

Lecture Notes in Mathematics 2065
CIME Foundation Subseries

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Stability and Bifurcation Theory for Non-Autonomous Differential Equations

Cetraro, Italy 2011

Editors: Russell Johnson, Maria Patrizia Pera



 Springer

Nonlinear Differential Equations Invariable Stability And Bifurcation

M. Kubicek, M. Marek



Nonlinear Differential Equations Invariable Stability And Bifurcation:

Nonlinear Differential Equations Piero de Mottoni, Luigi Salvadori, 2014-05-10 Nonlinear Differential Equations Invariance Stability and Bifurcation presents the developments in the qualitative theory of nonlinear differential equations This book discusses the exchange of mathematical ideas in stability and bifurcation theory Organized into 26 chapters this book begins with an overview of the initial value problem for a nonlinear wave equation This text then focuses on the interplay between stability exchange for a stationary solution and the appearance of bifurcating periodic orbits Other chapters consider the development of methods for ascertaining stability and boundedness and explore the development of bifurcation and stability analysis in nonlinear models of applied sciences This book discusses as well nonlinear hyperbolic equations in further contributions featuring stability properties of periodic and almost periodic solutions The reader is also introduced to the stability problem of the equilibrium of a chemical network The final chapter deals with suitable spaces for studying functional equations This book is a valuable resource for mathematicians Nonlinear Differential Equations Pieroo De Mottoni, 1981 **Stability, Instability and Chaos** Paul Glendinning, 1994-11-25 An introduction to nonlinear differential equations which equips undergraduate students with the know how to appreciate stability theory and bifurcation Bifurcation in Autonomous and Nonautonomous Differential Equations with Discontinuities Marat Akhmet, Ardak Kashkynbayev, 2017-01-23 This book focuses on bifurcation theory for autonomous and nonautonomous differential equations with discontinuities of different types those with jumps present either in the right hand side or in trajectories or in the arguments of solutions of equations The results obtained can be applied to various fields such as neural networks brain dynamics mechanical systems weather phenomena and population dynamics Developing bifurcation theory for various types of differential equations the book is pioneering in the field It presents the latest results and provides a practical guide to applying the theory to differential equations with various types of discontinuity Moreover it offers new ways to analyze nonautonomous bifurcation scenarios in these equations As such it shows undergraduate and graduate students how bifurcation theory can be developed not only for discrete and continuous systems but also for those that combine these systems in very different ways At the same time it offers specialists several powerful instruments developed for the theory of discontinuous dynamical systems with variable moments of impact differential equations with piecewise constant arguments of generalized type and Filippov systems **Methods of Bifurcation Theory** S.-N. Chow, J. K. Hale, 2012-12-06 An alternative title for this book would perhaps be Nonlinear Analysis Bifurcation Theory and Differential Equations Our primary objective is to discuss those aspects of bifurcation theory which are particularly meaningful to differential equations To accomplish this objective and to make the book accessible to a wider we have presented in detail much of the relevant background audience material from nonlinear functional analysis and the qualitative theory of differential equations Since there is no good reference for some of the mate rial its inclusion seemed necessary Two distinct aspects of bifurcation theory

are discussed static and dynamic Static bifurcation theory is concerned with the changes that occur in the structure of the set of zeros of a function as parameters in the function are varied If the function is a gradient then variational techniques play an important role and can be employed effectively even for global problems If the function is not a gradient or if more detailed information is desired the general theory is usually local At the same time the theory is constructive and valid when several independent parameters appear in the function In differential equations the equilibrium solutions are the zeros of the vector field Therefore methods in static bifurcation theory are directly applicable

