Geometric Theory of Singular Phenomena in Partial Differential Equations

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SYMPOSIA MATHEMATICA VOLUME XXXVIII

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Geometric Theory Of Singular Phenomena In Partial Differential Equations:

Geometric Theory of Singular Phenomena in Partial Differential Equations Jean Pierre Bourguignon,Paolo de Bartolomeis,Mariano Giaquinta,1998-05-28 Featuring contributions from a group of outstanding mathematicians this book covers the most recent advances in the geometric theory of singular phenomena of partial differential equations occurring in real and complex differential geometry Gathering together papers from a workshop held in Cortona Italy this volume will be of great interest to all those whose research interests lie in real and complex differential geometry partial differential equations and gauge theory *Geometric and Spectral Analysis* Pierre Albin,Dmitry Jakobson, Frédéric Rochon,2014-12-01 In 2012 the Centre de Recherches Math matiques was at the center of many interesting developments in geometric and spectral analysis with a thematic program on Geometric Analysis and Spectral Theory followed by a thematic year on Moduli Spaces Extremality and Global Invariants This volume contains original contributions as well as useful survey articles of recent developments by participants from three of the workshops organized during these programs Geometry of Eigenvalues and Eigenfunctions held from June 4 8 2012 Manifolds of Metrics and Probabilistic Methods in Geometry and Analysis held from July 2 6 2012 and Spectral Invariants on Non compact and Singular Spaces held from July 23 27 2012 The topics covered in this volume include Fourier integral operators eigenfunctions probability and analysis on singular spaces complex geometry K hler Einstein metrics analytic torsion and Strichartz estimates This book is co published with the Centre de Recherches Math matiques **Variational Problems in Differential Geometry** Roger Bielawski,Kevin Houston,Martin Speight,2011-10-20 The field of geometric variational problems is fast moving and influential These problems interact with many other areas of mathematics and have strong relevance to the study of integrable systems mathematical physics and PDEs The workshop Variational Problems in Differential Geometry held in 2009 at the University of Leeds brought together internationally respected researchers from many different areas of the field Topics discussed included recent developments in harmonic maps and morphisms minimal and CMC surfaces extremal K hler metrics the Yamabe functional Hamiltonian variational problems and topics related to gauge theory and to the Ricci flow These articles reflect the whole spectrum of the subject and cover not only current results but also the varied methods and techniques used in attacking variational problems With a mix of original and expository papers this volume forms a valuable reference for more experienced researchers and an ideal introduction for graduate students and postdoctoral researchers *Bosonic Strings: A Mathematical Treatment* Jürgen Jost,2001 This book presents a mathematical treatment of Bosonic string theory from the point of view of global geometry As motivation Jost presents the theory of point particles and Feynman path integrals He provides detailed background material including the geometry of Teichmuller space the conformal and complex geometry of Riemann surfaces and the subtleties of boundary regularity questions The high point is the description of the partition function for Bosonic strings as a finite dimensional integral over a moduli space of Riemann surfaces Jost concludes with some topics related to open and closed

strings and D branes Bosonic Strings is suitable for graduate students and researchers interested in the mathematics underlying string theory **Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures** Rajendra Bhatia,Arup Pal,G Rangarajan,V Srinivas,M Vanninathan,2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress *Singularities and Groups in Bifurcation Theory* Martin Golubitsky,Ian Stewart,David G. Schaeffer,2012-12-06 Bifurcation theory studies how the structure of solutions to equations changes as parameters are varied The nature of these changes depends both on the number of parameters and on the symmetries of the equations Volume I discusses how singularity theoretic techniques aid the understanding of transitions in multiparameter systems This volume focuses on bifurcation problems with symmetry and shows how group theoretic techniques aid the understanding of transitions in symmetric systems Four broad topics are covered group theory and steady state bifurcation equicariant singularity theory Hopf bifurcation with symmetry and mode interactions The opening chapter provides an introduction to these subjects and motivates the study of systems with symmetry Detailed case studies illustrate how group theoretic methods can be used to analyze specific problems arising in applications **Partial Differential Equations** Fritz John,1991-11-20 This book is a very well accepted introduction to the subject In it the author identifies the significant aspects of the theory and explores them with a limited amount of machinery from mathematical analysis Now in this fourth edition the book has again been updated with an additional chapter on Lewy s example of a linear equation without solutions *Linear and Nonlinear Aspects of Vortices* Frank Pacard,Tristan Riviere,2012-12-06 Equations of the Ginzburg Landau vortices have particular applications to a number of problems in physics including phase transition phenomena in superconductors superfluids and liquid crystals Building on the results presented by Bethuel Brazis and Helein this current work further analyzes Ginzburg Landau vortices with a particular emphasis on the uniqueness question The authors begin with a general presentation of the theory and then proceed to study problems using weighted H lder spaces and Sobolev Spaces These are particularly powerful tools and help us obtain a deeper understanding of the nonlinear partial differential equations associated with Ginzburg Landau vortices Such an approach sheds new light on the links between the geometry of vortices and the number of solutions Aimed at mathematicians physicists engineers and grad students this monograph will be useful in a number of contexts in the nonlinear analysis of problems arising in geometry or mathematical physics The material presented covers recent and original results by the authors and will serve as an excellent classroom text or a valuable self study resource **Partial Differential Equations I** Michael Eugene Taylor,1996 This book is intended to be a comprehensive introduction to the subject of partial differential

