Hüseyin Merdan, 2016-01-28 The book covers nonlinear physical problems and mathematical modeling including molecular biology, genetics, neurosciences, artificial intelligence, with classical problems in mechanics and astronomy and physics. The chapters present nonlinear mathematical modeling in life science and physics through nonlinear differential equations, nonlinear discrete equations and hybrid equations. Such modeling can be effectively applied to the wide spectrum of nonlinear physical problems including the KAM, Kolmogorov, Arnold, Moser, KAM theory, singular differential equations, impulsive, dichotomous linear systems, analytical bifurcation trees of periodic motions and almost or pseudo almost periodic solutions in nonlinear dynamical systems.

Singularity Theory and its Applications Mark Roberts, Ian Stewart, 2006-11-14 A workshop on Singularities, Bifurcation and Dynamics was held at Warwick in July 1989 as part of a year long symposium on Singularity Theory and its applications. The proceedings fall into two halves: Volume I mainly on connections with algebraic geometry and volume II on connections with dynamical systems theory, bifurcation theory and applications in the sciences. The papers are original research stimulated by the symposium and workshop. All have been refereed and none will appear elsewhere. The main topic of volume II is new methods for the study of bifurcations in nonlinear dynamical systems and applications of these.

**Bifurcation and Chaos** Jan Awrejcewicz, 2012-12-06 Bifurcation and Chaos presents a collection of especially written articles describing the theory and application of nonlinear dynamics to a wide variety of problems encountered in physics and engineering. Each chapter is self contained and includes an elementary introduction, an exposition of the present state of the art and details of recent theoretical, computational and experimental results. Included among the practical systems analysed are hysteretic circuits, Josephson circuits, magnetic systems, railway dynamics, rotor dynamics and nonlinear dynamics of speech. This book contains important information and ideas for all mathematicians, physicists and engineers whose work in R & D or academia involves the practical consequences of chaotic dynamics.

**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 of the material given in an autumn school on Nonlinear

Analysis and Differential Equations held at the CMAF Centro de Matematica e Aplica *Global Bifurcation of Periodic Solutions with Symmetry* Berndt Fiedler, 2006-11-14 This largely self contained research monograph addresses the following type of questions Suppose one encounters a continuous time dynamical system with some built in symmetry Should one expect periodic motions which somehow reflect this symmetry And how would periodicity harmonize with symmetry Probing into these questions leads from dynamics to topology algebra singularity theory and to many applications Within a global approach the emphasis is on periodic motions far from equilibrium Mathematical methods include bifurcation theory transversality theory and generic approximations A new homotopy invariant is designed to study the global interdependence of symmetric periodic motions Besides mathematical techniques the book contains 5 largely nontechnical chapters The first three outline the main questions results and methods A detailed discussion pursues theoretical consequences and open problems Results are illustrated by a variety of applications including coupled oscillators and rotating waves these links to such disciplines as theoretical biology chemistry fluid dynamics physics and their engineering counterparts make the book directly accessible to a wider audience

**Chaotic Behaviour of Deterministic Dissipative Systems** Milos Marek, Igor Schreiber, 1995-07-20 This graduate text surveys both the theoretical and experimental aspects of deterministic chaotic behaviour

**Bifurcations of Planar Vector Fields** Jean-Pierre Francoise, Robert Roussarie, 2006-11-14

**Chaos in Automatic Control** Wilfrid Perruquetti, Jean-Pierre Barbot, 2018-10-03 Chaotic behavior arises in a variety of control settings In some cases it is beneficial to remove this behavior in others introducing or taking advantage of the existing chaotic components can be useful for example in cryptography Chaos in Automatic Control surveys the latest methods for inserting taking advantage of or removing chaos in a variety of applications This book supplies the theoretical and pedagogical basis of chaos in control systems along with new concepts and recent developments in the field Presented in three parts the book examines open loop analysis closed loop control and applications of chaos in control systems The first section builds a background in the mathematics of ordinary differential and difference equations on which the remainder of the book is based It includes an introductory chapter by Christian Mira a pioneer in chaos research The next section explores solutions to problems arising in observation and control of closed loop chaotic control systems These include model independent control methods strategies such as H infinity and sliding modes polytopic observers normal forms using homogeneous transformations and observability normal forms The final section explores applications in wireless transmission optics power electronics and cryptography Chaos in Automatic Control distills the latest thinking in chaos while relating it to the most recent developments and applications in control It serves as a platform for developing more robust autonomous intelligent and adaptive systems

*New Directions in Applied Mathematics* P.J. Hilton, G.S. Young, 2012-12-06 It is close enough to the end of the century to make a guess as to what the Encyclopedia Britannica article on the history of mathematics will report in 2582 We have said that the dominating theme of the Nineteenth Century was the development and application of the theory

of functions of one variable At the beginning of the Twentieth Century mathematicians turned optimistically to the study of functions of several variables But wholly unexpected difficulties were met new phenomena were discovered and new fields of mathematics sprung up to study and master them As a result except where development of methods from earlier centuries continued there was a recoil from applications Most of the best mathematicians of the first two thirds of the century devoted their efforts entirely to pure mathematics In the last third however the powerful methods devised by then for higher dimensional problems were turned onto applications and the tools of applied mathematics were drastically changed By the end of the century the temporary overemphasis on pure mathematics was completely gone and the traditional interconnections between pure mathematics and applications restored This century also saw the first primitive beginnings of the electronic calculator whose development in the next century led to our modern methods of handling mathematics

Differential Equations, Bifurcations And Chaos In Economics Wei-bin Zhang, 2005-07-18 Although the application of differential equations to economics is a vast and vibrant area the subject has not been systematically studied it is often treated as a subsidiary part of mathematical economics textbooks This book aims to fill that void by providing a unique blend of the theory of differential equations and their exciting applications to dynamic economics Containing not just a comprehensive introduction to the applications of the theory of linear and linearized differential equations to economic analysis the book also studies nonlinear dynamical systems which have only been widely applied to economic analysis in recent years It provides comprehensive coverage of the most important concepts and theorems in the theory of differential equations in a way that can be understood by any reader who has a basic knowledge of calculus and linear algebra In addition to traditional applications of the theory to economic dynamics the book includes many recent developments in different fields of economics

The Arnoldfest Vladimir Igorevich Arnold, 1999 This volume presents articles originating from invited talks at an exciting international conference held at The Fields Institute in Toronto celebrating the sixtieth birthday of the renowned mathematician Vladimir Arnold Experts from the world over including several from Arnold's school gave illuminating talks and lively poster sessions The presentations focused on Arnold's main areas of interest singularity theory the theory of curves symmetry groups dynamical systems mechanics and related areas of mathematics The book begins with notes of three lectures by V Arnold given in the framework of the Institute's Distinguished Lecturer program The topics of the lectures are 1 From Hilbert's Superposition Problem to Dynamical Systems 2 Symplectization Complexification and Mathematical Trinities 3 Topological Problems in Wave Propagation Theory and Topological Economy Principle in Algebraic Geometry Arnold's three articles include insightful comments on Russian and Western mathematics and science Complementing the first is Jurgen Moser's Recollections concerning some of the history of KAM theory

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