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THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

Global Dynamics, Phase Space Transport, Orbits Homoclinic to Resonances, and Applications

Stephen Wiggins



American Mathematical Society

Global Dynamics Phase Space Transport Orbits Homoclinic To Resonances And Applications

Olavi Nevanlinna



Global Dynamics Phase Space Transport Orbits Homoclinic To Resonances And Applications:

Global Dynamics, Phase Space Transport, Orbits Homoclinic to Resonances, and Applications Stephen Wiggins, This monograph which grew out of a series of lectures delivered by Stephen Wiggins at the Fields Institute in early 1993 is concerned with the geometrical viewpoint of the global dynamics of nonlinear dynamical systems With appropriate examples and concise explanations Wiggins unites many different topics into one volume and makes a unique contribution to the field Engineers physicists chemists and mathematicians who work on issues related to the global dynamics of nonlinear dynamical systems will find these lectures very useful

Pattern Formation: Symmetry Methods and Applications John M. Chadam, 1996 This volume contains the proceedings of two related workshops held at The Fields Institute in February and March 1993 The workshops were an integral part of the thematic year in Dynamical Systems and Bifurcation Theory held during the 1992-1993 academic year This volume covers the full spectrum of research involved in combining symmetry methods with dynamical systems and bifurcation theory from the development of the mathematical theory in order to understand the underlying mechanisms to the application of this new mathematical theory to partial differential equation models of realistic phenomena

Chaos Near Resonance G. Haller, 2012-12-06 Resonances are ubiquitous in dynamical systems with many degrees of freedom They have the basic effect of introducing slow-fast behavior in an evolutionary system which coupled with instabilities can result in highly irregular behavior This book gives a unified treatment of resonant problems with special emphasis on the recently discovered phenomenon of homoclinic jumping After a survey of the necessary background a general finite-dimensional theory of homoclinic jumping is developed and illustrated with examples The main mechanism of chaos near resonances is discussed in both the dissipative and the Hamiltonian context Previously unpublished new results on universal homoclinic bifurcations near resonances as well as on multi-pulse Silnikov manifolds are described The results are applied to a variety of different problems which include applications from beam oscillations surface wave dynamics nonlinear optics atmospheric science and fluid mechanics The theory is further used to study resonances in Hamiltonian systems with applications to molecular dynamics and rigid body motion The final chapter contains an infinite-dimensional extension of the finite-dimensional theory with application to the perturbed nonlinear Schrödinger equation and coupled NLS equations

Nonlinear Functional Analysis and its Applications E. Zeidler, 2013-12-01 The main concern in all scientific work must be the human being himself This one should never forget among all those diagrams and equations Albert Einstein This volume is part of a comprehensive presentation of nonlinear functional analysis the basic content of which has been outlined in the Preface of Part I A Table of Contents for all five volumes may also be found in Part I The Part IV and the following Part V contain applications to mathematical present physics Our goals are the following i A detailed motivation of the basic equations in important disciplines of theoretical physics ii A discussion of particular problems which have played a significant role in the development of physics and through which important mathematical and physical insight may be gained

iii A combination of classical and modern ideas iv An attempt to build a bridge between the language and thoughts of physicists and mathematicians We shall always try to advance as soon as possible to the heart of the problem under consideration and to concentrate on the basic ideas

Coloring Mixed Hypergraphs: Theory, Algorithms and Applications Vitaly Ivanovich Voloshin, 2002 The theory of graph coloring has existed for more than 150 years Historically graph coloring involved finding the minimum number of colors to be assigned to the vertices so that adjacent vertices would have different colors From this modest beginning the theory has become central in discrete mathematics with many contemporary generalizations and applications Generalization of graph coloring type problems to mixed hypergraphs brings many new dimensions to the theory of colorings A main feature of this book is that in the case of hypergraphs there exist problems on both the minimum and the maximum number of colors This feature pervades the theory methods algorithms and applications of mixed hypergraph coloring The book has broad appeal It will be of interest to both pure and applied mathematicians particularly those in the areas of discrete mathematics combinatorial optimization operations research computer science software engineering molecular biology and related businesses and industries It also makes a nice supplementary text for courses in graph theory and discrete mathematics This is especially useful for students in combinatorics and optimization Since the area is new students will have the chance at this stage to obtain results that may become classic in the future