equations It should be useful to graduate students at all levels beyond that of a basic course in measure theory It should also be of interest to professional mathematicians in analysis mathematical physics and differential geometry This work will be divided into three volumes the first of which focuses on the theory of ordinary differential equations and a survey of basic linear PDEs *Geometric Analysis of Nonlinear Partial Differential Equations* Valentin Lychagin,Joseph Krasilshchik,2021-09-03 This book contains a collection of twelve papers that reflect the state of the art of nonlinear differential equations in modern geometrical theory It comprises miscellaneous topics of the local and nonlocal geometry of differential equations and the applications of the corresponding methods in hydrodynamics symplectic geometry optimal investment theory etc The contents will be useful for all the readers whose professional interests are related to nonlinear PDEs and differential geometry both in theoretical and applied aspects **Acoustic and Electromagnetic Equations** Jean-Claude Nedelec,2001-03-30 Acoustic and electromagnetic waves underlie a range of modern technology from sonar radio and television to microwave heating and electromagnetic compatibility analysis This book written by an international researcher presents some of the research in a complete way It is useful for graduate students in mathematics physics and engineering *Infinite-Dimensional Dynamical Systems in Mechanics and Physics* Roger Temam,2013-12-11 In this book the author presents the dynamical systems in infinite dimension especially those generated by dissipative partial differential equations This book attempts a systematic study of infinite dimensional dynamical systems generated by dissipative evolution partial differential equations arising in mechanics and physics and in other areas of sciences and technology This second edition has been updated and extended *Applied Functional Analysis* Eberhard Zeidler,2012-12-06 A theory is the more impressive the simpler are its premises the more distinct are the things it connects and the broader is its range of applicability Albert Einstein There are two different ways of teaching mathematics namely i the systematic way and ii the application oriented way More precisely by i I mean a systematic presentation of the material governed by the desire for mathematical perfection and completeness of the results In contrast to i approach ii starts out from the question What are the most important applications and then tries to answer this question as quickly as possible Here one walks directly on the main road and does not wander into all the nice and interesting side roads The present book is based on the second approach It is addressed to undergraduate and beginning graduate students of mathematics physics and engineering who want to learn how functional analysis elegantly solves mathematical problems that are related to our real world and that have played an important role in the history of mathematics The reader should sense that the theory is being developed not simply for its own sake but for the effective solution of concrete problems viii Preface Our introduction to applied functional analysis is divided into two parts Part I Applications to Mathematical Physics AMS Vol 108 Part II Main Principles and Their Applications AMS Vol 109 A detailed discussion of the contents can be found in the preface to AMS Vol 108 Hysteresis and Phase Transitions Martin Brokate,Jürgen Sprekels,2012-12-06 Hysteresis is an exciting and mathematically challenging

phenomenon that oc curs in rather different situations jt can be a byproduct offundamental physical mechanisms such as phase transitions or the consequence of a degradation or imperfection like the play in a mechanical system or it is built deliberately into a system in order to monitor its behaviour as in the case of the heat control via thermostats The delicate interplay between memory effects and the occurrence of hys teresis loops has the effect that hysteresis is a genuinely nonlinear phenomenon which is usually non smooth and thus not easy to treat mathematically Hence it was only in the early seventies that the group of Russian scientists around M A Krasnoselskii initiated a systematic mathematical investigation of the phenomenon of hysteresis which culminated in the fundamental monograph Krasnoselskii Pokrovskii 1983 In the meantime many mathematicians have contributed to the mathematical theory and the important monographs of 1 Mayergoyz 1991 and A Visintin 1994a have appeared We came into contact with the notion of hysteresis around the year 1980

