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STRUCTURES IN DYNAMICS

FINITE DIMENSIONAL
DETERMINISTIC STUDIES

H.W. Broer, F. Dumortier,
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NORTH-HOLLAND

Structure In Dynamics Finite Dimensional Deterministic Studies

**Yoshito Hirata, Masanori Shiro, Miwa
Fukino, Charles L. Webber Jr., Kazuyuki
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Structure In Dynamics Finite Dimensional Deterministic Studies:

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

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. 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 Séminaire de Mathématiques Supérieures (SMS) held at the Université de Montréal 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 *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 *Quasi-Periodic Motions in Families of Dynamical Systems* Hendrik W. Broer, George B. Huitema, Mikhail B. Sevryuk, 2009-01-25 This book is devoted to the phenomenon of quasi periodic motion in dynamical systems Such a motion in the phase space densely fills up an invariant torus This phenomenon is most familiar from Hamiltonian dynamics Hamiltonian systems are well known for their use in modelling the dynamics related to frictionless mechanics including the planetary and lunar motions In this context the general picture appears to be as follows On the one hand Hamiltonian systems occur that are in complete order these are the integrable systems where all motion is confined to invariant tori On the other hand systems exist that are entirely chaotic on each energy level In between we know systems that being sufficiently small perturbations of integrable ones exhibit coexistence of order invariant tori carrying quasi periodic dynamics and chaos the so called stochastic layers The Kolmogorov Arnold Moser KAM theory on quasi periodic motions tells us that the occurrence of such motions is open within the class of all Hamiltonian systems in other words it is a phenomenon persistent under small Hamiltonian perturbations

Moreover generally for any such system the union of quasi periodic tori in the phase space is a nowhere dense set of positive Lebesgue measure a so called Cantor family This fact implies that open classes of Hamiltonian systems exist that are not ergodic The main aim of the book is to study the changes in this picture when other classes of systems or contexts are considered

Introduction to Nonextensive Statistical Mechanics Constantino Tsallis, 2023-01-30 This book focuses on nonextensive statistical mechanics a current generalization of Boltzmann Gibbs BG statistical mechanics Conceived nearly 150 years ago by Maxwell Boltzmann and Gibbs the BG theory one of the greatest monuments of contemporary physics exhibits many impressive successes in physics chemistry mathematics and computational sciences Presently several thousands of publications by scientists around the world have been dedicated to its nonextensive generalization A variety of applications have emerged in complex systems and its mathematical grounding is by now well advanced Since the first edition release thirteen years ago there has been a vast amount of new results in the field all of which have been incorporated in this comprehensive second edition Heavily revised and updated with new sections and figures the second edition remains the go to text on the subject A pedagogical introduction to the BG theory concepts and their generalizations nonlinear dynamics extensivity of the nonadditive entropy global correlations generalization of the standard CLT s complex networks among others is presented in this book as well as a selection of paradigmatic applications in various sciences together with diversified experimental verifications of some of its predictions

Introduction to Nonextensive Statistical Mechanics is suitable for students and researchers with an interest in complex systems and statistical physics

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

Entropy and Entropy Generation J.S. Shiner, 2005-11-30 Entropy and entropy generation play essential roles in our understanding of many diverse phenomena ranging from cosmology to biology Their importance is manifest in areas of immediate practical interest such as the provision of global energy as well as in others of a more fundamental flavour such as the source of order and complexity in nature They also form the basis of most modern formulations of both equilibrium and nonequilibrium thermodynamics Today much progress is being made in our understanding of entropy and entropy generation in both