Invariant Manifolds and Fibrations for Perturbed Nonlinear Schrödinger Equations Charles Li, Stephen Wiggins, 2012-12-06 This book presents a development of invariant manifold theory for a specific canonical nonlinear wave system the perturbed nonlinear Schrödinger equation The main results fall into two parts The first part is concerned with the persistence and smoothness of locally invariant manifolds The second part is concerned with fibrations of the stable and unstable manifolds of inflowing and overflowing invariant manifolds The central technique for proving these results is Hadamard's graph transform method generalized to an infinite dimensional setting However our setting is somewhat different than other approaches to infinite dimensional invariant manifolds since for conservative wave equations many of the interesting invariant manifolds are infinite dimensional and noncompact The style of the book is that of providing very detailed proofs of theorems for a specific infinite dimensional dynamical system the perturbed nonlinear Schrödinger equation The book is organized as follows Chapter one gives an introduction which surveys the state of the art of invariant manifold theory for infinite dimensional dynamical systems Chapter two develops the general setup for the perturbed nonlinear Schrödinger equation Chapter three gives the proofs of the main results on persistence and smoothness of invariant manifolds Chapter four gives the proofs of the main results on persistence and smoothness of fibrations of invariant manifolds This book is an outgrowth of our work over the past nine years concerning homoclinic chaos in the perturbed nonlinear Schrödinger equation The theorems in this book provide key building blocks for much of that work

Bifurcation Theory of Functional Differential Equations Shangjiang Guo, Jianhong Wu, 2013-07-30 This book provides a crash course on various methods from the bifurcation theory of Functional Differential Equations FDEs FDEs arise very naturally in economics life sciences and engineering and the study of FDEs has been a major source of inspiration for advancement in nonlinear analysis and infinite dimensional dynamical systems The book summarizes some practical and general approaches and frameworks for the investigation of bifurcation phenomena of FDEs depending on parameters with chap This well illustrated book aims to be self contained so the readers will find in this book all relevant materials in bifurcation dynamical systems with symmetry functional differential equations normal forms and center manifold reduction This material was used in graduate courses on functional differential equations at Hunan University China and York University Canada

Oscillation, Bifurcation and Chaos F. V. Atkinson, William F. Langford, Angelo Bernardo Mingarelli, Natural Sciences and Engineering Research Council Canada, 1987 The year 1986

marked the sesquicentennial of the publication in 1836 of J Sturm's classic memoir on boundary value problems for second order equations. In July 1986 the Canadian Mathematical Society sponsored the International Conference on Oscillation Bifurcation and Chaos held at the University of Toronto. This volume contains the proceedings of this conference. Requiring a basic knowledge of the qualitative theory of differential equations, this book is aimed at mathematicians and students working in any area of differential equations as well as researchers interested in applying recent results in oscillation and bifurcation theory to other disciplines. Readers will gain a broad perspective on current research in this area from both the Sturmian and dynamical systems points of view as well as an understanding of new results useful for application and of directions for future research.

Introduction to Functional Differential Equations Jack K. Hale, Sjoerd M. Verduyn Lunel, 2013-11-21
The present book builds upon an earlier work of J Hale *Theory of Functional Differential Equations* published in 1977. We have tried to maintain the spirit of that book and have retained approximately one third of the material intact. One major change was a complete new presentation of linear systems. Chapters 6-9 for retarded and neutral functional differential equations. The theory of dissipative systems Chapter 4 and global attractors was completely revamped as well as the invariant manifold theory Chapter 10 near equilibrium points and periodic orbits. A more complete theory of neutral equations is presented see Chapters 1-2, 3-9 and 10. Chapter 12 is completely new and contains a guide to active topics of research. In the sections on supplementary remarks we have included many references to recent literature but of course not nearly all because the subject is so extensive. Jack K Hale, Sjoerd M Verduyn Lunel. Contents Preface v Introduction 1 1.1 Linear differential difference equations 11 1.1.1 Differential and difference equations 11 1.1.2 Retarded differential difference equations 13 1.1.3 Exponential estimates of $x(t)$ 15 1.1.4 The characteristic equation 17 1.1.5 The fundamental solution 18 1.1.6 The variation of constants formula 23 1.1.7 Neutral differential difference equations 25 1.1.8 Supplementary remarks 34 2. Functional differential equations Basic theory 38 2.1 Definition of a retarded equation 38 2.2 Existence, uniqueness and continuous dependence 39 2.3 Continuation of solutions 44

Elements of Applied Bifurcation Theory Yuri A. Kuznetsov, 2023-04-18
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.

