

Progress in Nonlinear Differential Equations
and Their Applications

Geometrical Optics and Related Topics

**F. Colombini
N. Lerner
Editors**

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Geometrical Optics And Related Topics Progress In Nonlinear Differential Equations And Their Applications

Massimiliano Berti



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Geometrical Optics and Related Topics Ferruccio Colombini, Nicolas Lerner, 2012-12-06 This book contains fourteen research papers which are expanded versions of conferences given at a meeting held in September 1996 in Cortona Italy The topics include blowup questions for quasilinear equations in two dimensions time decay of waves in LP uniqueness results for systems of conservation laws in one dimension concentration effects for critical nonlinear wave equations diffraction of nonlinear waves propagation of singularities in scattering theory caustics for semi linear oscillations Other topics linked to microlocal analysis are Sobolev embedding theorems in Weyl Hormander calculus local solvability for pseudodifferential equations hypoellipticity for highly degenerate operators The book also contains a result on uniqueness for the Cauchy problem under partial analyticity assumptions and an article on the regularity of solutions for characteristic initial boundary value problems On each topic listed above one will find new results as well as a description of the state of the art Various methods related to nonlinear geometrical optics are a transversal theme of several articles Pseudodifferential techniques are used to tackle classical PDE problems like Cauchy uniqueness We are pleased to thank the speakers for their contributions to the meeting Serge Alinhac Mike Beals Alberto Bressan Jean Yves Chemin Christophe Cheverry Daniele Del Santo Nils Dencker Patrick Gerard Lars Hormander John Hunter Richard Melrose Guy Metivier Yoshinori Morimoto and Tatsuo Nishitani The meeting was made possible in part by the financial support of a European commission program Human capital and mobility CHRX CT94 044 *Geometrical Optics and Related Topics* Ferruccio Colombini, Nicolas Lerner, 1997-01-01

Variational Problems in Riemannian Geometry Paul Baird, Ahmad El Soufi, Ali Fardoun, Rachid Regbaoui, 2012-12-06 This book collects invited contributions by specialists in the domain of elliptic partial differential equations and geometric flows There are introductory survey articles as well as papers presenting the latest research results Among the topics covered are blow up theory for second order elliptic equations bubbling phenomena in the harmonic map heat flow applications of scans and fractional power integrands heat flow for the p energy functional Ricci flow and evolution by curvature of networks of curves in the plane **Variational and Topological Methods in the Study of Nonlinear Phenomena** V. Benci, G. Cerami, M. Degiovanni, D. Fortunato, F. Giannoni, A.M. Micheletti, 2012-12-06 This volume covers recent advances in the field of nonlinear functional analysis and its applications to nonlinear partial and ordinary differential equations with particular emphasis on variational and topological methods A broad range of topics is covered including concentration phenomena in pdes variational methods with applications to pdes and physics periodic solutions of odes computational aspects in topological methods mathematical models in biology Though well differentiated the topics covered are unified through a common perspective and approach Unique to the work are several chapters on computational aspects and applications to biology not usually found with such basic studies on pdes and odes The volume is an excellent reference text for researchers and graduate students in the above mentioned fields Contributors M Clapp M Del Pino M J Esteban P Felmer A Ioffe W

Marzantowicz M Mrozek M Musso R Ortega P Pilarczyk E S r E Schwartzman P Sintzoff R Turner M Willem **New Trends in Analysis and Interdisciplinary Applications** Pei Dang, Min Ku, Tao Qian, Luigi G. Rodino, 2017-04-18 This book presents a collection of papers from the 10th ISAAC Congress 2015 held in Macau China The papers prepared by respected international experts address recent results in Mathematics with a special focus on Analysis By structuring the content according to the various mathematical topics the volume offers specialists and non specialists alike an excellent source of information on the state of the art in Mathematical Analysis and its interdisciplinary applications **New Trends in the Theory of Hyperbolic Equations** Michael Reissig, Bert-Wolfgang Schulze, 2006-03-21 Presenting several developments in the theory of hyperbolic equations this book s contributions deal with questions of low regularity critical growth ill posedness decay estimates for solutions of different non linear hyperbolic models and introduce new approaches based on microlocal methods **Regularity Theory for Mean Curvature Flow** Klaus Ecker, 2012-12-06 Devoted to the motion of surfaces for which the normal velocity at every point is given by the mean curvature at that point this geometric heat flow process is called mean curvature flow Mean curvature flow and related geometric evolution equations are important tools in mathematics and mathematical physics *Nonlinear Elliptic and Parabolic Problems* Michel Chipot, 2005-10-18 The present volume is dedicated to celebrate the work of the renowned mathematician Herbert Amann who had a significant and decisive influence in shaping Nonlinear Analysis Most articles published in this book which consists of 32 articles in total written by highly distinguished researchers are in one way or another related to the scientific works of Herbert Amann The contributions cover a wide range of nonlinear elliptic and parabolic equations with applications to natural sciences and engineering Special topics are fluid dynamics reaction diffusion systems bifurcation theory maximal regularity evolution equations and the theory of function spaces **Nonlinear Oscillations of Hamiltonian PDEs** Massimiliano Berti, 2007-10-05 Many partial differential equations PDEs that arise in physics can be viewed as infinite dimensional Hamiltonian systems This monograph presents recent existence results of nonlinear oscillations of Hamiltonian PDEs particularly of periodic solutions for completely resonant nonlinear wave equations After introducing the reader to classical finite dimensional dynamical system theory including the Weinstein Moser and Fadell Rabinowitz bifurcation results the author develops the analogous theory for nonlinear wave equations The theory and applications of the Nash Moser theorem to a class of nonlinear wave equations is also discussed together with other basic notions of Hamiltonian PDEs and number theory The main examples of Hamiltonian PDEs presented include the nonlinear wave equation the nonlinear Schrödinger equation beam equations and the Euler equations of hydrodynamics This text serves as an introduction to research in this fascinating and rapidly growing field Graduate students and researchers interested in variational techniques and nonlinear analysis applied to Hamiltonian PDEs will find inspiration in the book Travelling Waves in Nonlinear Diffusion-Convection Reaction Brian H. Gilding, Robert Kersner, 2012-12-06 This monograph has grown out of research we started in 1987

