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Local Bifurcations, Center Manifolds, and Normal Forms in Infinite- Dimensional Dynamical Systems



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Local Bifurcations, Center Manifolds, and Normal Forms in Infinite-Dimensional Dynamical Systems Mariana Haragus, Gérard Iooss, 2010-12-08 An extension of different lectures given by the authors *Local Bifurcations Center Manifolds and Normal Forms in Infinite Dimensional Dynamical Systems* provides the reader with a comprehensive overview of these topics Starting with the simplest bifurcation problems arising for ordinary differential equations in one and two dimensions this book describes several tools from the theory of infinite dimensional dynamical systems allowing the reader to treat more complicated bifurcation problems such as bifurcations arising in partial differential equations Attention is restricted to the study of local bifurcations with a focus upon the center manifold reduction and the normal form theory two methods that have been widely used during the last decades Through use of step by step examples and exercises a number of possible applications are illustrated and allow the less familiar reader to use this reduction method by checking some clear assumptions Written by recognised experts in the field of center manifold and normal form theory this book provides a much needed graduate level text on bifurcation theory center manifolds and normal form theory It will appeal to graduate students and researchers working in dynamical system theory

Local Bifurcations, Center Manifolds, and Normal Forms in Infinite-Dimensional Dynamical Systems Mariana Haragus, Gérard Iooss, 2010-11-23 An extension of different lectures given by the authors *Local Bifurcations Center Manifolds and Normal Forms in Infinite Dimensional Dynamical Systems* provides the reader with a comprehensive overview of these topics Starting with the simplest bifurcation problems arising for ordinary differential equations in one and two dimensions this book describes several tools from the theory of infinite dimensional dynamical systems allowing the reader to treat more complicated bifurcation problems such as bifurcations arising in partial differential equations Attention is restricted to the study of local bifurcations with a focus upon the center manifold reduction and the normal form theory two methods that have been widely used during the last decades Through use of step by step examples and exercises a number of possible applications are illustrated and allow the less familiar reader to use this reduction method by checking some clear assumptions Written by recognised experts in the field of center manifold and normal form theory this book provides a much needed graduate level text on bifurcation theory center manifolds and normal form theory It will appeal to graduate students and researchers working in dynamical system theory

Theory, Numerics and Applications of Hyperbolic Problems II Christian Klingenberg, Michael Westdickenberg, 2018-06-27 The second of two volumes this edited proceedings book features research presented at the XVI International Conference on Hyperbolic Problems held in Aachen Germany in summer 2016 It focuses on the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models PDEs of mixed type kinetic equations nonlocal or and discrete models found in the field of applied sciences

Stochastic Parameterizing Manifolds and Non-Markovian Reduced Equations Mickaël D. Chekroun, Honghu

Liu, Shouhong Wang, 2014-12-23 In this second volume a general approach is developed to provide approximate parameterizations of the small scales by the large ones for a broad class of stochastic partial differential equations SPDEs This is accomplished via the concept of parameterizing manifolds PMs which are stochastic manifolds that improve for a given realization of the noise in mean square error the partial knowledge of the full SPDE solution when compared to its projection onto some resolved modes Backward forward systems are designed to give access to such PMs in practice The key idea consists of representing the modes with high wave numbers as a pullback limit depending on the time history of the modes with low wave numbers Non Markovian stochastic reduced systems are then derived based on such a PM approach The reduced systems take the form of stochastic differential equations involving random coefficients that convey memory effects The theory is illustrated on a stochastic Burgers type equation Recent Trends in Dynamical Systems Andreas Johann, Hans-Peter Kruse, Florian Rupp, Stephan Schmitz, 2013-09-24 This book presents the proceedings of a conference on dynamical systems held in honor of Jürgen Scheurle in January 2012 Through both original research papers and survey articles leading experts in the field offer overviews of the current state of the theory and its applications to mechanics and physics In particular the following aspects of the theory of dynamical systems are covered Stability and bifurcation Geometric mechanics and control theory Invariant manifolds attractors and chaos Fluid mechanics and elasticity Perturbations and multiscale problems Hamiltonian dynamics and KAM theory Researchers and graduate students in dynamical systems and related fields including engineering will benefit from the articles presented in this volume **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 *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

Nonlinear Optical Cavity Dynamics Philippe Grelu, 2015-12-14 By recirculating light in a nonlinear propagation medium the nonlinear optical cavity allows for countless options of light transformation and manipulation In passive media optical bistability and frequency conversion are central figures In active media laser light can be generated with versatile underlying dynamics Emphasizing on ultrafast dynamics the vital arena for the information technology the soliton is a common conceptual keyword thriving into its modern developments with the closely related denominations of dissipative solitons and cavity solitons Recent technological breakthroughs in optical cavities from micro resonators to ultra long fiber cavities have entitled the exploration of nonlinear optical dynamics over unprecedented spatial and temporal orders of magnitude By gathering key contributions by renowned experts this book aims at bridging the gap between recent research topics with a view to foster cross fertilization between research areas and stimulating creative optical engineering design

