

Michael Beals
Richard B. Melrose
Jeffrey Rauch
Editors

Microlocal Analysis and Nonlinear Waves



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Microlocal Analysis And Nonlinear Waves

Satyanad Kichenassamy



Microlocal Analysis And Nonlinear Waves:

Microlocal Analysis and Nonlinear Waves Michael Beals, Richard B. Melrose, Jeffrey Rauch, 2012-12-06 This IMA Volume in Mathematics and its Applications MICROLOCAL ANALYSIS AND NONLINEAR WAVES is based on the proceedings of a workshop which was an integral part of the 1988 1989 IMA program on Nonlinear Waves We thank Michael Beals Richard Melrose and Jeffrey Rauch for organizing the meeting and editing this proceedings volume We also take this opportunity to thank the National Science Foundation whose financial support made the workshop possible A vner Friedman Willard Miller Jr PREFACE Microlocal analysis is natural and very successful in the study of the propagation of linear hyperbolic waves For example consider the initial value problem Pu f E e RHd supp f C t O u 0 for t

Ray Methods for Nonlinear Waves in Fluids and Plasmas Marcelo Anile, P Pantano, G Russo, J Hunter, 2021-06-23 Presents in a systematic and unified manner the ray method in its various forms for studying nonlinear wave propagation in situations of physical interest essentially fluid dynamics and plasma physics

Nonlinear Wave Equations Tatsien Li, Yi Zhou, 2017-11-23 This book focuses on nonlinear wave equations which are of considerable significance from both physical and theoretical perspectives It also presents complete results on the lower bound estimates of lifespan including the global existence which are established for classical solutions to the Cauchy problem of nonlinear wave equations with small initial data in all possible space dimensions and with all possible integer powers of nonlinear terms Further the book proposes the global iteration method which offers a unified and straightforward approach for treating these kinds of problems Purely based on the properties of solutions to the corresponding linear problems the method simply applies the contraction mapping principle

Lectures on Nonlinear Hyperbolic Differential Equations Lars Hörmander, 1997-07-17 In this introductory textbook a revised and extended version of well known lectures by L H rmander from 1986 four chapters are devoted to weak solutions of systems of conservation laws Apart from that the book only studies classical solutions Two chapters concern the existence of global solutions or estimates of the lifespan for solutions of nonlinear perturbations of the wave or Klein Gordon equation with small initial data Four chapters are devoted to microanalysis of the singularities of the solutions This part assumes some familiarity with pseudodifferential operators which are standard in the theory of linear differential operators but the extension to the more exotic classes of operators needed in the nonlinear theory is presented in complete detail

Nonlinear Wave Equations Satyanad Kichenassamy, 2021-05-30 This work examines the mathematical aspects of nonlinear wave propagation emphasizing nonlinear hyperbolic problems It introduces the tools that are most effective for exploring the problems of local and global existence singularity formation and large time behaviour of solutions and for the study of perturbation methods

Nonlinear Waves: A Geometrical Approach Petar Radoev Popivanov, Angela Slavova, 2018-11-16 This volume provides an in depth treatment of several equations and systems of mathematical physics describing the propagation and interaction of nonlinear waves as different modifications of these the KdV equation Fornberg Whitham equation Vakhnenko equation

Camassa Holm equation several versions of the NLS equation Kaup Kupershmidt equation Boussinesq paradigm and Manakov system amongst others as well as symmetrizable quasilinear hyperbolic systems arising in fluid dynamics Readers not familiar with the complicated methods used in the theory of the equations of mathematical physics functional analysis harmonic analysis spectral theory topological methods a priori estimates conservation laws can easily be acquainted here with different solutions of some nonlinear PDEs written in a sharp form waves with their geometrical visualization and their interpretation In many cases explicit solutions waves having specific physical interpretation solitons kinks peakons ovals loops rogue waves are found and their interactions are studied and geometrically visualized To do this classical methods coming from the theory of ordinary differential equations the dressing method Hirota's direct method and the method of the simplest equation are introduced and applied At the end the paradifferential approach is used This volume is self contained and equipped with simple proofs It contains many exercises and examples arising from the applications in mechanics physics optics and quantum mechanics

