

Progress in Nonlinear Differential Equations
and Their Applications

Serge Alinhac

Blowup for Nonlinear Hyperbolic Equations

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Michael Ruzhansky, Jens Wirth



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Blowup for Nonlinear Hyperbolic Equations Serge Alinhac, 2013-12-01 Solutions to partial differential equations or systems often over specific time periods exhibit smooth behaviour Given sufficient time however they almost invariably undergo a brutal change in behaviour and this phenomenon has become known as blowup In this book the author provides an overview of what is known about this situation and discusses many of the open problems concerning it **Nonlinear**

Hyperbolic Equations, Spectral Theory, and Wavelet Transformations Sergio Albeverio, Michael Demuth, Elmar Schrohe, Bert-Wolfgang Schulze, 2012-12-06 This volume focuses on recent developments in non linear and hyperbolic equations It will be a most valuable resource for researchers in applied mathematics the theory of wavelets and in mathematical and theoretical physics Nine up to date contributions have been written on invitation by experts in the respective fields The book is the third volume of the subseries Advances in Partial Differential Equations **Global**

Propagation of Regular Nonlinear Hyperbolic Waves Tatsien Li, Wang Libin, 2009-09-01 This monograph describes global propagation of regular nonlinear hyperbolic waves described by first order quasilinear hyperbolic systems in one dimension The exposition is clear concise and unfolds systematically beginning with introductory material and leading to the original research of the authors Topics are motivated with a number of physical examples from the areas of elastic materials one dimensional gas dynamics and waves Aimed at researchers and graduate students in partial differential equations and related topics this book will stimulate further research and help readers further understand important aspects and recent progress of regular nonlinear hyperbolic waves *The Two-Dimensional Riemann Problem in Gas Dynamics* Jiequan Li, Tong. Zhang, Shuli Yang, 2022-02-13 The Riemann problem is the most fundamental problem in the entire field of non linear hyperbolic conservation laws Since first posed and solved in 1860 great progress has been achieved in the one dimensional case However the two dimensional case is substantially different Although research interest in it has lasted more than a century it has yielded almost no analytical demonstration It remains a great challenge for mathematicians This volume presents work on the two dimensional Riemann problem carried out over the last 20 years by a Chinese group The authors explore four models scalar conservation laws compressible Euler equations zero pressure gas dynamics and pressure gradient equations They use the method of generalized characteristic analysis plus numerical experiments to demonstrate the elementary field interaction patterns of shocks rarefaction waves and slip lines They also discover a most interesting feature for zero pressure gas dynamics a new kind of elementary wave appearing in the interaction of slip lines a weighted Dirac delta shock of the density function The Two Dimensional Riemann Problem in Gas Dynamics establishes the rigorous mathematical theory of delta shocks and Mach reflection like patterns for zero pressure gas dynamics clarifies the boundaries of interaction of elementary waves demonstrates the interesting spatial interaction of slip lines and proposes a series of open problems With applications ranging from engineering to astrophysics and as the first book to examine the two

dimensional Riemann problem this volume will prove fascinating to mathematicians and hold great interest for physicists and engineers

Further Progress In Analysis - Proceedings Of The 6th International Isaac Congress A Okay Celebi, Robert Pertsch Gilbert, Heinrich G W Begehr, 2009-01-13 The ISAAC International Society for Analysis its Applications and Computation Congress which has been held every second year since 1997 covers the major progress in analysis applications and computation in recent years In this proceedings volume plenary lectures highlight the recent research results while 17 sessions organized by well known specialists reflect the state of the art of important subfields This volume concentrates on partial differential equations function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations inverse problems functional differential and difference equations and integrable systems

Progress in Partial Differential Equations Herbert Amann, C Bandle, Michel Chipot, F Conrad, I Shafrir, 1998-04-01 The numerous applications of partial differential equations to problems in physics mechanics and engineering keep the subject an extremely active and vital area of research With the number of researchers working in the field advances large and small come frequently Therefore it is essential that mathematicians working in partial differential equations and applied mathematics keep abreast of new developments Progress in Partial Differential Equations presents some of the latest research in this important field Both volumes contain the lectures and papers of top international researchers contributed at the Third European Conference on Elliptic and Parabolic Problems In addition to the general theory of elliptic and parabolic problems the topics covered at the conference include applications free boundary problems fluid mechanics general evolution problems calculus of variations homogenization modeling numerical analysis The research notes in these volumes offer a valuable update on the state of the art in this important field of mathematics