Complexity Science: An Introduction Mark A Peletier, Rutger A Van Santen, Erik Steur, 2019-03-20 This book on complexity science comprises a collection of chapters on methods and principles from a wide variety of disciplinary fields from physics and chemistry to biology and the social sciences In this two part volume the first part is a collection of chapters introducing different aspects in a coherent fashion and providing a common basis and the founding principles of the different complexity science approaches the next provides deeper discussions of the different methods of use in complexity science with interesting illustrative applications The fundamental topics deal with self organization pattern formation forecasting uncertainties synchronization and revolutionary change self adapting and self correcting systems and complex networks Examples are taken from biology chemistry engineering epidemiology robotics economics sociology and neurology

Approximation of Stochastic Invariant Manifolds Mickaël D. Chekroun, Honghu Liu, Shouhong Wang, 2014-12-20 This first volume is concerned with the analytic derivation of explicit formulas for the leading order Taylor approximations of local stochastic invariant manifolds associated with a broad class of nonlinear stochastic partial differential equations These approximations take the form of Lyapunov Perron integrals which are further characterized in Volume II as pullback limits associated with some partially coupled backward forward systems This pullback characterization provides a useful interpretation of the corresponding approximating manifolds and leads to a simple framework that unifies some other approximation approaches in the literature A self contained survey is also included on the existence and attraction of one parameter families of stochastic invariant manifolds from the point of view of the theory of random dynamical systems

Bifurcation Theory Ale Jan Homburg, Jürgen Knobloch, 2024-12-02 This textbook provides a thorough overview of bifurcation theory Assuming some familiarity with differential equations and dynamical systems it is suitable for use on advanced undergraduate and graduate

level and can in particular be used for a graduate course on bifurcation theory The book combines a solid theoretical basis with a detailed description of classical bifurcations It is organized in chapters on local nonlocal and global bifurcations a number of appendices develop the toolbox for the study of bifurcations The discussed local bifurcations include saddle node and Hopf bifurcations as well as the more advanced Bogdanov Takens and Neimark Sacker bifurcations The book also covers nonlocal bifurcations discussing various homoclinic bifurcations and it surveys global bifurcations and phenomena such as intermittency and period doubling cascades The book develops a broad range of complementary techniques both geometric and analytic for studying bifurcations Techniques include normal form methods center manifold reductions the Lyapunov Schmidt construction cross coordinate constructions Melnikov's method and Lin's method Full proofs of the results are provided also for the material in the appendices This includes proofs of the stable manifold theorem of the center manifold theorem and of Lin's method for studying homoclinic bifurcations

Topics in Multiple Time Scale Dynamics

Maximilian Engel, Hildeberto Jardón-Kojakhmetov, Cinzia Soresina, 2024-10-21 This volume contains the proceedings of the BIRS Workshop Topics in Multiple Time Scale Dynamics held from November 27 December 2 2022 at the Banff International Research Station Banff Alberta Canada The area of multiple scale dynamics is rapidly evolving marked by significant theoretical breakthroughs and practical applications The workshop facilitated a convergence of experts from various sub disciplines encompassing topics like blow up techniques for ordinary differential equations ODEs singular perturbation theory for stochastic differential equations SDE homogenization and averaging slow fast maps numerical approaches and network dynamics including their applications in neuroscience and climate science This volume provides a wide ranging perspective on the current challenging subjects being explored in the field including themes such as novel approaches to blowing up and canard theory in unique contexts complex multi scale challenges in PDEs and the role of stochasticity in multiple scale systems

Instabilités Et Bifurcations En Mécanique

Charru, Iooss, Léger, 2018-07-10 Ce troisième livre de la collection Mécanique Thorique porte sur les instabilités et bifurcations en mécanique En mécanique des solides l'étude de l'équilibre des pièces comprimées a révélé au XVIII^e siècle qu'une tige lastique pourtant chargée suivant son axe pouvait fléchir brutalement La dynamique des fluides a également fasciné physiciens et mathématiciens qui ont par exemple dès le XIX^e siècle essayé de comprendre l'apparition des vagues à la surface de l'eau Mais c'est essentiellement au XX^e siècle qu'ont été développés les fondements mécaniques et mathématiques de ces solutions désormais dites bifurquées pour marquer qu'existent simultanément c'est à dire pour les mêmes valeurs des paramètres d'autres solutions alors dites triviales ou fondamentales que l'on n'observe pas en général pour des raisons de stabilité Ce livre s'attache à présenter des éléments de la théorie des bifurcations avant de les décliner dans deux grands domaines d'application en mécanique L'ouvrage est divisé en trois grandes parties la théorie locale des bifurcations présentée par ses concepts et outils généraux la mécanique des fluides présentée par une introduction aux instabilités hydrodynamiques La mécanique des solides présentée par les bifurcations en mécanique des structures Plus