Nonlinearity, Bifurcation and Chaos Jan Awrejcewicz, Peter Hagedorn, 2012-10-24
Nonlinearity, Bifurcation and Chaos: Theory and Application is an edited book focused on introducing both theoretical and application oriented approaches in science and engineering. It

contains 12 chapters and is recommended for university teachers scientists researchers engineers as well as graduate and post graduate students either working or interested in the field of nonlinearity bifurcation and chaos

Fundamentals of Dynamical Systems and Bifurcation Theory Milan Medved, 1992-05-21 This graduate level text explains the fundamentals of the theory of dynamical systems After reading it you will have a good enough understanding of the area to study the extensive literature on dynamical systems The book is self contained as all the essential definitions and proofs are supplied as are useful references all the reader needs is a knowledge of basic mathematical analysis algebra and topology However the first chapter contains an explanation of some of the methods of differential topology an understanding of which is essential to the theory of dynamical systems A clear introduction to the field which is equally useful for postgraduates in the natural sciences engineering and economics

Singularities and Groups in Bifurcation Theory Martin Golubitsky, David G. Schaeffer, 2013-11-27 This book has been written in a frankly partisan spirit we believe that singularity theory offers an extremely useful approach to bifurcation problems and we hope to convert the reader to this view In this preface we will discuss what we feel are the strengths of the singularity theory approach This discussion then leads naturally into a discussion of the contents of the book and the prerequisites for reading it Let us emphasize that our principal contribution in this area has been to apply pre existing techniques from singularity theory especially unfolding theory and classification theory to bifurcation problems Many of the ideas in this part of singularity theory were originally proposed by Rene Thom the subject was then developed rigorously by John Mather and extended by V I Arnold In applying this material to bifurcation problems we were greatly encouraged by how well the mathematical ideas of singularity theory meshed with the questions addressed by bifurcation theory Concerning our title Singularities and Groups in Bifurcation Theory it should be mentioned that the present text is the first volume in a two volume sequence In this volume our emphasis is on singularity theory with group theory playing a subordinate role In Volume II the emphasis will be more balanced Having made these remarks let us set the context for the discussion of the strengths of the singularity theory approach to bifurcation As we use the term bifurcation theory is the study of equations with multiple solutions

Computational Methods in Bifurcation Theory and Dissipative Structures M. Kubicek, M. Marek, 2012-12-06 Dissipative structures is a concept which has recently been used in physics to discuss the formation of structures organized in space and or time at the expense of the energy flowing into the system from the outside The space time structural organization of biological systems starting from the subcellular level up to the level of ecological systems coherent structures in laser and of elastic stability in mechanics instability in hydro plasma physics problems dynamics leading to the development of turbulence behavior of electrical networks and chemical reactors form just a short list of problems treated in this framework Mathematical models constructed to describe these systems are usually nonlinear often formed by complicated systems of algebraic ordinary differential or partial differential equations and include a number of characteristic parameters In problems of theoretical interest as well as engineering

practice we are concerned with the dependence of solutions on parameters and particularly with the values of parameters where qualitatively new types of solutions e g oscillatory solutions new stationary states and chaotic attractors appear bifurcate Numerical techniques to determine both bifurcation points and the dependence of steady state and oscillatory solutions on parameters are developed and discussed in detail in this text The text is intended to serve as a working manual not only for students and research workers who are interested in dissipative structures but also for practicing engineers who deal with the problems of constructing models and solving complicated nonlinear systems *Applied Mechanics Reviews*

