



Continuation and Bifurcations: Numerical Techniques and Applications

Edited by

**Dirk Roose, Bart De Moor
and Alastair Spence**

MAA-101 ACP Series

Continuation And Bifurcations Numerical Techniques And Applications

**Dirk Roose, Bart De Dier, Alastair
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Numerical Continuation Methods for Dynamical Systems Bernd Krauskopf,Hinke M. Osinga,Jorge Galan-Vioque,2007-11-06 Path following in combination with boundary value problem solvers has emerged as a continuing and strong influence in the development of dynamical systems theory and its application It is widely acknowledged that the software package AUTO developed by Eusebius J Doedel about thirty years ago and further expanded and developed ever since plays a central role in the brief history of numerical continuation This book has been compiled on the occasion of Sebius Doedel s 60th birthday Bringing together for the first time a large amount of material in a single accessible source it is hoped that the book will become the natural entry point for researchers in diverse disciplines who wish to learn what numerical continuation techniques can achieve The book opens with a foreword by Herbert B Keller and lecture notes by Sebius Doedel himself that introduce the basic concepts of numerical bifurcation analysis The other chapters by leading experts discuss continuation for various types of systems and objects and showcase examples of how numerical bifurcation analysis can be used in concrete applications Topics that are treated include interactive continuation tools higher dimensional continuation the computation of invariant manifolds and continuation techniques for slow fast systems for symmetric Hamiltonian systems for spatially extended systems and for systems with delay Three chapters review physical applications the dynamics of a SQUID global bifurcations in laser systems and dynamics and bifurcations in electronic circuits

Handbook of Dynamical Systems B. Fiedler,2002-02-21 This handbook is volume II in a series collecting mathematical state of the art surveys in the field of dynamical systems Much of this field has developed from interactions with other areas of science and this volume shows how concepts of dynamical systems further the understanding of mathematical issues that arise in applications Although modeling issues are addressed the central theme is the mathematically rigorous investigation of the resulting differential equations and their dynamic behavior However the authors and editors have made an effort to ensure readability on a non technical level for mathematicians from other fields and for other scientists and engineers The eighteen surveys collected here do not aspire to encyclopedic completeness but present selected paradigms The surveys are grouped into those emphasizing finite dimensional methods numerics topological methods and partial differential equations Application areas include the dynamics of neural networks fluid flows nonlinear optics and many others While the survey articles can be read independently they deeply share recurrent themes from dynamical systems Attractors bifurcations center manifolds dimension reduction ergodicity homoclinicity hyperbolicity

invariant and inertial manifolds normal forms recurrence shift dynamics stability to name just a few are ubiquitous dynamical concepts throughout the articles

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

Elements of Applied Bifurcation Theory Yuri

Kuznetsov, 2013-03-09 The years that have passed since the publication of the first edition of this book proved that the basic principles used to select and present the material made sense The idea was to write a simple text that could serve as a serious introduction to the subject Of course the meaning of simplicity varies from person to person and from country to country The word introduction contains even more ambiguity To start reading this book only a moderate knowledge of linear algebra and calculus is required Other preliminaries qualified as elementary in modern mathematics are explicitly formulated in the book These include the Fredholm Alternative for linear systems and the multidimensional Implicit Function Theorem Using these very limited tools a framework of notions results and methods is gradually built that allows one to read and possibly write scientific papers on bifurcations of nonlinear dynamical systems Among other things progress in the sciences means that mathematical results and methods that once were new become standard and routinely used by the research and development community Hopefully this edition of the book will contribute to this process The book's structure has been kept intact Most of the changes introduced reflect recent theoretical and software developments in which the author was involved Important changes in the third edition can be summarized as follows A new section devoted to the fold flip bifurcation for maps has appeared in Chapter 9

Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05

Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics *Mathematics of Complexity and*

Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers

SIAM Journal on Scientific Computing, 2009 Computational Modelling of Bifurcations and Instabilities in Fluid Dynamics Alexander Gelfgat, 2018-07-06

