

Numerical Bifurcation Analysis for Reaction-Diffusion Equations





Numerical Bifurcation Analysis For Reactiondiffusion Equations

Thomas Deisboeck, J. Yasha Kresh

Numerical Bifurcation Analysis For Reaction diffusion Equations:

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 Numerical Bifurcation Analysis for Reaction-Diffusion Equations Zhen reaction diffusion equations 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 scenario mode interactions and impact of boundary conditions Computational Science — ICCS 2004 Marian Bubak, Geert D. van Albada, Peter M.A. Sloot, Jack Dongarra, 2004-05-25 The International Conference on Computational Science ICCS 2004 held in Krak ow Poland June 6 9 2004 was a follow up to the highly successful ICCS 2003 held at two locations in Melbourne Australia and St Petersburg Russia ICCS 2002 in Amsterdam The Netherlands and ICCS 2001 in San Francisco USA As computational science is still evolving in its quest for subjects of investgation and e cient methods ICCS 2004 was devised as a forum for scientists from mathematics and computer science as the basic computing disciplines and application areas interested in advanced computational methods for physics chemistry life sciences engineering arts and humanities as well as computer system vendors and software developers. The main objective of this conference was to discuss problems and solutions in all areas to identify new issues to shape future directions of research and to help users apply various advanced computational techniques The event harvested recent developments in com tationalgridsandnextgenerationcomputingsystems tools advancednumerical methods data driven systems and novel

application elds such as complex stems nance econo physics and population evolution **Bifurcation Analysis of Fluid Flows** Henk A. Dijkstra, Fred W. Wubs, 2023-08-24 A better understanding of the mechanisms leading a fluid system to exhibit turbulent behavior is one of the grand challenges of the physical and mathematical sciences Over the last few decades numerical bifurcation methods have been extended and applied to a number of flow problems to identify critical conditions for fluid instabilities to occur This book provides a state of the art account of these numerical methods with much attention to modern linear systems solvers and generalized eigenvalue solvers These methods also have a broad applicability in industrial environmental and astrophysical flows The book is a must have reference for anyone working in scientific fields where fluid flow instabilities play a role Exercises at the end of each chapter and Python code for the bifurcation analysis of canonical fluid flow problems provide practice material to get to grips with the methods and concepts presented in the book

Practical Bifurcation and Stability Analysis Rüdiger Seydel,2009-12-14 Probably the first book to describe computational methods for numerically computing steady state and Hopf bifurcations Requiring only a basic knowledge of calculus and using detailed examples problems and figures this is an ideal textbook for graduate students *Patterns of Dynamics* Pavel Gurevich, Juliette Hell, Björn Sandstede, Arnd Scheel, 2018-02-07 Theoretical advances in dynamical systems theory and their applications to pattern forming processes in the sciences and engineering are discussed in this volume that resulted from the conference Patterns in Dynamics held in honor of Bernold Fiedler in Berlin July 25 29 2016 The contributions build and develop mathematical techniques and use mathematical approaches for prediction and control of complex systems The underlying mathematical theories help extract structures from experimental observations and conversely shed light on the formation dynamics and control of spatio temporal patterns in applications Theoretical areas covered include geometric analysis spatial dynamics spectral theory traveling wave theory and topological data analysis also discussed are their applications to chemotaxis self organization at interfaces neuroscience and transport processes

Combustion Thermodynamics and Dynamics Joseph M. Powers, 2016-04-18 Combustion Thermodynamics and Dynamics builds on a foundation of thermal science chemistry and applied mathematics that will be familiar to most undergraduate aerospace mechanical and chemical engineers to give a first year graduate level exposition of the thermodynamics physical chemistry and dynamics of advection reaction diffusion Special effort is made to link notions of time independent classical thermodynamics with time dependent reactive fluid dynamics In particular concepts of classical thermochemical equilibrium and stability are discussed in the context of modern nonlinear dynamical systems theory The first half focuses on time dependent spatially homogeneous reaction while the second half considers effects of spatially inhomogeneous advection and diffusion on the reaction dynamics Attention is focused on systems with realistic detailed chemical kinetics as well as simplified kinetics Many mathematical details are presented and several quantitative examples are given Topics include foundations of thermochemistry reduced kinetics reactive Navier Stokes equations reaction diffusion

