

Progress in Nonlinear Differential Equations
and Their Applications

Serge Alinhac

Blowup for Nonlinear Hyperbolic Equations

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Blowup For Nonlinear Hyperbolic Equations

M K V Murthy, S Spagnolo



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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 **Nonlinear Hyperbolic Equations and Field Theory** M K V Murthy, S Spagnolo, 1992-03-30

Contains the proceedings of a workshop on nonlinear hyperbolic equations held at Varenna Italy in June 1990 **Blow-Up in Nonlinear Equations of Mathematical Physics** Maxim Olegovich Korpusov, Alexey Vital'evich Ovchinnikov, Alexey Georgievich Sveshnikov, Egor Vladislavovich Yushkov, 2018-08-06 The present book carefully studies the blow up phenomenon of solutions to partial differential equations including many equations of mathematical physics The included material is based on lectures read by the authors at the Lomonosov Moscow State University and the book is addressed to a wide range of researchers and graduate students working in nonlinear partial differential equations nonlinear functional analysis and mathematical physics Contents Nonlinear capacity method of S I Pokhozhaev Method of self similar solutions of V A Galaktionov Method of test functions in combination with method of nonlinear capacity Energy method of H A Levine Energy method of G Todorova Energy method of S I Pokhozhaev Energy method of V K Kalantarov and O A Ladyzhenskaya Energy method of M O Korpusov and A G Sveshnikov Nonlinear Schrödinger equation Variational method of L E Payne and D H Sattinger Breaking of solutions of wave equations Auxiliary and additional results **Blow-up in Nonlinear Sobolev**

Type Equations A. B. Al'shin, M. O. Korpusov, Aleksei Georgievich Sveshnikov, 2011 The monograph is devoted to the study of initial boundary value problems for multi dimensional Sobolev type equations over bounded domains The authors consider both specific initial boundary value problems and abstract Cauchy problems for first order in the time variable differential equations with nonlinear operator coefficients with respect to spatial variables The main aim of the monograph is to obtain

sufficient conditions for global in time solvability to obtain sufficient conditions for blow up of solutions at finite time and to derive upper and lower estimates for the blow up time The abstract results apply to a large variety of problems Thus the well known Benjamin Bona Mahony Burgers equation and Rosenau Burgers equations with sources and many other physical problems are considered as examples Moreover the method proposed for studying blow up phenomena for nonlinear Sobolev type equations is applied to equations which play an important role in physics For instance several examples describe different electrical breakdown mechanisms in crystal semiconductors as well as the breakdown in the presence of sources of free charges in a self consistent electric field The monograph contains a vast list of references 440 items and gives an overall view of the contemporary state of the art of the mathematical modeling of various important problems arising in physics Since the list of references contains many papers which have been published previously only in Russian research journals it may also serve as a guide to the Russian literature

Blow-up for Higher-Order Parabolic, Hyperbolic, Dispersion and Schrodinger Equations Victor A. Galaktionov, Enzo L. Mitidieri, Stanislav I. Pohozaev, 2014-09-22 Blow up for Higher Order Parabolic Hyperbolic Dispersion and Schrodinger 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

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

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

Blow-up Theories for Semilinear Parabolic Equations Bei Hu, 2011-03-23 There is an enormous amount of work in the literature about the blow up behavior of evolution equations It is our intention to introduce the theory by emphasizing the methods while seeking to avoid massive technical computations To reach this goal we use the simplest equation to illustrate the methods these methods very often apply to more general equations

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 differen tial 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 vari ety 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 Hormander and Anders Melin in Lund and Johannes Sjostrand in Paris. Lars Hormander 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.

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.

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.

Partial Differential Equations arising from Physics and Geometry Mohamed Ben Ayed, Mohamed Ali Jendoubi, Yomna Rébaï, Hasna Riahi, Hatem Zaag, 2019-05-02. Presents the state of the art in PDEs including the latest research and short courses accessible to graduate students.

Semi-classical Analysis For Nonlinear Schrodinger Equations: Wkb Analysis, Focal Points, Coherent States (Second Edition)

Remi Carles, 2020-10-05. The second edition of this book consists of three parts. The first one is dedicated to the WKB methods and the semi classical limit before the formation of

caustics The second part treats the semi classical limit in the presence of caustics in the special geometric case where the caustic is reduced to a point or to several isolated points The third part is new in this edition and addresses the nonlinear propagation of coherent states The three parts are essentially independent Compared with the first edition the first part is enriched by a new section on multiphase expansions in the case of weakly nonlinear geometric optics and an application related to this study concerning instability results for nonlinear Schrödinger equations in negative order Sobolev spaces The third part is an overview of results concerning nonlinear effects in the propagation of coherent states in the case of a power nonlinearity and in the richer case of Hartree like nonlinearities It includes explicit formulas of an independent interest such as generalized Mehler's formula generalized lens transform

Nonlinear Wave Equations, Formation of Singularities Fritz John, 1990-07-01

This is the second volume in the University Lecture Series designed to make more widely available some of the outstanding lectures presented in various institutions around the country Each year at Lehigh University a distinguished mathematical scientist presents the Pitcher Lectures in the Mathematical Sciences This volume contains the Pitcher lectures presented by Fritz John in April 1989 The lectures deal with existence in the large of solutions of initial value problems for nonlinear hyperbolic partial differential equations As is typical with nonlinear problems there are many results and few general conclusions in this extensive subject so the author restricts himself to a small portion of the field in which it is possible to discern some general patterns Presenting an exposition of recent research in this area the author examines the way in which solutions can even with small and very smooth initial data blow up after a finite time For various types of quasi linear equations this time depends strongly on the number of dimensions and the size of the data Of particular interest is the formation of singularities for nonlinear wave equations in three space dimensions

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 Velázquez Matano Merle and Mizoguchi and the analogous result for the energy supercritical Schrödinger equation by Merle Raphaël Rodnianski

Collected Papers Fritz John, 1985 *Nonlinear Dispersive Equations* Terence Tao, Starting only with a basic knowledge of graduate real analysis and Fourier analysis the text first presents basic nonlinear tools such as the bootstrap method and perturbation theory in the simpler context of nonlinear ODE then introduces the harmonic analysis and geometric tools used to control linear dispersive PDE These methods are then combined to study four model nonlinear dispersive equations Through extensive exercises diagrams and informal discussion the book gives a rigorous theoretical treatment of the material the real world intuition and heuristics that underlie the subject as well as mentioning connections with other areas of PDE harmonic analysis and dynamical systems

Enjoying the Melody of Expression: An Emotional Symphony within **Blowup For Nonlinear Hyperbolic Equations**

In a world eaten by monitors and the ceaseless chatter of immediate conversation, the melodic beauty and emotional symphony created by the written term often disappear in to the back ground, eclipsed by the constant noise and disturbances that permeate our lives. Nevertheless, set within the pages of **Blowup For Nonlinear Hyperbolic Equations** an enchanting fictional treasure full of organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this interesting masterpiece conducts visitors on a psychological journey, skillfully unraveling the hidden songs and profound impact resonating within each carefully crafted phrase. Within the depths with this touching evaluation, we shall examine the book is central harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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