Invariant Manifolds and Dispersive Hamiltonian Evolution Equations Kenji Nakanishi, Wilhelm Schlag, 2011 The notion of an invariant manifold arises naturally in the asymptotic stability analysis of stationary or standing wave solutions of unstable dispersive Hamiltonian evolution equations such as the focusing semilinear Klein Gordon and Schrodinger equations This is due to the fact that the linearized operators about such special solutions typically exhibit negative eigenvalues a single one for the ground state which lead to exponential instability of the linearized flow and allows for ideas from hyperbolic dynamics to enter One of the main results proved here for energy subcritical equations is that the center stable manifold associated with the ground state appears as a hyper surface which separates a region of finite time blowup in forward time from one which exhibits global existence and scattering to zero in forward time The authors entire analysis takes place in the energy topology and the conserved energy can exceed the ground state energy only by a small amount This monograph is based on recent research by the authors The proofs rely on an interplay between the variational structure of the ground states and the nonlinear hyperbolic dynamics near these states A key element in the proof is a virial type argument excluding almost homoclinic orbits originating near the ground states and returning to them possibly after a long

excursion These lectures are suitable for graduate students and researchers in partial differential equations and mathematical physics For the cubic Klein Gordon equation in three dimensions all details are provided including the derivation of Strichartz estimates for the free equation and the concentration compactness argument leading to scattering due to Kenig and Merle

Further Progress in Analysis A. Okay Celebi, 2009 The ISAAC International Society for Analysis its Applications and Computation Congress which has been held every second year since 1997 covers the major progress in analysis applications and computation in recent years In this proceedings volume plenary lectures highlight the recent research results while 17 sessions organized by well known specialists reflect the state of the art of important subfields This volume concentrates on partial differential equations function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations inverse problems functional differential and difference equations and integrable systems

Partial Differential Equations and Mathematical Physics Lars Hörmander, Anders Melin, 2013-04-17 On March 17 19 and May 19 21 1995 analysis seminars were organized jointly at the universities of Copenhagen and Lund under the heading Danish Swedish Analysis Seminar The main topic was partial differential equations and related problems of mathematical physics The lectures given are presented in this volume some as short abstracts and some as quite complete expositions or survey papers They span over a large variety of topics The most frequently occurring theme is the use of microlocal analysis which is now important also in the study of non linear differential equations although it originated entirely within the linear theory Perhaps it is less surprising that microlocal analysis has proved to be useful in the study of mathematical problems of classical quantum mechanics for it received a substantial input of ideas from that field The scientific committee for the invitation of speakers consisted of Gerd Grubb in Copenhagen Lars Hörmander and Anders Melin in Lund and Johannes Sjöstrand in Paris Lars Hörmander and Anders Melin have edited the proceedings They were hosts of the seminar days in Lund while Gerd Grubb was the host in Copenhagen Financial support was obtained from the mathematics departments in Copenhagen and Lund CNRS in France the Danish and Swedish National Research Councils Gustaf Sigurd Magnuson's foundation at the Royal Swedish Academy of Sciences and the Wenner Gren foundation in Stockholm We want to thank all these organisations for their support

Hyperbolic Systems of Conservation Laws Philippe G. LeFloch, 2012-12-06 This book examines the well posedness theory for nonlinear hyperbolic systems of conservation laws recently completed by the author together with his collaborators It covers the existence uniqueness and continuous dependence of classical entropy solutions It also introduces the reader to the developing theory of nonclassical undercompressive entropy solutions The systems of partial differential equations under consideration arise in many areas of continuum physics

Type II Blow Up Manifolds for the Energy Supercritical Semilinear Wave Equation Charles Collot, 2018-03-19 Our analysis adapts the robust energy method developed for the study of energy critical bubbles by Merle Raphaël Rodnianski Raphaël Rodnianski and Raphaël Seiwinger the study of this issue for the supercritical semilinear heat

equation done by Herrero Velazquez Matano Merle and Mizoguchi and the analogous result for the energy supercritical Schrödinger equation by Merle Raphaël Rodnianski

Blow-up for Higher-Order Parabolic, Hyperbolic, Dispersion and Schrödinger Equations Victor A. Galaktionov, Enzo L. Mitidieri, Stanislav I. Pohozaev, 2014-09-22 Blow up for Higher Order Parabolic Hyperbolic Dispersion and Schrödinger Equations shows how four types of higher order nonlinear evolution partial differential equations PDEs have many commonalities through their special quasilinear degenerate representations The authors present a unified approach to deal with these quasilinear PDEs The book

Partial Differential Equations And Their Applications - Proceedings Of The Conference Luigi Rodino, Hua Chen, 1999-11-26 This volume reports the recent progress in linear and nonlinear partial differential equations microlocal analysis singular partial differential operators spectral analysis and hyperfunction theory

