SMOOTH DYNAMICAL SYSTEMS

M. C. IRWIN

Smooth Dynamical Systems

D.V. Anosov,V.I. Arnold,S.Kh. Aranson,I.U. Bronshtein,V.Z. Grines,Yu.S. Ilyashenko

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a core mathematical discipline closely intertwined with most of the main areas of mathematics The authors introduce and rigorously develop the theory while providing researchers interested in applications with fundamental tools and paradigms The book begins with a discussion of several elementary but fundamental examples These are used to formulate a program for the general study of asymptotic properties and to introduce the principal theoretical concepts and methods The main theme of the second part of the book is the interplay between local analysis near individual orbits and the global complexity of the orbit structure The third and fourth parts develop the theories of low dimensional dynamical systems and hyperbolic dynamical systems in depth Over 400 systematic exercises are included in the text The book is aimed at students and researchers in mathematics at all levels from advanced undergraduate up   <u>Bifurcations And Chaos In Piecewise-smooth Dynamical Systems: Applications To Power Converters, Relay And Pulse-width Modulated Control Systems, And Human Decision-making Behavior</u> Zhanybai T Zhusubaliyev,Erik Mosekilde,2003-06-25 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   **Non-smooth Dynamical Systems and Applications** Karin Mora,2013   *Bifurcations and Chaos in Piecewise-smooth Dynamical Systems* Zhanybai T. Zhusubaliyev,Erik Mosekilde,2003 Technical problems often lead to differential equations withpiecewise smooth right hand sides Problems in mechanicalengineering for instance violate the requirements of smoothness ifthey involve collisions finite clearances or stickOCoslipphenomena   *Dynamical Systems: General theory of vortices* ,1988   **Dynamical Systems: Ordinary differential equations and smooth dynamical systems** ,1988   <u>Generic Observability of Smooth Dynamical Systems</u> Esfandiar Nava Yazdani,2004   **Dynamical Systems: Ordinary differential equations and smooth dynamical systems** ,1987   *Dynamical Systems* ,1993   <u>Non-smooth Dynamical Systems, Theory and Applications</u> Mario Di Bernardo,A. R. Champneys,Martin Homer,2002   **Dynamical Systems I** D.V. Anosov,V.I. Arnold,S.Kh. Aranson,I.U. Bronshtein,V.Z. Grines,Yu.S. Ilyashenko,1995-01-08

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