,1973 **Dynamics in Infinite Dimensions** Jack K. Hale,Luis T. Magalhaes,Waldyr Oliva,2006-04-18 State of the art in qualitative theory of functional differential equations Most of the new material has never appeared in book form and some not even in papers Second edition updated with new topics and results Methods discussed will apply to other equations and applications Functional Differential Equations Constantin Corduneanu,Yizeng Li,Mehran Mahdavi,2016-03-30 Features new results and up to date advances in modeling and solving differential equations Introducing the various classes of functional differential equations Functional Differential Equations Advances and Applications presents the needed tools and topics to study the various classes of functional differential equations and is primarily concerned with the existence uniqueness and estimates of solutions to specific problems The book focuses on the general theory of functional differential equations provides the requisite mathematical background and details the qualitative behavior of solutions to functional differential equations The book addresses problems of stability particularly for ordinary differential equations in which the theory can provide models for other classes of functional differential equations and the stability of solutions is useful for the application of results within various fields of science engineering and economics Functional Differential Equations Advances and Applications also features Discussions on the classes of equations that cannot be solved to the highest order derivative and in turn addresses existence results and behavior types Oscillatory motion and solutions that occur in many real world phenomena as well as in man made machines Numerous examples and applications with a specific focus on ordinary differential equations and functional differential equations with finite delay An appendix that introduces generalized Fourier series and Fourier analysis after periodicity and almost periodicity An extensive Bibliography with over 550 references that connects the presented concepts to further topical exploration Functional Differential Equations Advances and Applications is an ideal reference for academics and practitioners in applied mathematics engineering economics and physics The book is also an appropriate textbook for graduate and PhD level courses in applied mathematics differential and difference equations differential analysis and dynamics processes CONSTANTIN CORDUNEANU PhD is Emeritus Professor in the Department of Mathematics at The University of Texas at Arlington USA The author of six books and over 200 journal articles he is currently Associate Editor for seven journals a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Romanian Academy and past president of the American Romanian Academy of Arts and Sciences

YIZENG LI PhD is Professor in the Department of Mathematics at Tarrant County College USA He is a member of the Society for Industrial and Applied Mathematics MEHRAN MAHDAVI PhD is Professor in the Department of Mathematics at Bowie State University USA The author of numerous journal articles he is a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Mathematical Association of America

Perturbation Theory Giuseppe Gaeta, 2022-12-16 This volume in the Encyclopedia of Complexity and Systems Science Second Edition is devoted to the fundamentals of Perturbation Theory PT as well as key applications areas such as Classical and Quantum Mechanics Celestial Mechanics and Molecular Dynamics Less traditional fields of application such as Biological Evolution are also discussed Leading scientists in each area of the field provide a comprehensive picture of the landscape and the state of the art with the specific goal of combining mathematical rigor explicit computational methods and relevance to concrete applications New to this edition are chapters on Water Waves Rogue Waves Multiple Scales methods legged locomotion Condensed Matter among others while all other contributions have been revised and updated Coverage includes the theory of Poincare Birkhoff Normal Forms aspects of PT in specific mathematical settings Hamiltonian KAM theory Nekhoroshev theory and symmetric systems technical problems arising in PT with solutions convergence of series expansions diagrammatic methods parametric resonance systems with nilpotent real part PT for non smooth systems and on PT for PDEs write out this acronym partial differential equations Another group of papers is focused specifically on applications to Celestial Mechanics Quantum Mechanics and the related semiclassical PT Quantum Bifurcations Molecular Dynamics the so called choreographies in the N body problem as well as Evolutionary Theory Overall this unique volume serves to demonstrate the wide utility of PT while creating a foundation for innovations from a new generation of graduate students and professionals in Physics Mathematics Mechanics Engineering and the Biological Sciences

The Shock and Vibration Digest ,1989-07 **OAR** ,1967

Nonlinear Differential Equations Invariable Stability And Bifurcation: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year.

Nonlinear Differential Equations Invariable Stability And Bifurcation : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Nonlinear Differential Equations Invariable Stability And Bifurcation : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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