

THE IMA VOLUMES
IN MATHEMATICS
AND ITS APPLICATIONS

VOLUME 119

Eusebius Doedel Laurette S. Tuckerman

Editors

Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems



Springer

Numerical Methods For Bifurcation Problems

Hans Detlef Mittelman, Helmut Weber



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Numerical Methods for Bifurcation Problems T. Kupper, Hans D. Mittelman, H. Weber, 1984-07-01 Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems Eusebius Doedel, Laurette S. Tuckerman, 2012-12-06

The Institute for Mathematics and its Applications IMA devoted its 1997 1998 program to Emerging Applications of Dynamical Systems Dynamical systems theory and related numerical algorithms provide powerful tools for studying the solution behavior of differential equations and mappings In the past 25 years computational methods have been developed for calculating fixed points limit cycles and bifurcation points A remaining challenge is to develop robust methods for calculating more complicated objects such as higher codimension bifurcations of fixed points periodic orbits and connecting orbits as well as the calculation of invariant manifolds Another challenge is to extend the applicability of algorithms to the very large systems that result from discretizing partial differential equations Even the calculation of steady states and their linear stability can be prohibitively expensive for large systems e g 10^3 10^6 equations if attempted by simple direct methods Several of the papers in this volume treat computational methods for low and high dimensional systems and in some cases their incorporation into software packages A few papers treat fundamental theoretical problems including smooth factorization of matrices self organized criticality and unfolding of singular heteroclinic cycles Other papers treat applications of dynamical systems computations in various scientific fields such as biology chemical engineering fluid mechanics and mechanical engineering Continuation Techniques and Bifurcation Problems

MITTELMANN, FISCHER, 2013-11-21 The analysis of parameter dependent nonlinear has received much attention in recent years Numerical continuation techniques allow the efficient computation of solution branches in a one parameter problem In many cases continuation procedures are used as part of a more complete analysis of a nonlinear problem based on bifurcation theory and singularity theory These theories contribute to the understanding of many nonlinear phenomena in nature and they form the basis for various analytical and numerical tools which provide qualitative and quantitative results about nonlinear systems In this issue we have collected a number of papers dealing with continuation techniques and bifurcation problems Readers familiar with the notions of continuation and bifurcation will find recent research results addressing a variety of aspects in this issue Those who intend to learn about the field or a specific topic in it may find it useful to first consult earlier literature on the numerical treatment of these problems together with some theoretical background The papers in this issue fall naturally into different groups **Numerical Methods for Bifurcation Problems**

KÜPPER, MITTELMANN, WEBER, 2013-11-27 Continuation and Bifurcations: Numerical Techniques and Applications Dirk Roose, Bart De Dier, Alastair Spence, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Leuven Belgium September 18 22 1989 *Lectures on Numerical Methods in Bifurcation Problems* Herbert Bishop Keller, A. K. Nandakumaran, Mythily Ramaswamy, 1987 **Lectures on numerical methods in bifurcation problems** Herbert B.

Keller,1987 **Bifurcation Problems and their Numerical Solution** H. D. Mittelman,H. Weber,2013-11-21

Lectures on Numerical Methods in Bifurcation Problems Herbert Bishop Keller,A. K. Nandakumaran,Indian Institute of Science, Bangalore,Mythily Ramaswamy,1987 *Numerical Methods of Bifurcation Problems Via Singular Value Decompositions and Homotopy Methods* Yun-qi Shen,1988 **Numerical Bifurcation Analysis for Reaction-Diffusion Equations** Zhen Mei,2000-06-21 This monograph is the first to provide readers with numerical tools for a systematic analysis of bifurcation problems in reaction diffusion equations Many examples and figures illustrate analysis of bifurcation scenario and implementation of numerical schemes Readers will gain a thorough understanding of numerical bifurcation analysis and the necessary tools for investigating nonlinear phenomena in reaction diffusion equations **Numerical Methods for Bifurcation Problems** KÜPPER,MITTELMANN,H. Weber,1984 **Numerical Methods for Bifurcations of Dynamical Equilibria** Willy J. F. Govaerts,2000-01-01 Dynamical systems arise in all fields of applied mathematics The author focuses on the description of numerical methods for the detection computation and continuation of equilibria and bifurcation points of equilibria of dynamical systems This subfield has the particular attraction of having links with the geometric theory of differential equations numerical analysis and linear algebra *Numerical Methods for Bifurcations of Dynamical Equilibria* Willy J. F. Govaerts,2000-01-01 Numerical methods for the detection computation and continuation of equilibria and bifurcation points of equilibria of dynamical systems 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 **Bifurcation and Symmetry** BÖHMER,ALLGOWER,GOLUBITSKY,2013-03-08 Symmetry is a property which occurs throughout nature and it is therefore natural that symmetry should be considered when

attempting to model nature In many cases these models are also nonlinear and it is the study of nonlinear symmetric models that has been the basis of much recent work Although systematic studies of nonlinear problems may be traced back at least to the pioneering contributions of Poincare this remains an area with challenging problems for mathematicians and scientists Phenomena whose models exhibit both symmetry and nonlinearity lead to problems which are challenging and rich in complexity beauty and utility In recent years the tools provided by group theory and representation theory have proven to be highly effective in treating nonlinear problems involving symmetry By these means highly complex situations may be decomposed into a number of simpler ones which are already understood or are at least easier to handle In the realm of numerical approximations the systematic exploitation of symmetry via group representation theory is even more recent In the hope of stimulating interaction and acquaintance with results and problems in the various fields of applications bifurcation theory and numerical analysis we organized the conference and workshop Bifurcation and Symmetry Cross Influences between Mathematics and Applications during June 27-8 14 1991 at the Philipps University of Marburg Germany

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 *Numerical Methods for Bifurcation Problems* Hans Detlef Mittelman, Helmut Weber, 1980

Numerical Methods for Large Eigenvalue Problems Yousef Saad, 2011-05-26 This revised edition discusses numerical methods for computing the eigenvalues and eigenvectors of large sparse matrices It provides an in depth view of the numerical methods that are applicable for solving matrix eigenvalue problems that arise in various engineering and scientific applications Each chapter was updated by shortening or deleting outdated topics adding topics of more recent

interest and adapting the Notes and References section Significant changes have been made to Chapters 6 through 8 which describe algorithms and their implementations and now include topics such as the implicit restart techniques the Jacobi Davidson method and automatic multilevel substructuring *A bibliography on numerical methods for bifurcation problems*
Hans Detlef Mittelmann, Helmut Weber, 1981

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