Eusebius Doedel   Laurette S. Tuckerman

Editors

Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems

Springer

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Lingjun Ying

Numerical Methods For Bifurcation Problems:

Numerical Methods for Bifurcation Problems T. Kupper,Hans D. Mittelmann,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 calcuation 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 **Bifurcation Problems and their Numerical Solution** H. D. Mittelmann,H. Weber,2013-11-21 *Numerical Methods for Bifurcation Problems* KÜPPER,MITTELMANN,WEBER,2013-11-27 Lectures on Numerical Methods in Bifurcation Problems Herbert B. Keller,A.K. Nandakumaran,Mythily Ramaswamy,1987 Lectures delivered at the Indian Institute of Science Bangalore under the T I F R I I Sc Programme in Applications of Mathematics Published for the Tata Institute of Fundamental Research

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 B. Keller,1987 *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 of Bifurcation Problems Via Singular Value Decompositions and Homotopy Methods Yun-qiu Shen,1988 **Numerical Methods for Bifurcation Problems** Hans Detlef Mittelmann,Helmut Weber,1980 **Numerical Bifurcation Analysis for Reaction-Diffusion Equations** Zhen Mei,2013-03-09 Reaction diffusion equations are typical mathematical models in biology chemistry and physics These equations often depend on various parame ters e g temperature catalyst and diffusion rate etc Moreover they form normally a nonlinear dissipative system coupled by reaction among differ ent substances The number and stability of solutions of a reaction diffusion system may change abruptly with variation of the control parameters Cor respondingly we see formation of patterns in the system for example an onset of convection and waves in the chemical reactions This kind of phe nomena is called bifurcation Nonlinearity in the system makes bifurcation take place constantly in reaction diffusion processes Bifurcation in turn in duces uncertainty in outcome of reactions Thus analyzing bifurcations is essential for understanding mechanism of pattern formation and nonlinear dynamics of a reaction diffusion process However an analytical bifurcation analysis is possible only for exceptional cases This book is devoted to nu merical analysis of bifurcation problems in reaction diffusion equations The aim is to pursue a systematic investigation of generic bifurcations and mode interactions of a dass of reaction diffusion equations This is realized with a combination of three mathematical approaches numerical methods for con tinuation of solution curves and for detection and computation of bifurcation points effective low dimensional modeling of bifurcation scenario and long time dynamics of reaction diffusion equations analysis of bifurcation sce nario mode interactions and impact of boundary conditions **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 Problems and Their Numerical Solution** H. D. Mittelmann,H. Weber,1980 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 differ ential or partial differential equations and include a number of character istic 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 depen dence 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 a Class of Finite-dimensional Bifurcation Problems* University of Maryland at College Park. Computer Science Center,W. C. Rheinboldt,1976 **A bibliography on numerical methods for bifurcation problems** Hans Detlef Mittelmann,Helmut Weber,1981 Lectures on Numerical Methods in Bifurcation Problems Herbert Bishop Keller,1987 **Numerical Continuation and Bifurcation in Nonlinear PDEs** Hannes Uecker,2021-08-19 This book provides a hands on approach to numerical continuation and bifurcation for nonlinear PDEs in 1D 2D and 3D Partial differential equations PDEs are the main tool to describe spatially and temporally extended systems in nature PDEs usually come with parameters and the study of the parameter dependence of their solutions is an important task Letting one parameter vary typically yields a branch of solutions and at special parameter values new branches may bifurcate After a concise review of some analytical background and numerical methods the author

explains the free MATLAB package pde2path by using a large variety of examples with demo codes that can be easily adapted to the reader s given problem Numerical Continuation and Bifurcation in Nonlinear PDEs will appeal to applied mathematicians and scientists from physics chemistry biology and economics interested in the numerical solution of nonlinear PDEs particularly the parameter dependence of solutions It can be used as a supplemental text in courses on nonlinear PDEs and modeling and bifurcation **Numerical Methods for Bifurcation Problems** KÜPPER,MITTELMANN,H. Weber,1984

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