Lectures on Operator Theory and Its Applications Albrecht Böttcher, 1996 Much of the importance of mathematics lies in its ability to provide theories which are useful in widely different fields of endeavour A good example is the large and amorphous body of knowledge known as the theory of linear operators or operator theory which came to life about a century ago as a theory to encompass properties common to matrix differential and integral operators Thus it is a primary purpose of operator theory to provide a coherent body of knowledge which can explain phenomena common to the enormous variety of problems in which such linear operators play a part The theory is a vital part of functional analysis whose methods and techniques are one of the major advances of twentieth century mathematics and now play a pervasive role in the modeling of phenomena in probability imaging signal processing systems theory etc as well as in the more traditional areas of theoretical physics and mechanics This book is based on lectures presented at a meeting on operator theory and its applications held at the Fields Institute in 1994

Meromorphic Functions and Linear Algebra Olavi Nevanlinna, 2003 This volume describes for the first time in monograph form important applications in numerical methods of linear algebra The author presents new material and extended results from recent papers in a very readable style The main goal of the book is to study the behavior of the resolvent of a matrix under the perturbation by low rank matrices Whereas the eigenvalues the poles of the resolvent and the pseudospectra the sets where the resolvent takes large values can move dramatically under such perturbations the growth of the resolvent as a matrix valued meromorphic function remains essentially unchanged This has practical implications to the analysis of iterative solvers for large systems of linear

algebraic equations First the book introduces the basics of value distribution theory of meromorphic scalar functions It then introduces a new nonlinear tool for linear algebra the total logarithmic size of a matrix which allows for a nontrivial generalization of Rolf Nevanlinna's characteristic function from the scalar theory to matrix and operator valued functions In particular the theory of perturbations by low rank matrices becomes possible As an example if the spectrum of a normal matrix collapses under a low rank perturbation there is always a compensation in terms of the loss of orthogonality of the eigenvectors This qualitative phenomenon is made quantitative by using the new tool Applications are given to rational approximation to the Kreiss matrix theorem and to convergence of Krylov solvers The book is intended for researchers in mathematics in general and especially for those working in numerical linear algebra Much of the book is understandable if the reader has a good background in linear algebra and a first course in complex analysis

Efficient Graph Representations. Jeremy P. Spinrad, 2003-01-01 **Introduction to Orthogonal, Symplectic, and Unitary**

Representations of Finite Groups Carl R. Riehm, **Coxeter Groups and Hopf Algebras** Marcelo Aguiar, 2006 An important idea in the work of G C Rota is that certain combinatorial objects give rise to Hopf algebras that reflect the manner in which these objects compose and decompose Recent work has seen the emergence of several interesting Hopf algebras of this kind which connect diverse subjects such as combinatorics algebra geometry and theoretical physics This monograph presents a novel geometric approach using Coxeter complexes and the projection maps of Tits for constructing and studying many of these objects as well as new ones The first three chapters introduce the necessary background ideas making this work accessible to advanced graduate students The later chapters culminate in a unified and conceptual construction of several Hopf algebras based on combinatorial objects which emerge naturally from the geometric viewpoint This work lays a foundation and provides new insights for further development of the subject

Polyhedral and Semidefinite Programming Methods in Combinatorial Optimization Levent Tunçel, 2016-05-05 Since the early 1960s polyhedral methods have played a central role in both the theory and practice of combinatorial optimization Since the early 1990s a new technique semidefinite programming has been increasingly applied to some combinatorial optimization problems The semidefinite programming problem is the problem of optimizing a linear function of matrix variables subject to finitely many linear inequalities and the positive semidefiniteness condition on some of the matrix variables On certain problems such as maximum cut maximum satisfiability maximum stable set and geometric representations of graphs semidefinite programming techniques yield important new results This monograph provides the necessary background to work with semidefinite optimization techniques usually by drawing parallels to the development of polyhedral techniques and with a special focus on combinatorial optimization graph theory and lift and project methods It allows the reader to rigorously develop the necessary knowledge tools and skills to work in the area that is at the intersection of combinatorial optimization and semidefinite optimization A solid background in mathematics at the undergraduate level and some exposure to linear optimization are required Some

familiarity with computational complexity theory and the analysis of algorithms would be helpful Readers with these prerequisites will appreciate the important open problems and exciting new directions as well as new connections to other areas in mathematical sciences that the book provides

Modular Calabi-Yau Threefolds Christian Meyer, 2005 The main subject of this book is the connection between Calabi Yau threefolds and modular forms The book presents the general theory and brings together the known results It studies hundreds of new examples of rigid and non rigid modular Calabi Yau threefolds and correspondences between them Conjectures about the possible levels of modular forms connected with Calabi Yau threefolds are presented Tables of newforms of weight four and large levels are compiled and included in the appendix