cis ment La th orie g n rale est expos e d abord en dimension finie petite ce qui permet d introduire les principaux outils d analyse que sont les vari t s centrales et les formes normales L extension la dimension infinie requise par la m canique des milieux continus est ensuite discut e L aspect didactique et auto suffisant de l expos est renforc par un appendice d taill d analyse fonctionnelle qui de fait vaut pour l ensemble de l ouvrage

Smooth Invariant Manifolds and Normal Forms I. U. Bronshte?n,A. Ya Kopanskii,1994 This book deals with the qualitative theory of dynamical systems and is devoted to the study of flows and cascades in the vicinity of a smooth invariant manifold Its main purpose is to present as completely as possible the basic results concerning the existence of stable and unstable local manifolds and the recent advancements in the theory of finitely smooth normal forms of vector fields and diffeomorphisms in the vicinity of a rest point and a periodic trajectory A summary of the results obtained so far in the investigation of dynamical systems near an arbitrary invariant submanifold is also given

Local and Semi-Local Bifurcations in Hamiltonian Dynamical Systems Heinz Hanßmann,2007 Once again KAM theory is committed in the context of nearly integrable Hamiltonian systems While elliptic and hyperbolic tori determine the distribution of maximal invariant tori they themselves form n parameter families Hence without the need for untypical conditions or external parameters torus bifurcations of high co dimension may be found in a single given Hamiltonian system The text moves gradually from the integrable case in which symmetries allow for reduction to bifurcating equilibria to non integrability where smooth parametrisations have to be replaced by Cantor sets Planar singularities and their versal unfoldings are an important ingredient that helps to explain the underlying dynamics in a transparent way

Applications of Centre Manifold Theory J. Carr,2012-12-06 These notes are based on a series of lectures given in the Lefschetz Center for Dynamical Systems in the Division of Applied Mathematics at Brown University during the academic year 1978 79 The purpose of the lectures was to give an introduction to the applications of centre manifold theory to differential equations Most of the material is presented in an informal fashion by means of worked examples in the hope that this clarifies the use of centre manifold theory The main application of centre manifold theory given in these notes is to dynamic bifurcation theory Dynamic bifurcation theory is concerned with topological changes in the nature of the solutions of differential equations as para meters are varied Such an example is the creation of periodic orbits from an equilibrium point as a parameter crosses a critical value In certain circumstances the application of centre manifold theory reduces the dimension of the system under investigation In this respect the centre manifold theory plays the same role for dynamic problems as the Liapunov Schmitt procedure plays for the analysis of static solutions Our use of centre manifold theory in bifurcation problems follows that of Ruelle and Takens 57 and of Marsden and McCracken 51

Center Manifolds for Semilinear Equations with Non-Dense Domain and Applications to Hopf Bifurcation in Age Structured Models Pierre Magal,Shigui Ruan,2009 Several types of differential equations such as delay differential equations age structure models in population dynamics evolution equations with boundary conditions can be written as

semilinear Cauchy problems with an operator which is not densely defined in its domain The goal of this paper is to develop a center manifold theory for semilinear Cauchy problems with non dense domain Using Liapunov Perron method and following the techniques of Vanderbauwhede et al in treating infinite dimensional systems the authors study the existence and smoothness of center manifolds for semilinear Cauchy problems with non dense domain As an application they use the center manifold theorem to establish a Hopf bifurcation theorem for age structured models **Center manifolds, normal forms and elementary bifurcations** A. Vanderbauwhede,1985 Applications of Centre Manifold Theory Jack Carr,1981

Existence and Persistence of Invariant Manifolds for Semiflows in Banach Space Peter W. Bates,Kening Lu,Chongchun Zeng,1998 Extends the theory for normally hyperbolic invariant manifolds to infinite dimensional dynamical systems in a Banach space thereby providing tools for the study of PDE s and other infinite dimensional equations of evolution In the process the authors establish the existence of center unstable and center stable manifolds in a neighborhood of the unperturbed compact manifold No index Annotation copyrighted by Book News Inc Portland OR

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