Numerical Approximation of Hyperbolic Systems of Conservation Laws Edwige Godlewski,Pierre-Arnaud Raviart,2013-11-21 This work is devoted to the theory and approximation of nonlinear hyper bolic systems of conservation laws in one or two space variables It follows directly a previous publication on hyperbolic systems of conservation laws by the same authors and we shall make frequent references to Godlewski and Raviart 1991 hereafter noted G R though the present volume can be read independently This earlier publication apart from a first chap ter especially covered the scalar case Thus we shall detail here neither the mathematical theory of multidimensional scalar conservation laws nor their approximation in the one dimensional case by finite difference con servative schemes both of which were treated in G R but we shall mostly consider systems The theory for systems is in fact much more difficult and not at all completed This explains why we shall mainly concentrate on some theoretical aspects that are needed in the applications such as the solution of the Riemann problem with occasional insights into more sophisticated problems The present book is divided into six chapters including an introductory chapter For the reader s convenience we shall resume in this Introduction the notions that are necessary for a self sufficient understanding of this book the main definitions of hyperbolicity weak solutions and entropy present the practical examples that will be thoroughly developed in the following chapters and recall the main results concerning the scalar case **Weakly Connected Neural Networks** Frank C. Hoppensteadt,Eugene M. Izhikevich,2012-12-06 This book is devoted to an analysis of general weakly connected neural networks WCNNs that can be written in the form 0 1 m Here each Xi E IR is a vector that summarizes all physiological attributes of the ith neuron n is the number of neurons Ii describes the dynam ics of the ith neuron and gi describes the interactions between neurons The small parameter indicates the strength of connections between the neurons Weakly connected systems have attracted much attention since the sec ond half of seventeenth century when Christian Huygens noticed that a pair of pendulum clocks synchronize when they are attached to a light weight beam instead of a wall The pair of clocks is among the first weakly connected systems to have been studied Systems of the form 0 1 arise in formal perturbation theories developed by Poincare Liapunov and Malkin and in averaging

theories developed by Bogoliubov and Mitropolsky *Inverse Acoustic and Electromagnetic Scattering Theory* David Colton,Rainer Kress,2013-03-09 In the five years since the first edition of this book appeared the field of in verse scattering theory has continued to grow and flourish Hence when the opportunity for a second edition presented itself we were pleased to have the possibility of updating our monograph to take into account recent developments in the area As in the first edition we have been motivated by our own view of inverse scattering and have not attempted to include all of the many new directions in the field However we feel that this new edition represents a state of the art overview of the basic elements of the mathematical theory of acoustic and electromagnetic inverse scattering In addition to making minor corrections and additional comments in the text and updating the references we have added new sections on Newton s method for solving the inverse obstacle problem Section 5 3 the spectral theory of the far field operator Section 8 4 a proof of the uniqueness of the solution to the inverse medium problem for acoustic waves Section 10 2 and a method for determining the support of an inhomogeneous medium from far field data by solving a linear integral equation of the first kind Section 10 7 We hope that this second edition will attract new readers to the beautiful and intriguing field of inverse scattering **Normally Hyperbolic Invariant Manifolds** Jaap Eldering,2013-08-17 This monograph treats normally hyperbolic invariant manifolds with a focus on noncompactness These objects generalize hyperbolic fixed points and are ubiquitous in dynamical systems First normally hyperbolic invariant manifolds and their relation to hyperbolic fixed points and center manifolds as well as overviews of history and methods of proofs are presented Furthermore issues such as uniformity and bounded geometry arising due to noncompactness are discussed in great detail with examples The main new result shown is a proof of persistence for noncompact normally hyperbolic invariant manifolds in Riemannian manifolds of bounded geometry This extends well known results by Fenichel and Hirsch Pugh and Shub and is complementary to noncompactness results in Banach spaces by Bates Lu and Zeng Along the way some new results in bounded geometry are obtained and a framework is developed to analyze ODEs in a differential geometric context Finally the main result is extended to time and parameter dependent systems and overflowing invariant manifolds **Delay Equations** Odo Diekmann,Stephan A.van Gils,Sjoerd M.V. Lunel,Hans-Otto Walther,2012-12-06 The aim of this book is to provide an introduction to the mathematical theory of infinite dimensional dynamical systems by focusing on a relatively simple yet rich class of examples that is those described by delay differential equations It is a textbook giving detailed proofs and providing many exercises which is intended both for self study and for courses at a graduate level The book would also be suitable as a reference for basic results As the subtitle indicates the book is about concepts ideas results and methods from linear functional analysis complex function theory the qualitative theory of dynamical systems and nonlinear analysis After studying this book the reader should have a working knowledge of applied functional analysis and dynamical systems *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 Schr dinger equation and coupled NLS equations

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