



# Bifurcation Analysis

**Dirk Roose, Bart De Dier, Alastair  
Spence**



## **Bifurcation Analysis:**

*Elements of Applied Bifurcation Theory* Yuri Kuznetsov, 2008-01-10 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

*Bifurcation Analysis* Michiel Hazewinkel, R. Jurkovich, J.H.P. Pealinck, 2012-12-06 Bifurcation theory has made a very fast upswing in the last fifteen years Roughly speaking it generalises to dynamic systems the possibility of multiple solutions a possibility already recognised in static systems physical chemical social when operating far from their equilibrium states It so happened that quite a few staff members of the Erasmus University Rotterdam were thinking along those lines about certain aspects of their disciplines To have a number of specialists and potential fans convene to discuss various aspects of bifurcation thinking seemed a natural development The resulting papers were judged to be of interest to a larger public and as such are logically regrouped in this volume one in a series of studies resulting from the activities of the Steering Committee on Interdisciplinary Studies of the Erasmus University Rotterdam Although the volume is perhaps multidisciplinary rather than interdisciplinary the interdisciplinary aspect being only latent as a soft interdisciplinary exercise the application of formal structures of one discipline to another it has a right to interdisciplinary existence This book could not have been published without a generous grant of the University Foundation of the Erasmus University Rotterdam which allowed the conference to be held and the resulting papers to be published that generosity is gratefully acknowledged

**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

**Numerical Bifurcation Analysis of Maps** Aleksandrovich Kuznetsov, 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

**Bifurcation Control** Guanrong Chen, David John Hill, Xinghuo Yu, 2003-08-26 Bifurcation control refers to the task of designing a controller that can modify the bifurcation properties of a given nonlinear system so as to achieve some desirable dynamical behaviors There exists no similar control theory oriented book available in the market that is devoted to the subject of bifurcation control written by control engineers for control engineers World renowned leading experts in the field provide their state of the art survey about the extensive research that has been done

over the last few years in this subject The book is not only aimed at active researchers in the field of bifurcation control and its applications but also at a general audience in related fields

### **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 than 150 Scientists from 16 countries participated in the meeting among them mathematicians engineers 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 spectrum complex bifurcation and bifurcation near tori Several numerical aspects are discussed among them continuation block elimination and spectral methods Algorithms are proposed for approximating manifolds calculating periodic solutions and handling multi parameter problems Ample space is devoted to applications Classical phenomena from fluid mechanics such as convection rolls and the Taylor vortex problem buckling and reaction diffusion problems are considered Other applications of bifurcations include railway vehicle dynamics computer graphics semiconductors drilling processes simulation of oil reservoirs and rotor dynamics The proceedings reflect current research in bifurcation They are an attempt to bring together researchers from different disciplines to stimulate common effort towards a better understanding and handling of bifurcation problems

Hopf Bifurcation Analysis: A Frequency Domain Approach Guanrong Chen,Jorge Luis Moiola,1996-04-09 This book is devoted to the frequency domain approach for both regular and degenerate Hopf bifurcation analyses Besides showing that the time and frequency domain approaches are in fact equivalent the fact that many significant results and computational formulas obtained in the studies of regular and degenerate Hopf bifurcations from the time domain approach can be translated and reformulated into the corresponding frequency domain setting and be reconfirmed and rediscovered by using the frequency domain methods is also explained The description of how the frequency domain approach can be used to obtain several types of standard bifurcation conditions for general nonlinear dynamical systems is given as well as is demonstrated a very rich pictorial gallery of local bifurcation diagrams for nonlinear systems under simultaneous variations of several system parameters In conjunction with this graphical analysis of local bifurcation diagrams the defining and nondegeneracy conditions for several degenerate Hopf bifurcations is presented With a great deal of algebraic computation some higher order harmonic balance approximation formulas are derived for analyzing the dynamical behavior in small neighborhoods of certain types of degenerate Hopf bifurcations that involve multiple limit cycles and multiple limit points of periodic solutions In addition applications in chemical mechanical and electrical engineering as well as in biology are discussed This book is designed and written in a

style of research monographs rather than classroom textbooks so that the most recent contributions to the field can be included with references

**Bifurcation Theory & Its Numerical Analysis** Zhangxin Chen, Shui-Nee Chow, Kaitai Li, 1999  
Bifurcation theory consists of two distinct aspects static and dynamic Static bifurcation theory deals with the changes that occur in the structure of the set of zeros of a function as parameters in the function are varied while the dynamic one is concerned with the changes that occur in the structure of the limit sets of solutions of differential equations as parameters in the vector field are varied Its extensive research and numerical analyses have been conducted in the past years This book contains eighteen refereed papers presented at the conference held in Xi an China June 29 July 3 1998 The papers cover recent development of a wide range of theoretical and numerical issues of bifurcation theory They also involve its applications to such important areas as fluid flows elasticity elastic plastic solids neuron transport robotics activator inhibitor modeling and biology

