

Markus Kunze

Non-Smooth Dynamical Systems

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Smooth Dynamical Systems

**S.Kh. Aranson, I.U. Bronshtein, V.Z.
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Piecewise-smooth Dynamical Systems Michael Charles Irwin, 2001

Dynamical Systems I S.Kh. Aranson, I.U. Bronshtein, V.Z. Grines, Yu.S. Ilyashenko, 1996-12-18 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*

An Introduction to the Theory of Smooth Dynamical Systems Wieslaw Szlenk, 1984

Non-Smooth Dynamical Systems Markus Kunze, 2007-05-06 The book provides a self contained introduction to the mathematical theory of non smooth dynamical problems as they frequently arise from mechanical systems with friction and or impacts It is aimed at applied mathematicians engineers and applied scientists in general who wish to learn the subject

Bifurcations And Chaos In Piecewise-smooth Dynamical Systems: Applications To Power Converters, Relay And Pulse-width Modulated Control Systems, And Human Decision-making Behavior 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 *An Introduction to the Theory of Smooth Dynamical Systems* W. Szlenk,1984 This book is aimed at readers who are familiar with a standard undergraduate course of mathematics It forms a short account of the main ideas and results in the theory of smooth dynamical systems **Dynamical Systems I** D.V. Anosov,V.I. Arnold,S.Kh. Aranson,I.U. Bronshtein,V.Z. Grines,Yu.S. Ilyashenko,1994-06-01 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* *Dynamical Systems I* D. V. Anosov,1988

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