fundamental aspects and application to concrete problems The purpose of this volume is to present some of these recent and important results in a manner that not only appeals to the entropy specialist but also makes them accessible to the nonspecialist looking for an overview of the field This book contains fourteen contributions by leading scientists in their fields The content covers such topics as quantum thermodynamics nonlinear processes gravitational and irreversible thermodynamics the thermodynamics of Taylor dispersion higher order transport the mesoscopic theory of liquid crystals simulated annealing information and biological aspects global energy photovoltaics heat and mass transport and nonlinear electrochemical systems Audience This work will be of value to physicists chemists biologists and engineers interested in the theory and applications of entropy and its generation *Perturbation Theory* Giuseppe Gaeta,2022-12-16 This volume in the Encyclopedia of Complexity and Systems Science Second Edition is devoted to the fundamentals of Perturbation Theory PT as well as key applications areas such as Classical and Quantum Mechanics Celestial Mechanics and Molecular Dynamics Less traditional fields of application such as Biological Evolution are also discussed Leading scientists in each area of the field provide a comprehensive picture of the landscape and the state of the art with the specific goal of combining mathematical rigor explicit computational methods and relevance to concrete applications New to this edition are chapters on Water Waves Rogue Waves Multiple Scales methods legged locomotion Condensed Matter among others while all other contributions have been revised and updated Coverage includes the theory of Poincare Birkhoff Normal Forms aspects of PT in specific mathematical settings Hamiltonian KAM theory Nekhoroshev theory and symmetric systems technical problems arising in PT with solutions convergence of series expansions diagrammatic methods parametric resonance systems with nilpotent real part PT for non smooth systems and on PT for PDEs write out this acronym partial differential equations Another group of papers is focused specifically on applications to Celestial Mechanics Quantum Mechanics and the related semiclassical PT Quantum Bifurcations Molecular Dynamics the so called choreographies in the N body problem as well as Evolutionary Theory Overall this unique volume serves to demonstrate the wide utility of PT while creating a foundation for innovations from a new generation of graduate students and professionals in Physics Mathematics Mechanics Engineering and the Biological Sciences *Encyclopedia of Nonlinear Science* Alwyn Scott,2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others *Topics in Engineering Mathematics* A.H. van der Burgh,J Simonis,2012-12-06 This volume presents a selection of expository papers on various topics in engineering mathematics The papers concern model problems relating to amongst others the automobile and shipping industries transportation networks and wave propagation Among the methods treated are numerical methods such as the finite element method and Newton s method Karmarkar s interior point

method and generalizations and recurrence and induction in computer science This volume will be of great interest to applied mathematicians physicists and engineers interested in recent developments in engineering mathematics The papers are written with an emphasis on exposition and should be accessible to all members of scientific community interested in modeling and solving real life problems **Nonextensive Statistical Mechanics and Its Applications** Sumiyoshi Abe,Yuko Okamoto,2008-01-11 Nonextensive statistical mechanics is now a rapidly growing field and a new stream in the research of the foundations of statistical mechanics This generalization of the well known Boltzmann Gibbs theory enables the study of systems with long range interactions long term memories or multi fractal structures This book consists of a set of self contained lectures and includes additional contributions where some of the latest developments ranging from astro to biophysics are covered Addressing primarily graduate students and lecturers this book will also be a useful reference for all researchers working in the field *Discrete and Continuous Dynamical Systems* ,2007 **Physics Letters** ,1996

Uncertainty Quantification in Laminated Composites Sudip Dey,Tanmoy Mukhopadhyay,Sondipon Adhikari,2018-09-19 Over the last few decades uncertainty quantification in composite materials and structures has gained a lot of attention from the research community as a result of industrial requirements This book presents computationally efficient uncertainty quantification schemes following meta model based approaches for stochasticity in material and geometric parameters of laminated composite structures Several metamodels have been studied and comparative results have been presented for different static and dynamic responses Results for sensitivity analyses are provided for a comprehensive coverage of the relative importance of different material and geometric parameters in the global structural responses **Recurrence Plots and Their Quantifications: Methodological Breakthroughs and Interdisciplinary Discoveries** Yoshito Hirata,Masanori Shiro,Miwa Fukino,Charles L. Webber Jr.,Kazuyuki Aihara,Norbert Marwan,2025-07-29 This book collects selected contributions from the 10th Recurrence Plot Symposium held at the University of Tsukuba Japan August 28 30 2023 It reflects on the achievements of the previous nine symposia while exploring future prospects of recurrence plots and their quantifications in combination with other key research strategies The book provides a comprehensive bibliographic overview of the methodology offering a solid foundation for both new and experienced researchers It discusses the mathematical foundations of recurrence plots and recurrence microstates and links them to future directions such as machine learning highlighting the potential for innovative applications The text also presents an alternative approach to representing recurrences offering fresh perspectives on this well established technique Additionally it explores the two dimensional projections of three dimensional chromosomal structures as dot maps opening the door to unique chromosomal descriptions in terms of recurrence quantifiers Numerous other contributed chapters highlight the active development of this method and its clever applications to real world systems The book is intended for researchers working in various fields such as physics statistics and mathematics with its interdisciplinary applications also benefiting

experts from psychology physiology geosciences finance and engineering

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