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H.W. Broer, F. Dumortier,
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H.W. Broer, F. Dumortier, S.J. van Strien, F. Takens



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Structures in Dynamics H.W. Broer, F. Dumortier, S.J. van Strien, F. Takens, 1991-11-05 The study of non linear dynamical systems nowadays is an intricate mixture of analysis geometry algebra and measure theory and this book takes all aspects into account Presenting the contents of its authors graduate courses in non linear dynamical systems this volume aims at researchers who wish to be acquainted with the more theoretical and fundamental subjects in non linear dynamics and is designed to link the popular literature with research papers and monographs All of the subjects covered in this book are extensively dealt with and presented in a pedagogic form These include the presentation of an environment for the route to chaos by quasi periodicity which is related to the Landau Lifschitz and Ruelle Takens scenarios concerning the onset of turbulence the theories of 1 dimensional dynamics singularities in planar vector fields and quasi periodicity in dissipative systems

Dynamics and Thermodynamics of Systems with Long Range Interactions Thierry Dauxois, Stefano Ruffo, Ennio Arimondo, Martin Wilkens, 2008-01-11 Properties of systems with long range interactions are still poorly understood despite being of importance in most areas of physics The present volume introduces and reviews the effort of constructing a coherent thermodynamic treatment of such systems by combining tools from statistical mechanics with concepts and methods from dynamical systems Analogies and differences between various systems are examined by considering a large range of applications with emphasis on Bose Einstein condensates Written as a set of tutorial reviews the book will be useful for both the experienced researcher as well as the nonexpert scientist or postgraduate student

Structures in Dynamics Hendrik Wolter Broer, 1991-01-01 The study of non linear dynamical systems nowadays is an intricate mixture of analysis geometry algebra and measure theory and this book takes all aspects into account Presenting the contents of its authors graduate courses in non linear dynamical systems this volume aims at researchers who wish to be acquainted with the more theoretical and fundamental subjects in non linear dynamics and is designed to link the popular literature with research papers and monographs All of the subjects covered in this book are extensively dealt with and presented in a pedagogic form These include the presentation of an environment for the route to chaos by quasi periodicity which is related to the Landau Lifschitz and Ruelle Takens scenarios concerning the onset of turbulence the theories of 1 dimensional dynamics singularities in planar vector fields and quasi periodicity in dissipative systems

Dynamics: Numerical Explorations Helena E. Nusse, James A. Yorke, 2012-12-06 Plotting trajectories is a useful capability in exploring a dynamical system but it is just the beginning The Maryland Chaos Group developed an array of tools to help visualize the properties of dynamical systems including automatic method for plotting all basins and attractors and for automatically searching for all computing straddle trajectories periodic orbits of a specified period In the investigations of the Maryland Chaos Group I A Yorke found it useful to be able to combine these various basic tools with each other into so that each new study could benefit a single package that grew with time from the previous programming efforts He has been writing this software and distributing

versions for the last nine years The resulting program Dynamics requires either a Unix workstation running X11 graphics or an IBM PC compatible computer Eric I Kostelich has put in a great deal of effort to port the program to Unix workstations Some basic tools in Dynamics such as the computation of Lyapunov exponents and the use of Newton's method are standard The method of computation of stable and unstable manifolds is superior to standard procedures Dynamics is currently being used extensively in our research and it is being used in undergraduate courses Dynamics Numerical Explorations provides an introduction to and overview of fundamental tools and numerical methods together with many simple examples All the numerical methods described in this book are implemented in Dynamics