Nonlinear Waves Peter R. Popivanov, Angela Slavova, 2011 Big Nate is the star goalie of his school's soccer team and he is tasked with defending his goal and saving the day against Jefferson Middle School their archrival

Nonlinear Wave Equations Walter A. Strauss, 1990-01-12 The theory of nonlinear wave equations in the absence of shocks began in the 1960s Despite a great deal of recent activity in this area some major issues remain unsolved such as sharp conditions for the global existence of solutions with arbitrary initial data and the global phase portrait in the presence of periodic solutions and traveling waves This book based on lectures presented by the author at George Mason University in January 1989 seeks to present the sharpest results to date in this area The author surveys the fundamental qualitative properties of the solutions of nonlinear wave equations in the absence of boundaries and shocks These properties include the existence and regularity of global solutions strong and weak singularities asymptotic properties scattering theory and stability of solitary waves Wave equations of hyperbolic Schrodinger and KdV type are discussed as well as the Yang Mills and the Vlasov Maxwell equations The book offers readers a broad overview of the field and an understanding of the most recent developments as well as the status of some important unsolved problems Intended for mathematicians and physicists interested in nonlinear waves this book would be suitable as the basis for an advanced graduate level course

Third International Conference on Mathematical and Numerical Aspects of Wave Propagation Gary C. Cohen, 1995-01-01 This volume contains the papers presented at the title conference Speakers from 13 different countries were represented at the meeting A broad range of topics in theoretical and applied wave propagation is covered

Mathematics in Industrial Problems Avner Friedman, 2012-12-06 This is the eighth volume in the series Mathematics in Industrial Problems The motivation for these volumes is to foster interaction between Industry and Mathematics at the grass roots level that is at the level of specific problems These problems come from Industry they arise from models developed by the industrial scientists in ventures directed at the manufacture of new or improved products At the same time these problems have the potential for

mathematical challenge and novelty To identify such problems I have visited industries and had discussions with their scientists Some of the scientists have subsequently presented their problems in the IMA Seminar on Industrial Problems The book is based on the seminar presentations and on questions raised in subsequent discussions Each chapter is devoted to one of the talks and is self contained The chapters usually provide references to the mathematical literature and a list of open problems that are of interest to industrial scientists For some problems a partial solution is indicated briefly The last chapter of the book contains a short description of solutions to some of the problems raised in the previous volume as well as references to papers in which such solutions have been published Essays on Mathematical Robotics John

Baillieul, Shankar S. Sastry, Hector J. Sussmann, 2012-12-06 The chapters in this book present an excellent exposition of recent developments in both robotics and nonlinear control centering around hyper redundancy highly oscillatory inputs optimal control exterior differential systems and the use of generic loops The principal topics covered in the book are adaptive control for a class of nonlinear systems event based motion planning nonlinear control synthesis and path planning in robotics with special emphasis on nonholonomic and hyper redundant robotic systems control design and stabilization of driftless affine control systems of the type arising in the kinematic control of nonholonomic robotic systems control design methods for Hamiltonian systems and exterior differential systems The chapter covering exterior differential systems contains a detailed introduction to the use of exterior differential methods including the Goursat and extended Goursat normal forms and their application to path planning for nonholonomic systems **Emerging Applications of Number**

Theory Dennis A. Hejhal, Joel Friedman, Martin C. Gutzwiller, Andrew M. Odlyzko, 2012-12-06 Most people tend to view number theory as the very paradigm of pure mathematics With the advent of computers however number theory has been finding an increasing number of applications in practical settings such as in cryptography random number generation coding theory and even concert hall acoustics Yet other applications are still emerging providing number theorists with some major new areas of opportunity The 1996 IMA summer program on Emerging Applications of Number Theory was aimed at stimulating further work with some of these newest and most attractive applications Concentration was on number theory's recent links with a wave phenomena in quantum mechanics more specifically quantum chaos and b graph theory especially expander graphs and related spectral theory This volume contains the contributed papers from that meeting and will be of interest to anyone intrigued by novel applications of modern number theoretical techniques **Codes, Systems, and**