Jaquette Brauer Type Embedding Problems Arne Ledet, 2005 This monograph is concerned with Galois theoretical embedding problems of so called Brauer type with a focus on 2 groups and on finding explicit criteria for solvability and explicit constructions of the solutions The advantage of considering Brauer type embedding problems is their comparatively simple condition for solvability in the form of an obstruction in the Brauer group of the ground field The book presupposes knowledge of classical Galois theory and the attendant algebra Before considering questions of reducing the embedding problems and reformulating the solvability criteria the author provides the necessary theory of Brauer groups group cohomology and quadratic forms The book will be suitable for students seeking an introduction to embedding problems and inverse Galois theory It will also be a useful reference for researchers in the field

Function Theory Eric T. Sawyer,

Lectures on Monte Carlo Methods Neal Noah Madras, 2002 Monte Carlo methods form an experimental branch of mathematics that employs simulations driven by random number generators These methods are often used when others fail since they are much less sensitive to the curse of dimensionality which plagues deterministic methods in problems with a large number of variables Monte Carlo methods are used in many fields mathematics statistics physics chemistry finance computer science and biology for instance This book is an introduction to Monte Carlo methods for anyone who would like to use these methods to study various kinds of mathematical models that arise in diverse areas of application The book is based on lectures in a graduate course given by the author It examines theoretical properties of Monte Carlo methods as well as practical issues concerning their computer implementation and statistical analysis The only formal prerequisite is an undergraduate course in probability The book is intended to be accessible to students from a wide range of scientific backgrounds Rather than being a detailed treatise it covers the key topics of Monte Carlo methods to the depth necessary for a researcher to design implement and analyze a full Monte Carlo study of a mathematical or scientific problem The ideas are illustrated with diverse running examples There are exercises sprinkled throughout the text The topics covered include computer generation of random variables techniques and examples for variance reduction of Monte Carlo estimates Markov chain Monte Carlo and statistical analysis of Monte Carlo output

Introduction to Homotopy Theory Paul Selick, 2008 Offers a summary for students and non specialists who are interested in learning the basics of algebraic topology This book

covers fibrations and cofibrations Hurewicz and cellular approximation theorems topics in classical homotopy theory simplicial sets fiber bundles Hopf algebras and generalized homology and cohomology operations Bordism, Stable Homotopy and Adams Spectral Sequences Stanley O. Kochman, 1996 This book is a compilation of lecture notes that were prepared for the graduate course Adams Spectral Sequences and Stable Homotopy Theory given at The Fields Institute during the fall of 1995 The aim of this volume is to prepare students with a knowledge of elementary algebraic topology to study recent developments in stable homotopy theory such as the nilpotence and periodicity theorems Suitable as a text for an intermediate course in algebraic topology this book provides a direct exposition of the basic concepts of bordism characteristic classes Adams spectral sequences Brown Peterson spectra and the computation of stable stems The key ideas are presented in complete detail without becoming encyclopedic The approach to characteristic classes and some of the methods for computing stable stems have not been published previously All results are proved in complete detail Only elementary facts from algebraic topology and homological algebra are assumed Each chapter concludes with a guide for further study Riemannian Geometry Gérard Besson, 1996 This book is a compendium of survey lectures presented at a conference on Riemannian Geometry sponsored by The Fields Institute for Research in Mathematical Sciences Waterloo Canada in August 1993 Attended by over 80 participants the aim of the conference was to promote research activity in Riemannian geometry A select group of internationally established researchers in the field were invited to discuss and present current developments in a selection of contemporary topics in Riemannian geometry This volume contains four of the five survey lectures presented at the conference The book features basic notions of volume and entropy and the difficult and deep relations of these invariants to curvature It also features LP cohomology in which the methods combine various areas of mathematics going beyond Riemannian geometry It covers curvature inequalities from a general point of view leading to the study of general spaces Quasicrystals and Discrete Geometry Jiri Patera, 1998-01-01 Comprising the proceedings of the fall 1995 semester program arranged by The Fields Institute at the U of Toronto Ontario Canada this volume contains eleven contributions which address ordered aperiodic systems realized either as point sets with the Delone property or as tilings of a Euclidean space This collection of articles aims to bring into the mainstream of mathematics and mathematical physics this developing field of study integrating algebra geometry Fourier analysis number theory crystallography and theoretical physics Annotation copyrighted by Book News Inc Portland OR **Multiplicative Galois Module Structure** Alfred Weiss, 1996 This text is the result of a short course on the Galois structure of S units that was given at The Fields Institute in the autumn of 1993 Offering a new angle on an old problem the main theme is that this structure should be determined by class field theory in its cohomological form and by the behaviour of Artin L functions at $s = 0$ A proof of this or even a precise formulation is still far away but the available evidence all points in this direction The work brings together the current evidence that the Galois structure of S units can be described This is intended for graduate students and research

mathematicians specifically algebraic number theorists

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