systems laminar flame oscillatory combustion and detonation **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 Elliptic Partial Differential Equations Vitaly Volpert, 2014-05-10 If we had to formulate challenging problems in the field in one sentence what this book is about it might be How partial differential equations can help to understand heat explosion tumor growth or evolution of biological species These and many other applications are described by reaction diffusion equations The theory of reaction diffusion equations appeared in the first half of the last century In the present time it is widely used in population dynamics chemical physics biomedical modelling The purpose of this book is to present the mathematical theory of reaction diffusion equations in the context of their numerous applications. We will go from the general mathematical theory to specific equations and then to their applications Existence stability and bifurcations of solutions will be studied for bounded domains and in the case of travelling waves The classical theory of reaction diffusion equations and new topics such as nonlocal equations and multi scale models in biology will be considered Algorithms in Algebraic Geometry Alicia Dickenstein, Frank-Olaf Schreyer, Andrew J. Sommese, 2010-07-10 In the last decade there has been a burgeoning of activity in the design and implementation of algorithms for algebraic geometric computation. The workshop on Algorithms in Algebraic Geometry that was held in the framework of the IMA Annual Program Year in Applications of Algebraic Geometry by the Institute for Mathematics and Its Applications on September 2006 is one tangible indication of the interest This volume of articles captures some of the spirit of the IMA workshop Bifurcation: Analysis, Algorithms, Applications KÜPPER, SEYDEL, TROGER, 2013-03-08 The conference on BIFURCATIONS ANALYSIS ALGORITHMS APPLICATIONS took place in Dortmund in August 18 22 1986 More then 150 Scientists from 16 countries participated in the meeting among them mathematicians engi neers and physicists A broad spectrum of new results on bifurcation was covered by 49 talks The diversity of the range of treated topics and of involved fields inspired fruitful discussions 36 refereed papers are contained in these proceedings The subjects covered treat bifurcation problems ranging from theoretical investigations to numerical results with emphasis placed upon applications. The more theoretical papers include the topics symmetry breaking delay differential equations Cornu spirals homoclinic orbits and selfsimilarity Different kinds of bifurcations are treated Hopf bifurcation bifurcation from continuous spec trum complex bifurcation and bifurcation near tori Several numerical as pects are discussed among them continuation block elimination and spectral methods Algorithms are proposed for approximating manifolds calculating pe riodic solutions and handling multi parameter problems Ample space is devoted to applications Classical phenomena from fluid mechanics such as convection rolls and th Taylor vortex problem buckling and reaction diffusion pro blems are considered Other applications of bifurcations include railway vehicle dynamics computer graphics semiconductors drilling processes simu lation of oil reservoirs and rotor dynamics. The proceedings reflect current research in bifurcation They are an attempt to bring together researchers from differ nt disciplines to stimulate common effort towards a better understanding and handling of bifurcation pro blems Ouantitative Models for Microscopic to Macroscopic Biological Macromolecules and Tissues Luis Olivares-Quiroz, Osbaldo Resendis-Antonio, 2018-02-26 This book presents cutting edge research on the use of physical and mathematical formalisms to model and quantitatively analyze biological phenomena ranging from microscopic to macroscopic systems. The systems discussed in this compilation cover protein folding pathways gene regulation in prostate cancer guorum sensing in bacteria to mathematical and physical descriptions to analyze anomalous diffusion in patchy environments and the physical mechanisms that drive active motion in large sets of particles both fundamental descriptions that can be applied to different phenomena in biology All chapters are written by well known experts on their respective research fields with a vast amount of scientific discussion and references in order the interested reader can pursue a further reading Given these features we consider Quantitative Models for Microscopic to Macroscopic Biological Macromolecules and Tissues as an excellent and up to date resource and reference for advanced undergraduate students graduate students and junior researchers interested in the latest developments at the intersection of physics mathematics molecular biology and computational sciences Such research field without hesitation is one of the most interesting challenging and active of this century and the next **Spatial Dynamics and Pattern** Formation in Biological Populations Ranjit Kumar Upadhyay, Satteluri R. K. Iyengar, 2021-02-23 The book provides an introduction to deterministic and some stochastic modeling of spatiotemporal phenomena in ecology epidemiology and neural systems A survey of the classical models in the fields with up to date applications is given The book begins with detailed description of how spatial dynamics diffusive processes influence the dynamics of biological populations. These processes play a key role in understanding the outbreak and spread of pandemics which help us in designing the control strategies from the public health perspective A brief discussion on the functional mechanism of the brain single neuron models and network level with classical models of neuronal dynamics in space and time is given Relevant phenomena and existing modeling approaches in ecology epidemiology and neuroscience are introduced which provide examples of pattern formation in these models The analysis of patterns enables us to study the dynamics of macroscopic and microscopic behaviour of underlying systems and travelling wave type patterns observed in dispersive systems Moving on to virus dynamics authors present a detailed analysis of different types models of infectious diseases including two models for influenza five models for Ebola virus and seven models for Zika virus with diffusion and time delay A Chapter is devoted for the study of Brain Dynamics Neural systems in space and time Significant advances made in modeling the reaction diffusion systems are presented and spatiotemporal patterning in the systems is reviewed Development of appropriate mathematical models and detailed analysis