although the foundations were laid in the 1970s when both of us were working on our doctoral theses trying to generalize the now classic paper of Oleinik, Kalashnikov and Chzhov on nonlinear degenerate diffusion. Brian worked under the guidance of Bert Peletier at the University of Sussex in Brighton, England and later at Delft University of Technology in the Netherlands on extending the earlier mathematics to include nonlinear convection while Robert worked at Lomonosov State University in Moscow under the supervision of Anatolii Kalashnikov on generalizing the earlier mathematics to include nonlinear absorption. We first met at a conference held in Rome in 1985. In 1987 we met again in Madrid at the invitation of Ildefonso Diaz where we were both staying at La Residencia. As providence would have it, the University Complutense closed down during this visit in response to student demonstrations and we were very much left to our own devices. It was natural that we should gravitate to a research topic of common interest. This turned out to be the characterization of the phenomenon of finite speed of propagation for nonlinear reaction-convection-diffusion equations. Brian had just completed some work on this topic for nonlinear diffusion-convection while Robert had earlier done the same for nonlinear diffusion-absorption. There was no question but that we bundle our efforts on the general situation.

Systems of Conservation Laws Yuxi Zheng, 2012-12-06 This work should serve as an introductory text for graduate students and researchers working in the important area of partial differential equations with a focus on problems involving conservation laws. The only requisite for the reader is a knowledge of the elementary theory of partial differential equations. Key features of this work include broad range of topics from the classical treatment to recent results dealing with solutions to 2D compressible Euler equations, good review of basic concepts, 1D Riemann problems, concrete solutions presented with many examples, over 100 illustrations, open problems and numerical schemes, numerous exercises, comprehensive bibliography and index, appeal to a wide audience of applied mathematicians, graduate students, physicists and engineers. Written in a clear, accessible style, the book emphasizes more recent results that will prepare readers to meet modern challenges in the subject, that is, to carry out theoretical, numerical and asymptotical analysis.

Fuchsian Reduction Satyanad Kichenassamy, 2007-09-18 This four-part text beautifully interweaves theory and applications in Fuchsian Reduction. Background results in weighted Sobolev and Holder spaces as well as Nash-Moser implicit function theorem are provided. Most chapters contain a problem section and notes with references to the literature. This volume can be used as a text in graduate courses in PDEs and/or Algebra or as a resource for researchers working with applications to Fuchsian Reduction. The comprehensive approach features the inclusion of problems and bibliographic notes.

Spatial Patterns L.A. Peletier, W.C. Troy, 2012-12-06 The study of spatial patterns in extended systems and their evolution with time poses challenging questions for physicists and mathematicians alike. Waves on water, pulses in optical fibers, periodic structures in alloys, folds in rock formations and cloud patterns in the sky are omnipresent in the world around us. Their variety and complexity make them a rich area of study. In the study of these phenomena, an important role is played by well-chosen model equations which are often simpler than the full equations.

describing the physical or biological system but still capture its essential features Through a thorough analysis of these model equations one hopes to glean a better understanding of the underlying mechanisms that are responsible for the formation and evolution of complex patterns Classical model equations have typically been second order partial differential equations As an example we mention the widely studied Fisher Kolmogorov or Allen Cahn equation originally proposed in 1937 as a model for the interaction of dispersal and fitness in biological populations As another example we mention the Burgers equation proposed in 1939 to study the interaction of diffusion and nonlinear convection in an attempt to understand the phenomenon of turbulence Both of these are nonlinear second order diffusion equations

