

Eusebius Doedel Laurette S. Tuckerman
Editors

Numerical Methods for Bifurcation Problems and Large-Scale Dynamical Systems



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Numerical Methods For Bifurcation Problems

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Numerical Methods For Bifurcation Problems:

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 systems 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.

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 TIFR IISc Programme in Applications of Mathematics. Published for the Tata Institute of Fundamental Research.

Lectures on numerical methods in bifurcation problems Herbert B. Keller, 1987.

Numerical Methods for Bifurcation Problems KÜPPER, MITTELMANN, WEBER, 2013-11-27 **Bifurcation**

Problems and their Numerical Solution H. D. Mittelman,H. Weber,2013-11-21 **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 Numerical Methods of Bifurcation Problems Via Singular Value Decompositions and Homotopy Methods Yun-qiu Shen,1988 *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 *Bifurcation Problems and Their Numerical Solution* H. D. Mittelman,H. 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 parameters e.g temperature catalyst and diffusion rate etc Moreover they form normally a nonlinear dissipative system coupled by reaction among different substances The number and stability of solutions of a reaction diffusion system may change abruptly with variation of the control parameters Correspondingly we see formation of patterns in the system for example an onset of convection and waves in the chemical reactions This kind of phenomena is called bifurcation Nonlinearity in the system makes bifurcation take place constantly in reaction diffusion processes Bifurcation in turn induces 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 numerical analysis of bifurcation problems in reaction diffusion equations The aim is to pursue a systematic investigation of generic bifurcations and mode interactions of a class of reaction diffusion equations This is realized with a combination of three mathematical approaches numerical methods for continuation 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 scenario mode interactions and impact of boundary conditions Numerical Methods for Bifurcation Problems Hans Detlef Mittelman,Helmut Weber,1980

Lectures on Numerical Methods in Bifurcation Problems Herbert Bishop Keller,1987 **Numerical Methods for a Class of Finite-dimensional Bifurcation Problems** University of Maryland at College Park. Computer Science Center,W. C. Rheinboldt,1976 **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.

Numerical Methods for Bifurcation Problems KÜPPER, MITTELMANN, H. Weber, 1984 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.

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 Poincaré, 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, 1991 at the Philipps University of Marburg, Germany. *A bibliography on numerical methods for bifurcation problems* Hans Detlef Mittelman, Helmut Weber, 1981

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