

Nonlinear Oscillations Dynamical Systems And Bifurcations

Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields Discrete Dynamical Systems, Bifurcations and Chaos in Economics Bifurcation Theory And Methods Of Dynamical Systems Dynamical Systems V Bifurcation Theory and Methods of Dynamical Systems Dynamical Systems V Dynamical Systems V Nonlinear Oscillations, Dynamical Systems and Bifurcations of Vector Fields Bifurcation Theory of Impulsive Dynamical Systems Dynamical Systems, Bifurcation Analysis and Applications Dynamics and Bifurcations of Non-Smooth Mechanical Systems Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields Bifurcations And Chaos In Piecewise-smooth Dynamical Systems: Applications To Power Converters, Relay And Pulse-width Modulated Control Systems, And Human Decision-making Behavior Elements of Applied Bifurcation Theory Bifurcations In Piecewise-smooth Continuous Systems Methods In Equivariant Bifurcations And Dynamical Systems Elements of Applied Bifurcation Theory Dynamical Systems and Bifurcations Bifurcation and Chaos in Complex Systems Bifurcation and Chaos in Discontinuous and Continuous Systems John Guckenheimer Wei-Bin Zhang Maoan Han V.I. Arnold Dingjun Luo V.I. Arnold V.I. Arnold John M. Guckenheimer Kevin E.M. Church Mohd Hafiz Mohd Remco I. Leine John Guckenheimer Zhanybai T Zhusubaliyev Yuri A. Kuznetsov David John Warwick Simpson Pascal Chossat Yuri Kuznetsov Boele Braaksma Michal Fečkan

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from the reviews this book is concerned with the application of methods from dynamical systems and bifurcation theories to the study of nonlinear oscillations chapter 1 provides a review of basic results in the theory of dynamical systems covering both ordinary differential equations and discrete mappings chapter 2 presents 4 examples from nonlinear oscillations chapter 3 contains a discussion of the methods of local bifurcation theory for flows and maps including center manifolds and normal forms chapter 4 develops analytical methods of averaging and perturbation theory close analysis of geometrically defined two dimensional maps with complicated invariant sets is discussed in chapter 5 chapter 6 covers global homoclinic and heteroclinic bifurcations the final chapter shows how the global bifurcations reappear in degenerate local bifurcations and ends with several more models of physical problems which display these behaviors book review engineering societies library new york 1 an attempt to make research tools concerning strange attractors developed in the last 20 years available to applied scientists and to make clear to research mathematicians the needs in applied works emphasis on geometric and topological solutions of differential equations applications mainly drawn from nonlinear oscillations american mathematical monthly 2

this book is a unique blend of difference equations theory and its exciting applications to economics it deals with not only theory of linear and linearized difference equations but also nonlinear dynamical systems which have been widely applied to economic analysis in recent years it studies most important concepts and theorems in difference equations theory in a way that can be understood by anyone who has basic knowledge of calculus and linear algebra it contains well known applications and many recent developments in different fields of economics the book also simulates many models to illustrate paths of economic dynamics a unique book concentrated on theory of discrete dynamical systems and its traditional as well as advanced applications to economics mathematical definitions and theorems are introduced in a systematic and easily accessible way examples are from almost all fields of economics technically proceeding from basic to advanced topics lively illustrations with numerous figures numerous simulation to see paths of economic dynamics comprehensive treatment of the subject with a comprehensive and easily accessible approach

dynamical bifurcation theory is concerned with the changes that occur in the global structure of dynamical systems as parameters are varied this book makes recent research in bifurcation theory of dynamical systems accessible to researchers interested in this subject in particular the relevant results obtained by chinese mathematicians are introduced as well as some of the works of the authors which may not be widely known the focus is on the analytic approach to the theory and methods of bifurcations the book prepares graduate students for further study in this area and it serves as a ready reference for researchers in nonlinear sciences and applied mathematics

bifurcation theory and catastrophe theory are two well known areas within the field of dynamical systems both are studies of smooth systems focusing on properties that seem to be manifestly non smooth bifurcation theory is concerned with the sudden changes that occur in a system when one or more parameters are varied examples of such are familiar to students of differential equations from phase portraits understanding the bifurcations of the differential equations that describe real physical systems provides important information about the behavior of the systems catastrophe theory became quite famous during the 1970 s mostly because of the sensation caused by the usually less than rigorous applications of its principal ideas to hot topics such as the characterization of personalities and the difference between a genius and a maniac catastrophe theory is accurately described as singularity theory and its genuine applications the authors of this book previously published as volume 5 of the encyclopaedia have given a masterly exposition of these two theories with penetrating insight