Methods of Bifurcation Theory Shui-Nee Chow, J. K. Hale, 1982 An alternative title for this book would perhaps be Nonlinear Analysis Bifurcation Theory and Differential Equations Our primary objective is to discuss those aspects of bifurcation theory which are particularly meaningful to differential equations To accomplish this objective and to make the book accessible to a wider we have presented in detail much of the relevant background audience material from nonlinear functional analysis and the qualitative theory of differential equations Since there is no good reference for some of the material its inclusion seemed necessary Two distinct aspects of bifurcation theory are discussed static and dynamic Static bifurcation theory is concerned with the changes that occur in the structure of the set of zeros of a function as parameters in the function are varied If the function is a gradient then variational techniques play an important role and can be employed effectively even for global problems If the function is not a gradient or if more detailed information is desired the general theory is usually local At the same time the theory is constructive and valid when several independent parameters appear in the function In differential equations the equilibrium solutions are the zeros of the vector field Therefore methods in static bifurcation theory are directly applicable

**Elements of Applied Bifurcation Theory** Yuri Kuznetsov, 2004-06-29 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 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

**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

**Bifurcation** Tassilo Küpper,Rüdiger Seydel,Hans Troger,1987      **Complexity in Biological and Physical Systems** Ricardo Lopez-Ruiz,2018-05-02 Modeling and simulating biological and physical systems are nowadays active branches of science The diversity and complexity of behaviors and patterns present in the natural world have their reciprocity in life systems Bifurcations solitons and fractals are some of these ubiquitous structures that can be indistinctively identified in many models with the most diverse applications from microtubules with an essential role in the maintenance and the shaping of cells to the nano microscale structure in disordered systems determined with small angle scattering techniques This book collects several works in this direction giving an overview of some models and theories which are useful for the study and analysis of complex biological and physical systems It can provide a good guidance for physicists with interest in biology applied research scientists and postgraduate students      Topics in Bifurcation Theory and Applications Gérard Iooss,Moritz Adelmeyer,1992-05-26 This textbook presents modern techniques of local bifurcation theory of vector fields The first part reviews the Center Manifold theory and introduces a constructive approach of Normal Forms with many examples Basic bifurcations as saddle node pitchfork and Hopf are studied together with bifurcations in the presence of symmetries Special attention is given to examples with reversible vector fields The second part deals with the Couette Taylor hydrodynamical instability problem between concentric rotating cylinders when the rotation rates are varied Primary bifurcations to Taylor vortex flow Spirals and Ribbons are studied and secondary bifurcations are presented as illustrations of bifurcations from group orbits of solutions The third part analyses bifurcations from periodic solutions i e perturbations of an autonomous vector field having a closed orbit Same tools are used and studies of period doubling as well as Arnold s resonance tongues are included      **Bifurcation, Symmetry and Patterns** Jorge Buescu,Paulo M.S.T. de Castro,Ana Paula Dias,Isabel S. Labouriau,2012-12-06 This book represents the latest developments on both the theory and applications of bifurcations with symmetry It includes recent experimental work as well as new approaches to and applications of the theory to other sciences It shows the range of dissemination of the work of Martin Golubitsky and Ian Stewart and its influence in modern mathematics at the same time as it contains work of young mathematicians in new directions The range of topics includes mathematical biology pattern formation ergodic theory normal forms one dimensional dynamics and symmetric dynamics

**IUTAM Symposium on New Applications of Nonlinear and Chaotic Dynamics in Mechanics** Francis C.

Moon,2012-12-06 It is two decades since Mitchell Feigenbaum's landmark papers on period doubling and the modern beginnings of what is now called Chaos Theory. From the very beginning, mechanics has been a central focus for modern nonlinear dynamical systems. Fluid, structural, machine, and rigid body dynamics has been a fertile field for nonlinear phenomena and chaos. In particular, early experimental evidence for chaotic phenomena in mechanics gave the new chaos theory a mark of credibility, importance, and relevance that its earlier sister field, catastrophe theory, did not achieve. The fact that mechanics straddles both physics and engineering also meant that mechanics became a pathway for direct application of chaos theory to applied problems. So what is new in nonlinear dynamics and mechanics today? First, the scope of applications in solid mechanics has broadened to cover material processing, inelasticity, and fracture mechanics. In rigid body dynamics, more complex systems such as vehicles, robotics, and controlled machines have come into the purview of nonlinear dynamicists. On the mathematics side of nonlinear dynamics, it is now recognized that spatio-temporal problems, hysteretic, and time delay problems are the new frontiers in this field. Also, the term complexity has been added to the lexicon of chaos theory to describe the dynamics of many interacting sub-systems which can exhibit self-organization and evolution. Complexity analysis has gained a foothold in biological and some social sciences, as well as in fluid and chemical physics.

*Introduction to System Dynamics* Rohit Sabharwal,2025-02-20 Introduction to System Dynamics is an insightful guide to understanding complex systems such as businesses and ecosystems. We explore how these systems function, focusing on feedback loops, time delays, and non-linear relationships. We provide a systematic approach to analyzing these intricate systems using causal loop diagrams and stock and flow diagrams, helping readers visualize the interactions between different system components. Written clearly and supported by real-world examples, this book is valuable for both beginners and experienced professionals. We emphasize the importance of considering the entire system rather than just individual parts to find better solutions to problems. System dynamics is applicable in various areas, including business, government, and healthcare. By understanding these complex systems, we can make informed decisions about critical issues. Introduction to System Dynamics remains a classic resource, equipping readers with the tools they need to understand and manage the complex world around them.

**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 scenarios 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.

*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 Krakow, 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 investigation and efficient 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 computational grids and next generation computing systems tools advanced numerical methods data driven systems and novel application fields such as complex systems nanotechnology economics physics and population evolution

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