Graphical Models Brian Marcus, Joachim Rosenthal, 2012-12-06 Coding theory system theory and symbolic dynamics have much in common Among the central themes in each of these subjects are the construction of state space representations understanding of fundamental structural properties of sequence spaces construction of input output systems and understanding the special role played by algebraic structure A major new theme in this area of research is that of codes and systems based on graphical models This volume contains survey and research articles from leading researchers at the

interface of these subjects **Algorithms for Parallel Processing** Michael T. Heath, Abhiram Ranade, Robert S. Schreiber, 2012-12-06 This IMA Volume in Mathematics and its Applications ALGORITHMS FOR PARALLEL PROCESSING is based on the proceedings of a workshop that was an integral part of the 1996-97 IMA program on MATHEMATICS IN HIGH PERFORMANCE COMPUTING The workshop brought together algorithm developers from theory, combinatorics and scientific computing The topics ranged over models, linear algebra, sorting, randomization and graph algorithms and their analysis We thank Michael T. Heath of University of Illinois at Urbana-Champaign Computer Science, Abhiram Ranade of the Indian Institute of Technology Computer Science and Engineering and Robert S. Schreiber of Hewlett-Packard Laboratories for their excellent work in organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation, NSF and the Army Research Office ARO whose financial support made the workshop possible

A. V. Friedman
 Robert Gulliver v
 PREFACE The Workshop on Algorithms for Parallel Processing was held at the IMA September 16-20, 1996 it was the first workshop of the IMA year dedicated to the mathematics of high performance computing The workshop organizers were Abhiram Ranade of The Indian Institute of Technology Bombay, Michael Heath of the University of Illinois and Robert Schreiber of Hewlett-Packard Laboratories Our idea was to bring together researchers who do innovative, exciting parallel algorithms research on a wide range of topics and by sharing insights, problems, tools and methods to learn something of value from one another

Topology and Geometry in Polymer Science Stuart G. Whittington, Witt De Sumners, Timothy Lodge, 2012-12-06 This IMA Volume in Mathematics and its Applications TOPOLOGY AND GEOMETRY IN POLYMER SCIENCE is based on the proceedings of a very successful one week workshop with the same title This workshop was an integral part of the 1995-1996 IMA program on Mathematical Methods in Materials Science We would like to thank Stuart G. Whittington, Witt De Sumners and Timothy Lodge for their excellent work as organizers of the meeting and for editing the proceedings We also take this opportunity to thank the National Science Foundation, NSF, the Army Research Office ARO and the Office of Naval Research, ONR whose financial support made the workshop possible

A. V. Friedman
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 PREFACE This book is the product of a workshop on Topology and Geometry of Polymers held at the IMA in June 1996 The workshop brought together topologists, combinatorialists, theoretical physicists and polymer scientists who share an interest in characterizing and predicting the microscopic entanglement properties of polymers and their effect on macroscopic physical properties

Rational Drug Design Donald G. Truhlar, W. Jeffrey Howe, Anthony J. Hopfinger, Jeff Blaney, Richard E. Dammkoehler, 2012-12-06 Drug research and discovery are of critical importance in human health care Computational approaches for drug lead discovery and optimization have proven successful in many recent research programs These methods have grown in their effectiveness not only because of improved understanding of the basic science, the biological events and molecular interactions that define a target for therapeutic intervention but also because of advances in algorithms, representations and mathematical procedures for studying such processes This volume surveys some

of those advances A broad landscape of high profile topics in computer assisted molecular design CAMD directed to drug design are included Subject areas represented in the volume include receptor based applications such as binding energy approximations molecular docking and de novo design non receptor based applications such as molecular similarity molecular dynamics simulations solvation and partitioning of a solute between aqueous and nonpolar media graph theory non linear multidimensional optimization processing of information obtained from simulation studies global optimization and search strategies and performance enhancement through parallel computing

Multiparticle Quantum Scattering with Applications to Nuclear, Atomic and Molecular Physics