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this monograph presents the most recent progress in bifurcation theory of impulsive dynamical systems with time delays and other functional dependence it covers not only smooth local bifurcations but also some non smooth bifurcation phenomena that are unique to impulsive dynamical systems the monograph is split into four distinct parts independently addressing both finite and infinite dimensional dynamical systems before discussing their applications the primary contributions are a rigorous nonautonomous dynamical systems framework and analysis of nonlinear systems stability and invariant manifold theory special attention is paid to the centre manifold and associated reduction principle as these are essential to the local bifurcation theory specifying to periodic systems the floquet theory is extended to impulsive functional differential equations and this permits an exploration of the impulsive analogues of saddle node transcritical pitchfork and hopf bifurcations readers will learn how techniques of classical bifurcation theory extend to impulsive functional differential equations and as a special case impulsive differential equations without delays they will learn about stability for fixed points periodic orbits and complete bounded trajectories and how the linearization of the dynamical system allows for a suitable definition of hyperbolicity they will see how to complete a centre manifold reduction and analyze a bifurcation at a nonhyperbolic steady state

this book is the result of southeast asian mathematical society seams school 2018 on dynamical systems and bifurcation analysis dysba it addresses the latest developments in the field of dynamical systems and highlights the importance of numerical continuation studies in tracking both stable and unstable steady states and bifurcation points to gain better understanding of the dynamics of the systems the seams school 2018 on dysba was held in penang from 6th to 13th august at the school of mathematical sciences universiti sains malaysia the seams schools are part of series of intensive study programs that aim to provide opportunities for an advanced learning experience in mathematics via planned lectures contributed talks and hands on workshop this book will appeal to those postgraduates lecturers and researchers working in the field of dynamical systems and their applications senior undergraduates in mathematics will also find it useful

this monograph combines the knowledge of both the field of nonlinear dynamics and non smooth mechanics presenting a framework for a class of non smooth mechanical systems using techniques from both fields the book reviews recent developments and opens the field

to the nonlinear dynamics community this book addresses researchers and graduate students in engineering and mathematics interested in the modelling simulation and dynamics of non smooth systems and nonlinear dynamics

technical problems often lead to differential equations with piecewise smooth right hand sides problems in mechanical engineering for instance violate the requirements of smoothness if they involve collisions finite clearances or stick slip phenomena systems of this type can display a large variety of complicated bifurcation scenarios that still lack a detailed description this book presents some of the fascinating new phenomena that one can observe in piecewise smooth dynamical systems the practical significance of these phenomena is demonstrated through a series of well documented and realistic applications to switching power converters relay systems and different types of pulse width modulated control systems other examples are derived from mechanical engineering digital electronics and economic business cycle theory the topics considered in the book include abrupt transitions associated with modified period doubling saddle node and hopf bifurcations the interplay between classical bifurcations and border collision bifurcations truncated bifurcation scenarios period tripling and quadrupling bifurcations multiple choice bifurcations new types of direct transitions to chaos and torus destruction in nonsmooth systems in spite of its orientation towards engineering problems the book addresses theoretical and numerical problems in sufficient detail to be of interest to nonlinear scientists in general