Dynamical Systems on 2- and 3-Manifolds Viacheslav Z. Grines, Timur V. Medvedev, Olga V. Pochinka, 2016-11-11 This book provides an introduction to the topological classification of smooth structurally stable diffeomorphisms on closed orientable 2 and 3 manifolds The topological classification is one of the main problems of the theory of dynamical systems and the results presented in this book are mostly for dynamical systems satisfying Smale's Axiom A The main results on the topological classification of discrete dynamical systems are widely scattered among many papers and surveys This book presents these results fluidly systematically and for the first time in one publication Additionally this book discusses the recent results on the topological classification of Axiom A diffeomorphisms focusing on the nontrivial effects of the dynamical systems on 2 and 3 manifolds The classical methods and approaches which are considered to be promising for the further research are also discussed by The reader needs to be familiar with the basic concepts of the qualitative theory of dynamical systems which are presented in Part 1 for convenience The book is accessible to ambitious undergraduates graduates and researchers in dynamical systems and low dimensional topology This volume consists of 10 chapters each chapter contains its own set of references and a section on further reading Proofs are presented with the exact statements of the results In Chapter 10 the authors briefly state the necessary definitions and results from algebra geometry and topology When stating ancillary results at the beginning of each part the authors refer to other sources which are readily available

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 *Bifurcations and Periodic Orbits of Vector Fields* Dana Schlomiuk, 2013-03-09 The last thirty years were a period of continuous and intense growth in the subject of dynamical systems New concepts and techniques and at the same time new areas of applications of the theory were found The 31st session of the Seminaire de Mathematiques Superieures SMS held at the Universite de Montreal in July 1992 was on dynamical systems having as its center theme Bifurcations and periodic orbits of vector fields This session of the SMS was a NATO Advanced Study Institute ASI This ASI had the purpose of acquainting the participants with some of the most recent developments and of stimulating new research around the chosen center theme These developments include the major tools of the new resummation techniques with applications in particular to the proof of the non accumulation of limit cycles for real analytic plane vector fields One of the aims of the ASI was to bring together methods from real and complex dynamical systems There is a growing awareness that an interplay between real and complex methods is both useful and necessary for the solution of some of the problems Complex techniques become powerful tools which yield valuable information when applied to the study of the dynamics of real vector fields The recent developments show that no rigid frontiers between disciplines exist and that interesting new developments occur when ideas and techniques from diverse disciplines are married One of the aims of the ASI was to show these multiple interactions at work

The Physics of Complex Systems Franco Mallamace, Harry Eugene Stanley, 2004 It is widely known that complex systems and complex materials comprise a major interdisciplinary scientific field that draws on mathematics physics chemistry biology and medicine as well as such social sciences as economics The role of statistical physics in this new field has been expanding Statistical physics has shown how phenomena and processes in different research areas that have long been assumed to be unrelated can have a common description Through the application of statistical physics methods developed for studying order phenomena in simple systems and processes have been generalized to more complex systems This volume focuses on recent advances and perspectives in the physics of complex systems and provides both an overview of the field and a more detailed examination of the new ideas and unsolved problems that are currently attracting the attention of researchers This book should be a useful reference work for anyone interested in this area whether beginning graduate student or advanced research professional It provides up to date reviews on cutting edge topics compiled by leading authorities and is designed to both broaden the reader's competence within their own field and encourage the exploration of new problems in related fields

Handbook of Dynamical Systems H. Broer, F. Takens, B. Hasselblatt, 2010-11-10 In this volume the authors present a collection of surveys on various aspects of the theory of bifurcations of differentiable dynamical systems and related topics By selecting these subjects they focus on those developments from which research will be active in the coming years The surveys are intended to educate the

reader on the recent literature on the following subjects transversality and generic properties like the various forms of the so called Kupka Smale theorem the Closing Lemma and generic local bifurcations of functions so called catastrophe theory and generic local bifurcations in 1 parameter families of dynamical systems and notions of structural stability and moduli Covers recent literature on various topics related to the theory of bifurcations of differentiable dynamical systems Highlights developments that are the foundation for future research in this field Provides material in the form of surveys which are important tools for introducing the bifurcations of differentiable dynamical systems

Dynamical Systems and Chaos

Henk Broer, Floris Takens, 2010-10-20 Over the last four decades there has been extensive development in the theory of dynamical systems This book aims at a wide audience where the first four chapters have been used for an undergraduate course in Dynamical Systems Material from the last two chapters and from the appendices has been used quite a lot for master and PhD courses All chapters are concluded by an exercise section The book is also directed towards researchers where one of the challenges is to help applied researchers acquire background for a better understanding of the data that computer simulation or experiment may provide them with the development of the theory

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