Carleman Estimates and Applications to Uniqueness and Control Theory Feruccio Colombini, Claude Zuily, 2012-12-06 The articles in this volume reflect a subsequent development after a scientific meeting entitled Carleman Estimates and Control Theory held in Cartona in September 1999 The 14 research level articles written by experts focus on new results on Carleman estimates and their applications to uniqueness and controllability of partial differential equations and systems The main topics are unique continuation for elliptic PDEs and systems control theory and inverse problems New results on strong uniqueness for second or higher order operators are explored in detail in several papers In the area of control theory the reader will find applications of Carleman estimates to stabilization observability and exact control for the wave and the Schrödinger equations A final paper presents a challenging list of open problems on the topic of controllability of linear and semilinear heat equations The papers contain exhaustive and essentially self contained proofs directly accessible to mathematicians physicists and graduate students with an elementary background in PDEs Contributors are L Aloui M Bellassoued N Burq F Colombini B Dehman C Grammatico M Khenissi H Koch P Le Borgne N Lerner T Nishitani T Okaji K D Phung R Regbaoui X Saint Raymond D Tataru and E Zuazua

Energy Methods for Free Boundary Problems S.N. Antontsev, J.I. Diaz, S. Shmarev, 2012-12-06 For the past several decades the study of free boundary problems has been a very active subject of research occurring in a variety of applied sciences What these problems have in common is their formulation in terms of suitably posed initial and boundary value problems for nonlinear partial differential equations Such problems arise for example in the mathematical treatment of the processes of heat conduction filtration through porous media flows of non Newtonian fluids boundary layers chemical reactions semiconductors and so on The growing interest in these problems is reflected by the series of meetings held under the title Free Boundary Problems Theory and Applications Oxford 1974 Pavia 1979 Durham 1978 Montecatini 1981 Maubuisson 1984 Irsee 1987 Montreal 1990 Toledo 1993 Zakopane 1995 Crete 1997 Chiba 1999 From the proceedings of these meetings we can learn about the different kinds of mathematical areas that fall within the scope of free boundary problems It is worth mentioning that the European Science Foundation supported a vast research project on free boundary problems from 1993 until 1999 The recent creation of the specialized journal Interfaces and Free Boundaries Modeling Analysis and Computation gives us an idea of the vitality of the subject and its present state of

development This book is a result of collaboration among the authors over the last 15 years *Carleman Inequalities* Nicolas Lerner, 2019-05-18 Over the past 25 years Carleman estimates have become an essential tool in several areas related to partial differential equations such as control theory inverse problems or fluid mechanics This book provides a detailed exposition of the basic techniques of Carleman Inequalities driven by applications to various questions of unique continuation Beginning with an elementary introduction to the topic including examples accessible to readers without prior knowledge of advanced mathematics the book's first five chapters contain a thorough exposition of the most classical results such as Calderón's and Hörmander's theorems Later chapters explore a selection of results of the last four decades around the themes of continuation for elliptic equations with the Jerison Kenig estimates for strong unique continuation counterexamples to Cauchy uniqueness of Cohen and Alinhac Baouendi operators with partially analytic coefficients with intermediate results between Holmgren's and Hörmander's uniqueness theorems Wolff's modification of Carleman's method conditional pseudoconvexity and more With examples and special cases motivating the general theory as well as appendices on mathematical background this monograph provides an accessible self-contained basic reference on the subject including a selection of the developments of the past thirty years in unique continuation *Revue Roumaine de Mathématiques Pures Et Appliquées*, 1998

Mathematical Problems in Image Processing Gilles Aubert, Pierre Kornprobst, 2008-04-06 Partial differential equations and variational methods were introduced into image processing about 15 years ago and intensive research has been carried out since then The main goal of this work is to present the variety of image analysis applications and the precise mathematics involved It is intended for two audiences The first is the mathematical community to show the contribution of mathematics to this domain and to highlight some unresolved theoretical questions The second is the computer vision community to present a clear self-contained and global overview of the mathematics involved in image processing problems The book is divided into five main parts Chapter 1 is a detailed overview Chapter 2 describes and illustrates most of the mathematical notions found throughout the work Chapters 3 and 4 examine how PDEs and variational methods can be successfully applied in image restoration and segmentation processes Chapter 5 which is more applied describes some challenging computer vision problems such as sequence analysis or classification This book will be useful to researchers and graduate students in mathematics and computer vision *Optimal Transport and Applications to Geometric Optics* Cristian E. Gutiérrez, 2023-12-09 This book concerns the theory of optimal transport OT and its applications to solving problems in geometric optics It is a self-contained presentation including a detailed analysis of the Monge problem the Monge Kantorovich problem the transshipment problem and the network flow problem A chapter on Monge-Ampère measures is included containing also exercises A detailed analysis of the Wasserstein metric is also carried out For the applications to optics the book describes the necessary background concerning light refraction solving both far field and near field refraction problems and indicates lines of current research in this area Researchers in the fields of mathematical analysis

optimal transport partial differential equations PDEs optimization and optics will find this book valuable It is also suitable for graduate students studying mathematics physics and engineering The prerequisites for this book include a solid understanding of measure theory and integration as well as basic knowledge of functional analysis **Hokkaido Mathematical Journal** ,2006

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