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

real world systems that involve some non smooth change are often well modeled by piecewise smooth systems however there still remain many gaps in the mathematical theory of such systems this doctoral thesis presents new results regarding bifurcations of piecewise smooth continuous autonomous systems of ordinary differential equations and maps various codimension two discontinuity induced bifurcations are unfolded in a rigorous manner several of these unfoldings are applied to a mathematical model of the growth of *saccharomyces cerevisiae* a common yeast the nature of resonance near border collision bifurcations is described in particular the curious geometry of resonance tongues in piecewise smooth continuous maps is explained in detail neimark sacker like border collision bifurcations are both numerically and theoretically investigated a comprehensive background section is conveniently provided for those

with little or no experience in piecewise smooth systems

this invaluable book presents a comprehensive introduction to bifurcation theory in the presence of symmetry an applied mathematical topic which has developed considerably over the past twenty years and has been very successful in analysing and predicting pattern formation and other critical phenomena in most areas of science where nonlinear models are involved like fluid flow instabilities chemical waves elasticity and population dynamics the book has two aims one is to expound the mathematical methods of equivariant bifurcation theory beyond the classical bifurcation tools such as center manifold and normal form reductions the presence of symmetry requires the introduction of the algebraic and geometric formalism of lie group theory and transformation group methods for the first time all these methods in equivariant bifurcations are presented in a coherent and self consistent way in a book the other aim is to present the most recent ideas and results in this theory in relation to applications this includes bifurcations of relative equilibria and relative periodic orbits for compact and noncompact group actions heteroclinic cycles and forced symmetry breaking perturbations although not all recent contributions could be included and a choice had to be made a rather complete description of these new developments is provided at the end of every chapter exercises are offered to the reader

the years that have passed since the publication of the first edition of this book proved that the basic principles used to select and present the material made sense the idea was to write a simple text that could serve as a serious introduction to the subject of course the meaning of simplicity varies from person to person and from country to country the word introduction contains even more ambiguity to start reading this book only a moderate knowledge of linear algebra and calculus is required other preliminaries qualified as elementary in modern mathematics are explicitly formulated in the book these include the fredholm alternative for linear systems and the multidimensional implicit function theorem using these very limited tools a framework of notions results and methods is gradually built that allows one to read and possibly write scientific papers on bifurcations of nonlinear dynamical systems among other things progress in the sciences means that mathematical results and methods that once were new become standard and routinely used by the research and development community hopefully this edition of the book will contribute to this process the book's structure has been kept intact most of the changes introduced reflect recent theoretical and software developments in which the author was involved important changes in the third edition can be summarized as follows a new section devoted to the fold flip bifurcation for maps has appeared in chapter 9

the book presents the recent achievements on bifurcation studies of nonlinear dynamical systems the contributing authors of the book are all distinguished researchers in this interesting subject area the first two chapters deal with the fundamental theoretical issues of bifurcation analysis in smooth and non smooth dynamical systems the cell mapping methods are presented for global bifurcations in

stochastic and deterministic nonlinear dynamical systems in the third chapter the fourth chapter studies bifurcations and chaos in time varying parametrically excited nonlinear dynamical systems the fifth chapter presents bifurcation analyses of modal interactions in distributed nonlinear dynamical systems of circular thin von karman plates the theories methods and results presented in this book are of great interest to scientists and engineers in a wide range of disciplines this book can be adopted as references for mathematicians scientists engineers and graduate students conducting research in nonlinear dynamical systems new views for difficult problems novel ideas and concepts hilbert s 16th problem normal forms in polynomial hamiltonian systems grazing flow in non smooth dynamical systems stochastic and fuzzy nonlinear dynamical systems fuzzy bifurcation parametrical nonlinear systems mode interactions in nonlinear dynamical systems

bifurcation and chaos in discontinuous and continuous systems provides rigorous mathematical functional analytical tools for handling chaotic bifurcations along with precise and complete proofs together with concrete applications presented by many stimulating and illustrating examples a broad variety of nonlinear problems are studied involving difference equations ordinary and partial differential equations differential equations with impulses piecewise smooth differential equations differential and difference inclusions and differential equations on infinite lattices as well this book is intended for mathematicians physicists theoretically inclined engineers and postgraduate students either studying oscillations of nonlinear mechanical systems or investigating vibrations of strings and beams and electrical circuits by applying the modern theory of bifurcation methods in dynamical systems dr michal fečkan is a professor at the department of mathematical analysis and numerical mathematics on the faculty of mathematics physics and informatics at the comenius university in bratislava slovakia he is working on nonlinear functional analysis bifurcation theory and dynamical systems with applications to mechanics and vibrations

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