Evolution PDEs with Nonstandard Growth Conditions Stanislav Antontsev, Sergey Shmarev, 2015-04-01 This monograph offers the reader a treatment of the theory of evolution PDEs with nonstandard growth conditions This class includes parabolic and hyperbolic equations with variable or anisotropic nonlinear structure We develop methods for the study of such equations and present a detailed account of recent results An overview of other approaches to the study of PDEs of this kind is provided The presentation is focused on the issues of existence and uniqueness of solutions in appropriate function spaces and on the study of the specific qualitative properties of solutions such as localization in space and time extinction in a finite time and blow up or nonexistence of global in time solutions Special attention is paid to the study of the properties intrinsic to solutions of equations with nonstandard growth

Advances in Nonlinear Evolution Equations Mohamed Jleli, Bessem Samet, Calogero Vetro, 2025-10-03 This book presents a collection of significant and original contributions that delve into the realm of nonlinear evolution equations and their applications encompassing both theory and practical usage Serving as a dynamic platform for interdisciplinary collaboration it facilitates the exchange of innovative ideas among scientists from diverse fields who share a keen interest in the intricate world of evolution equations The book bridges the gap between theory and practicality offering valuable insights for researchers and enthusiasts alike transcending disciplinary boundaries Evolution equations a subset of partial differential equations serve as mathematical tools to depict the temporal transformation of physical systems from their initial states These equations find widespread utility in modeling various real world phenomena across diverse disciplines Notable examples of nonlinear evolution equations include the heat equation which characterizes the evolution of heat distribution over time the nonlinear Schrödinger equation instrumental in understanding data transmission in fiber optic communication systems the Korteweg de Vries equation illuminating the dynamics of surface water waves and the portrayal of ion acoustic waves in cold plasma

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 *Mathematics and Computer Science, Volume 2* Sharmistha Ghosh, M. Niranjana Murthy, Krishanu Deyasi, Biswadip Basu Mallik, Santanu Das, 2023-07-13 MATHEMATICS AND COMPUTER SCIENCE This second volume in a new multi volume set builds on the basic concepts and fundamentals laid out in the previous volume presenting the reader with more advanced and cutting edge topics being developed in this exciting field This second volume in a new series from Wiley Scrivener is the first of its kind to present scientific and technological innovations by leading academicians eminent researchers and experts around the world in the areas of mathematical sciences and computing Building on what was presented in volume one the chapters focus on more advanced topics in computer science mathematics and where the two intersect to create value for end users through practical applications The chapters herein cover scientific advancements across a diversified spectrum that includes differential as well as integral equations with applications computational fluid dynamics nanofluids network theory and optimization control theory machine learning and artificial intelligence big data analytics Internet of Things cryptography fuzzy automata statistics and many more Readers of this book will get access to diverse ideas and innovations in the field of computing together with its growing interactions in various fields of mathematics Whether for the engineer scientist student academic or other industry professional this is a must have for any library **Handbook of Differential Equations: Evolutionary Equations** C.M. Dafermos, Eduard Feireisl, 2005-10-05 The aim of this Handbook is to acquaint the reader with the current status of the theory of evolutionary partial differential equations and with some of its applications Evolutionary partial differential equations made their first appearance in the 18th century in the endeavor to understand the motion of fluids and other continuous media The active research effort over the span of two centuries combined with the wide variety of physical phenomena that had to be explained has resulted in an enormous body of literature Any attempt to produce a comprehensive survey would be futile The aim here is to collect review articles written by leading experts which will highlight the present and expected future directions of development of the field The emphasis will be on nonlinear equations which pose the most challenging problems today Volume I of this Handbook does focus on the abstract theory of evolutionary equations Volume 2 considers more concrete problems relating to specific applications Together they provide a panorama of this amazingly complex and rapidly developing branch of mathematics **Harmonic Analysis and Partial Differential Equations** Michael Ruzhansky, Jens Wirth, 2023-03-06 This book collects papers related to the session Harmonic Analysis and Partial Differential Equations held at the 13th International ISAAC Congress in Ghent and provides an overview on recent trends and advances in the interplay between harmonic analysis and partial differential equations The book can serve as useful source of information for mathematicians scientists and engineers The volume contains contributions of authors from a variety of countries on a wide range of active research areas covering different aspects of partial differential equations interacting with harmonic analysis and provides a state of the art overview over ongoing research in the field It shows

original research in full detail allowing researchers as well as students to grasp new aspects and broaden their understanding of the area **Advances in Nonlinear Partial Differential Equations and Related Areas** Gui-Qiang Chen, 1998 This volume is a collection of research papers on nonlinear partial differential equations and related areas representing many aspects of the most recent developments in these important areas In particular the following are included nonlinear conservation laws semilinear elliptic equations nonlinear hyperbolic equations nonlinear parabolic equations singular limit problems and analysis of exact and numerical solutions Important areas such as numerical analysis relaxation theory multiphase theory kinetic theory combustion theory dynamical systems and quantum field theory are also covered

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