such as linear stability weakly nonlinear analysis bifurcation analysis control theory numerical simulation are presented Key Features Covers the fundamental concepts and mathematical skills required to analyse reaction diffusion models for biological populations Concepts are introduced in such a way that readers with a basic knowledge of differential equations and numerical methods can understand the analysis The results are also illustrated with figures Focuses on mathematical modeling and numerical simulations using basic conceptual and classic models of population dynamics Virus and Brain dynamics Covers wide range of models using spatial and non spatial approaches Covers single two and multispecies reaction diffusion models from ecology and models from bio chemistry Models are analysed for stability of equilibrium points Turing instability Hopf bifurcation and pattern formations Uses Mathematica for problem solving and MATLAB for pattern formations Contains solved Examples and Problems in Exercises The Book is suitable for advanced undergraduate graduate and research students For those who are working in the above areas it provides information from most of the recent works The text presents all the fundamental concepts and mathematical skills needed to build models and perform analyses

Mathematical Physiology James Keener, James Sneyd, 2010-06-04 Divided into two volumes the book begins with a pedagogical presentation of some of the basic theory with chapters on biochemical reactions diffusion excitability wave propagation and cellular homeostasis The second more extensive part discusses particular physiological systems with chapters on calcium dynamics bursting oscillations and secretion cardiac cells muscles intercellular communication the circulatory system the immune system wound healing the respiratory system the visual system hormone physiology renal physiology digestion the visual system and hearing New chapters on Calcium Dynamics Neuroendocrine Cells and Regulation of Cell Function have been included Reviews from first edition Keener and Sneyd's Mathematical Physiology is the first comprehensive text of its kind that deals exclusively with the interplay between mathematics and physiology Writing a book like this is an audacious act Society of Mathematical Biology Keener and Sneyd's is unique in that it attempts to present one of the most important subfields of biology and medicine physiology in terms of mathematical language rather than organizing materials around mathematical methodology SIAM review Modeling And Computations In Dynamical Systems: In Commemoration Of The 100th Anniversary Of The Birth Of John Von Neumann Eusebius Doedel, Gabor Domokos, Ioannis Kevrekidis, 2006-03-10 The Hungarian born mathematical genius John von Neumann was undoubtedly one of the greatest and most influential scientific minds of the 20th century Von Neumann made fundamental contributions to Computing and he had a keen interest in Dynamical Systems specifically Hydrodynamic Turbulence This book offering a state of the art collection of papers in computational dynamical systems is dedicated to the memory of von Neumann Including contributions from J E Marsden P J Holmes M Shub A Iserles M Dellnitz and J Guckenheimer this book offers a unique combination of theoretical and applied research in areas such as geometric integration neural networks linear programming dynamical astronomy chemical reaction models structural and fluid mechanics The contents of this book was also published as a special issue of