Donald G. Truhlar, Barry Simon, 2012-12-06 This IMA Volume in Mathematics and its Applications MULTIPARTICLE QUANTUM SCATTERING WITH APPLICATIONS TO NUCLEAR ATOMIC AND MOLECULAR PHYSICS is based on the proceedings of a workshop with the same title which was an integral part of the 1994 1995 IMA program on Waves and Scattering We would like to thank Donald G Truhlar and Barry Simon for their excellent work as organizers of this meeting and as editors of the proceedings We also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible A vner Friedman Robert Gulliver v PREFACE The workshop on Multiparticle Quantum Scattering with Applications to Nuclear Atomic and Molecular Physics was held June 12 16 1995 at the Institute for Mathematics and Its Applications in the University of Minnesota Twin Cities campus as part of the 1994 95 Program on Waves and Scattering There were about seventy participants including the plenary lecturers whose contributions are included in this volume The workshop was preceded by a two day tutorial featuring lectures by Donald J Kouri and Gian Michele Graf and we are pleased that both Professors Graf and Kouri were able to write up their tutorials as opening chapters of this volume

Structured Adaptive Mesh Refinement (SAMR) Grid Methods Scott B. Baden, Nikos P. Chrisochoides, Dennis B. Gannon, Michael L. Norman, 2012-12-06 Structured adaptive mesh refinement SAMR methods have matured over the past 20 years and are now the method of choice for certain difficult problems such as compressible flow SAMR presents difficult technical challenges both in terms of the numerical techniques involved and the complexity of the programming effort especially on parallel computers In order to gain insight into managing these difficulties much research effort has been directed at mesh generation parallel computation and improvements in accuracy aimed primarily at refinement interfaces A major stumbling block in this endeavor is that many of these techniques entail substantial amounts of problem specific detail Standardization is highly unlikely except within narrowly defined problem domains The papers presented in this collection are based on talks given at the Workshop on Structured Adaptive Mesh Refinement Grid Methods held at the Institute for Mathematics and its Applications University of Minnesota on March 12 13 1997 They describe research to improve the general understanding of the application of SAMR to practical problems identify issues critical to efficient and effective implementation on high performance computers stimulate the development of a community code

repository for software including benchmarks to assist in the evaluation of software and compiler technologies The ten chapters of this volume have been divided into two parts reflecting two major issues in the topic I programming complexity of SAMR algorithms and II applicability and numerical challenges of SAMR methods Part I presents three programming environments and two libraries that address the concerns of efficient execution and reduced software development times of SAMR applications Part II describes an overview of applications that can benefit from SAMR methods ranging from crack propagation and industrial boilers to

Statistical Models in Epidemiology, the Environment, and Clinical Trials

M.Elizabeth Halloran,Donald Berry,2012-12-06 This IMA Volume in Mathematics and its Applications STATISTICAL MODELS IN EPIDEMIOLOGY THE ENVIRONMENT AND CLINICAL TRIALS is a combined proceedings on Design and Analysis of Clinical Trials and Statistics and Epidemiology Environment and Health This volume is the third series based on the proceedings of a very successful 1997 IMA Summer Program on Statistics in the Health Sciences I would like to thank the organizers M Elizabeth Halloran of Emory University Biostatistics and Donald A Berry of Duke University Institute of Statistics and Decision Sciences and Cancer Center Biostatistics for their excellent work as organizers of the meeting and for editing the proceedings I am grateful to Seymour Geisser of University of Minnesota Statistics Patricia Grambsch University of Minnesota Biostatistics Joel Greenhouse Carnegie Mellon University Statistics Nicholas Lange Harvard Medical School Brain Imaging Center McLean Hospital Barry Margolin University of North Carolina Chapel Hill Biostatistics Sandy Weisberg University of Minnesota Statistics Scott Zeger Johns Hopkins University Biostatistics and Marvin Zelen Harvard School of Public Health Biostatistics for organizing the six weeks summer program I also take this opportunity to thank the National Science Foundation NSF and the Army Research Office ARO whose financial support made the workshop possible Willard Miller Jr

Mathematics of the Internet Brenda Dietrich,Rakesh V. Vohra,Patricia Brick,2001-12-14 The use of the internet for commerce has spawned a variety of auctions marketplaces and exchanges for trading everything from bandwidth to books Mechanisms for bidding agents dynamic pricing and combinatorial bids are being implemented in support of internet based auctions giving rise to new versions of optimization and resource allocation models This volume a collection of papers from an IMA Hot Topics workshop in internet auctions includes descriptions of real and proposed auctions complete with mathematical model formulations theoretical results solution approaches and computational studies This volume also provides a mathematical programming perspective on open questions in auction theory and provides a glimpse of the growing area of dynamic pricing

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