Instabilities of fluid flows and the associated transitions between different possible flow states provide a fascinating set of problems that have attracted researchers for over a hundred years This book addresses state of the art developments in numerical techniques for computational modelling of fluid instabilities and related bifurcation structures as well as providing comprehensive reviews of recently solved challenging problems in the field

Handbook of Numerical Analysis Philippe G. Ciarlet, Jacques Louis Lions, Jacques-Louis Lions, 1990

Numerical Continuation Methods for Dynamical Systems Bernd Krauskopf, Hinke M. Osinga, Jorge Galan-Vioque, 2007-07-26

Path following in combination with boundary value problem solvers has emerged as a continuing and strong influence in the development of dynamical systems theory and its application It is widely acknowledged that the software package AUTO developed by Eusebius J Doedel about thirty years ago and further expanded and developed ever since plays a central role in the brief history of numerical continuation This book has been compiled on the occasion of Sebius Doedel's 60th birthday Bringing together for the first time a large amount of material in a single accessible source it is hoped that the book will become the natural entry point for researchers in diverse disciplines who wish to learn what numerical continuation techniques can achieve The book opens with a foreword by Herbert B Keller and lecture notes by Sebius Doedel himself that introduce the basic concepts of numerical bifurcation analysis The other chapters by leading experts discuss continuation for various types of systems and objects and showcase examples of how numerical bifurcation analysis can be used in concrete applications Topics that are treated include interactive continuation tools higher dimensional continuation the computation of invariant manifolds and continuation techniques for slow fast systems for symmetric Hamiltonian systems for spatially extended systems and for systems with delay Three chapters review physical applications the dynamics of a SQUID global bifurcations in laser systems and dynamics and bifurcations in electronic circuits

Elements of Applied Bifurcation Theory Ilya Aleksandrovich Kuznetsov, 1995-06-13

A solid basis for anyone studying the dynamical systems theory providing the necessary understanding of the approaches methods results and terminology used in the modern applied mathematics literature Covering the basic topics in the field the text can be used in a course on nonlinear dynamical systems or system theory Special attention is given to efficient numerical implementations of the developed techniques illustrated by several examples from recent research papers A moderate mathematical background is assumed and whenever possible only elementary mathematical tools are used making this book suitable for advanced undergraduate or graduate students in applied mathematics as well as for researchers in other disciplines who use dynamical systems as model tools in their studies

Numerical Continuation Methods Eugene L. Allgower, Kurt Georg, 2012-12-06

Over the past fifteen years two new techniques have yielded extremely important contributions toward the numerical solution

of nonlinear systems of equations This book provides an introduction to and an up to date survey of numerical continuation methods tracing of implicitly defined curves of both predictor corrector and piecewise linear types It presents and analyzes implementations aimed at applications to the computation of zero points fixed points nonlinear eigenvalue problems bifurcation and turning points and economic equilibria Many algorithms are presented in a pseudo code format An appendix supplies five sample FORTRAN programs with numerical examples which readers can adapt to fit their purposes and a description of the program package SCOUT for analyzing nonlinear problems via piecewise linear methods An extensive up to date bibliography spanning 46 pages is included The material in this book has been presented to students of mathematics engineering and sciences with great success and will also serve as a valuable tool for researchers in the field *AGARD Lecture Series* North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development,1993

Computation of Eigenvalue Resonance in Numerical Bifurcation Problems Mark R. Myers,1994 *Numerical Bifurcation Analysis of Maps* I[O]rii Aleksandrovich Kuznet[s]ov,Yuri A. Kuznetsov,Hil G. E. Meijer,2019-03-28 Combines a systematic analysis of bifurcations of iterated maps with concrete MATLAB implementations and applications NATO Science Programme Yearbook Compendium, 1985-1989 ,1989 **Journal of the Society for Industrial and Applied Mathematics. Series B: Numerical Analysis** Society for Industrial and Applied Mathematics,2005 **Dynamique Non-linéaire Et Le Chaos** ,1993 **The Cumulative Book Index** ,1991 A world list of books in the English language

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