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Stephen Wiggins

Normally Hyperbolic Invariant Manifolds in Dynamical Systems



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Normally Hyperbolic Invariant Manifolds In Dynamical Systems Applied Mathematical Sciences

Charles Li, Stephen Wiggins



Normally Hyperbolic Invariant Manifolds In Dynamical Systems Applied Mathematical Sciences:

Normally Hyperbolic Invariant Manifolds in Dynamical Systems Stephen Wiggins, 1994-06-10 In the past ten years there has been much progress in understanding the global dynamics of systems with several degrees of freedom An important tool in these studies has been the theory of normally hyperbolic invariant manifolds and foliations of normally hyperbolic invariant manifolds In recent years these techniques have been used for the development of global perturbation methods the study of resonance phenomena in coupled oscillators geometric singular perturbation theory and the study of bursting phenomena in biological oscillators Invariant manifold theorems have become standard tools for applied mathematicians physicists engineers and virtually anyone working on nonlinear problems from a geometric viewpoint In this book the author gives a self contained development of these ideas as well as proofs of the main theorems along the lines of the seminal works of Fenichel In general the Fenichel theory is very valuable for many applications but it is not easy for people to get into from existing literature This book provides an excellent avenue to that Wiggins also describes a variety of settings where these techniques can be used in applications

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Normally Hyperbolic Invariant Manifolds Jaap Eldering, 2013-08-17 This monograph treats normally hyperbolic invariant manifolds with a focus on noncompactness These objects generalize hyperbolic fixed points and are ubiquitous in dynamical systems First normally hyperbolic invariant manifolds and their relation to hyperbolic fixed points and center manifolds as well as overviews of history and methods of proofs are presented Furthermore issues such as uniformity and bounded geometry arising due to noncompactness are discussed in great detail with examples The main new result shown is a proof of persistence for noncompact normally hyperbolic invariant manifolds in Riemannian manifolds of bounded geometry This extends well known results by Fenichel and Hirsch Pugh and Shub and is complementary to noncompactness results in Banach spaces by Bates Lu and Zeng Along the way some new results in bounded geometry are obtained and a framework is developed to analyze

ODEs in a differential geometric context Finally the main result is extended to time and parameter dependent systems and overflowing invariant manifolds

The Parameterization Method for Invariant Manifolds Àlex Haro,Marta

Canadell,Jordi-Lluis Figueras,Alejandro Luque,Josep Maria Mondelo,2016-04-18 This monograph presents some theoretical and computational aspects of the parameterization method for invariant manifolds focusing on the following contexts invariant manifolds associated with fixed points invariant tori in quasi periodically forced systems invariant tori in Hamiltonian systems and normally hyperbolic invariant manifolds This book provides algorithms of computation and some practical details of their implementation The methodology is illustrated with 12 detailed examples many of them well known in the literature of numerical computation in dynamical systems A public version of the software used for some of the examples is available online The book is aimed at mathematicians scientists and engineers interested in the theory and applications of computational dynamical systems

Invariant Manifolds and Fibrations for Perturbed Nonlinear Schrödinger Equations Charles Li,Stephen Wiggins,1997-10-23 In this monograph the authors present detailed and pedagogic proofs of persistence theorems for normally hyperbolic invariant manifolds and their stable and unstable manifolds for classes of perturbations of the NLS equation as well as for the existence and persistence of fibrations of these invariant manifolds Their techniques are based on an infinite dimensional generalisation of the graph transform and can be viewed as an infinite dimensional generalisation of Fenichel's results As such they may be applied to a broad class of infinite dimensional dynamical systems

Invariant Manifolds and Fibrations for Perturbed Nonlinear Schrödinger Equations Charles Li,Stephen Wiggins,2012-12-06 This book presents a development of invariant manifold theory for a specific canonical nonlinear wave system the perturbed nonlinear Schrödinger equation The main results fall into two parts The first part is concerned with the persistence and smoothness of locally invariant manifolds The second part is concerned with fibrations of the stable and unstable manifolds of inflowing and overflowing invariant manifolds The central technique for proving these results is Hadamard's graph transform method generalized to an infinite dimensional setting However our setting is somewhat different than other approaches to infinite dimensional invariant manifolds since for conservative wave equations many of the interesting invariant manifolds are infinite dimensional and noncompact The style of the book is that of providing very detailed proofs of theorems for a specific infinite dimensional dynamical system the perturbed nonlinear Schrödinger equation The book is organized as follows Chapter one gives an introduction which surveys the state of the art of invariant manifold theory for infinite dimensional dynamical systems Chapter two develops the general setup for the perturbed nonlinear Schrödinger equation Chapter three gives the proofs of the main results on persistence and smoothness of invariant manifolds Chapter four gives the proofs of the main results on persistence and smoothness of fibrations of invariant manifolds This book is an outgrowth of our work over the past nine years concerning homoclinic chaos in the perturbed nonlinear Schrödinger equation The theorems in this book provide key building blocks for much of that work

Partial Differential Equations Fritz John, 1991-11-20 This book is a very well accepted introduction to the subject In it the author identifies the significant aspects of the theory and explores them with a limited amount of machinery from mathematical analysis Now in this fourth edition the book has again been updated with an additional chapter on Lewy's example of a linear equation without solutions

Theory and Applications of Partial Functional Differential Equations Jianhong Wu, 2012-12-06 Abstract semilinear functional differential equations arise from many biological chemical and physical systems which are characterized by both spatial and temporal variables and exhibit various spatio temporal patterns The aim of this book is to provide an introduction of the qualitative theory and applications of these equations from the dynamical systems point of view The required prerequisites for that book are at a level of a graduate student The style of presentation will be appealing to people trained and interested in qualitative theory of ordinary and functional differential equations

Vorticity and Turbulence Alexandre J. Chorin, 2013-12-01 This book provides an introduction to the theory of turbulence in fluids based on the representation of the flow by means of its vorticity field It has long been understood that at least in the case of incompressible flow the vorticity representation is natural and physically transparent yet the development of a theory of turbulence in this representation has been slow The pioneering work of Onsager and of Joyce and Montgomery on the statistical mechanics of two dimensional vortex systems has only recently been put on a firm mathematical footing and the three dimensional theory remains in parts speculative and even controversial The first three chapters of the book contain a reasonably standard introduction to homogeneous turbulence the simplest case a quick review of fluid mechanics is followed by a summary of the appropriate Fourier theory more detailed than is customary in fluid mechanics and by a summary of Kolmogorov's theory of the inertial range slanted so as to dovetail with later vortex based arguments The possibility that the inertial spectrum is an equilibrium spectrum is raised

Weakly Connected Neural Networks Frank C. Hoppensteadt, Eugene M. Izhikevich, 2012-12-06 This book is devoted to an analysis of general weakly connected neural networks WCNNs that can be written in the form $\dot{x}_i = f_i(x_i) + \sum_{j=1}^n g_{ij} x_j$ Here each $x_i \in \mathbb{R}$ is a vector that summarizes all physiological attributes of the i th neuron n is the number of neurons f_i describes the dynamics of the i th neuron and g_{ij} describes the interactions between neurons The small parameter indicates the strength of connections between the neurons Weakly connected systems have attracted much attention since the second half of seventeenth century when Christian Huygens noticed that a pair of pendulum clocks synchronize when they are attached to a light weight beam instead of a wall The pair of clocks is among the first weakly connected systems to have been studied Systems of the form $\dot{x}_i = f_i(x_i) + \sum_{j=1}^n g_{ij} x_j$ arise in formal perturbation theories developed by Poincaré Liapunov and Malkin and in averaging theories developed by Bogoliubov and Mitropolsky

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