the International Journal of Bifurcation and Chaos March 2005 Proceedings of the International Conference on Bifurcation Theory and Its Numerical Analysis Kaitai Li,1989 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 **Mathematical Methods in Medical and** Biological Sciences Harendra Singh, Hari M Srivastava, 2024-11-05 Mathematical Methods in Medical and Biological Sciences presents mathematical methods for computational models arising in the medical and biological sciences The book presents several real life medical and biological models such as infectious and non infectious diseases that can be modeled mathematically to accomplish profound research in virtual environments when the cost of laboratory expenses is relatively high It focuses on mathematical techniques that provide global solutions for models arising in medical and biological sciences by considering their long term benefits In addition the book provides leading edge developments and insights for a range of applications including epidemiological modeling of pandemic dynamics viral infection developments cancer developments blood oxygen dynamics HIV infection spread reaction diffusion models polio infection spread and chaos modeling with fractional order derivatives Presents the mathematical treatment of a wide range of real life medical and biological models including both infectious and non infectious diseases Provides in depth analysis of the spread of Covid 19 polio and HIV including discussion of computational methods and applications Includes computational modeling methods along with their practical applications providing the basis for further exploration and research in epidemiology and applied biomedical Complex Systems Science in Biomedicine Thomas Deisboeck, J. Yasha Kresh, 2007-06-13 Complex Systems sciences Science in Biomedicine Thomas S Deisboeck and J Yasha Kresh Complex Systems Science in Biomedicine covers the emerging field of systems science involving the application of physics mathematics engineering and computational methods and techniques to the study of biomedicine including nonlinear dynamics at the molecular cellular multi cellular tissue and organismic level With all chapters helmed by leading scientists in the field Complex Systems Science in Biomedicine's goal is to offer its audience a timely compendium of the ongoing research directed to the understanding of biological processes as

whole systems instead of as isolated component parts In Parts I II Complex Systems Science in Biomedicine provides a general systems thinking perspective and presents some of the fundamental theoretical underpinnings of this rapidly emerging field Part III then follows with a multi scaled approach spanning from the molecular to macroscopic level exemplified by studying such diverse areas as molecular networks and developmental processes the immune and nervous systems the heart cancer and multi organ failure The volume concludes with Part IV that addresses methods and techniques driven in design and development by this new understanding of biomedical science Key Topics Include Historic Perspectives of General Systems Thinking Fundamental Methods and Techniques for Studying Complex Dynamical Systems Applications from Molecular Networks to Disease Processes Enabling Technologies for Exploration of Systems in the Life Sciences Complex Systems Science in Biomedicine is essential reading for experimental theoretical and interdisciplinary scientists working in the biomedical research field interested in a comprehensive overview of this rapidly emerging field About the Editors Thomas S Deisboeck is currently Assistant Professor of Radiology at Massachusetts General Hospital and Harvard Medical School in Boston An expert in interdisciplinary cancer modeling Dr Deisboeck is Director of the Complex Biosystems Modeling Laboratory which is part of the Harvard MIT Martinos Center for Biomedical Imaging J Yasha Kresh is currently Professor of Cardiothoracic Surgery and Research Director Professor of Medicine and Director of Cardiovascular Biophysics at the Drexel University College of Medicine An expert in dynamical systems he holds appointments in the School of Biomedical Engineering and Health Systems Dept of Mechanical Engineering and Molecular Pathobiology Program Prof Kresh is Fellow of the American College of Cardiology American Heart Association Biomedical Engineering Society American Institute for Medical and Biological Engineering **Reaction Kinetics: Exercises, Programs and Theorems** János Tóth, Attila László Nagy, Dávid Papp, 2018-09-18 Fifty years ago a new approach to reaction kinetics began to emerge one based on mathematical models of reaction kinetics or formal reaction kinetics. Since then there has been a rapid and accelerated development in both deterministic and stochastic kinetics primarily because mathematicians studying differential equations and algebraic geometry have taken an interest in the nonlinear differential equations of kinetics which are relatively simple yet capable of depicting complex behavior such as oscillation chaos and pattern formation. The development of stochastic models was triggered by the fact that novel methods made it possible to measure molecules individually Now it is high time to make the results of the last half century available to a larger audience students of chemistry chemical engineering and biochemistry not to mention applied mathematics Based on recent papers this book presents the most important concepts and results together with a wealth ofsolved exercises The book is accompanied by the authors Mathematica package ReactionKinetics which helps both students and scholars in their everyday work and which can be downloaded from http extras springer com and also from the authors websites Further the large set of unsolved problems provided may serve as a springboard for individual research

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