

SMOOTH DYNAMICAL SYSTEMS

ALAN ARNOLD

Smooth Dynamical Systems

Karin Mora



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Dynamical Systems: General theory of vortices, 1988 *Dynamical Systems: Ordinary differential equations and smooth dynamical systems*, 1988 **Introduction to the Modern Theory of Dynamical Systems** Anatole Katok, A. B. Katok, Boris Hasselblatt, 1995 This book provided the first self contained comprehensive exposition of the theory of dynamical systems as 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 *Dynamical Systems: Ordinary differential equations and smooth dynamical systems*, 1987 **Dynamical Systems**, 1993 *Bifurcations and Chaos in Piecewise-smooth Dynamical Systems* Zhanybai T. Zhusubaliyev, Erik Mosekilde, 2003 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 **Non-smooth Dynamical Systems and Applications** Karin Mora, 2013 **Dynamical Systems I** D.V. Anosov, V.I. Arnold, S.Kh. Aranson, I.U. Bronshtein, V.Z. Grines, Yu.S. Ilyashenko, 1995-01-08 From the reviews The reading is very easy and pleasant for the non mathematician which is really noteworthy The two chapters enunciate the basic principles of the field indicate

connections with other fields of mathematics and sketch the motivation behind the various concepts which are introduced. What is particularly pleasant is the fact that the authors are quite successful in giving to the reader the feeling behind the demonstrations which are sketched. Another point to notice is the existence of an annotated extended bibliography and a very complete index. This really enhances the value of this book and puts it at the level of a particularly interesting reference tool. I thus strongly recommend to buy this very interesting and stimulating book. *Journal de Physique* *Generic Observability of Smooth Dynamical Systems* Esfandiar Nava Yazdani, 2004 **Non-smooth Dynamical Systems, Theory and Applications** Mario Di Bernardo, A. R. Champneys, Martin Homer, 2002

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