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BLOW-UP IN QUASILINEAR PARABOLIC EQUATIONS

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Blowup In Quasilinear Parabolic Equations

Bei Hu



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Blow-Up in Quasilinear Parabolic Equations A. A. Samarskii, Victor a. Galaktionov, Sergey p. Kurdyumov, A. P. Mikhailov, 2011-06-24 The aim of the series is to present new and important developments in pure and applied mathematics Well established in the community over two decades it offers a large library of mathematics including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers wishing to thoroughly study the topic Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich and Z Janko Groups of Prime Power Order Volume 6 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urba ski and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bo tjan Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021

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 [The Blow-up of Quasi-linear Parabolic Equations](#)

Yuan-Wei Qi, 1989 **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 **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

Geometric Sturmian Theory of Nonlinear Parabolic Equations and Applications Victor A. Galaktionov, 2004-05-24 Unlike the classical Sturm theorems on the zeros of solutions of second order ODEs Sturm's evolution zero set analysis for parabolic PDEs did not attract much attention in the 19th century and in fact it was lost or forgotten for almost a century Briefly revived by Plya in the 1930s and rediscovered in part several times since it was not un

Superlinear Parabolic Problems Pavol Quittner, Philippe Souplet, 2007-12-16 This book is devoted to the qualitative study of solutions of superlinear elliptic and parabolic partial differential equations and systems This class of problems contains in particular a number of reaction diffusion systems which arise in various mathematical models especially in chemistry physics and biology The book is self contained and up to date taking special care on the didactical preparation of the material It is devoted to problems that are intensively studied but have not been treated thus far in depth in the book literature

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

Recent Progress On Reaction-diffusion Systems And Viscosity Solutions Yihong Du, Hitoshi Ishii, Wei-yueh Lin, 2009-03-12 This book consists of survey and research articles expanding on the theme of the International Conference on Reaction Diffusion Systems and Viscosity Solutions held at Providence University Taiwan during January 3-6 2007 It is a carefully selected collection of articles representing the recent progress of some important areas of nonlinear partial differential equations The book is aimed for researchers and postgraduate students who want to learn about or follow some of the current research topics in

nonlinear partial differential equations The contributors consist of international experts and some participants of the conference including Nils Ackermann Mexico Chao Nien Chen Taiwan Yihong Du Australia Alberto Farina France Hitoshi Ishii Japan N Ishimura Japan Shigeaki Koike Japan Chu Pin Lo Taiwan Peter Polacik USA Kunimochi Sakamoto Japan Richard Tsai USA Mingxin Wang China Yoshio Yamada Japan Eiji Yanagida Japan and Xiao Qiang Zhao Canada **Exact**

Finite-Difference Schemes Sergey Lemeshevsky, Piotr Matus, Dmitriy Poliakov, 2016-09-26 Exact Finite Difference Schemes is a first overview of the topic also describing the state of the art in this field of numerical analysis Construction of exact difference schemes for various parabolic and elliptic partial differential equations are discussed including vibrations and transport problems After this applications are discussed such as the discretisation of ODEs and PDEs and numerical methods for stochastic differential equations Contents Basic notation Preliminary results Hyperbolic equations Parabolic equations Use of exact difference schemes to construct NSFD discretizations of differential equations Exact and truncated difference schemes for boundary value problem Exact difference schemes for stochastic differential equations Numerical blow up time Bibliography Numerical Analysis and Its Applications Zhilin Li, Lubin Vulkov, Jerzy Wásniewski, 2005-02-07 This book constitutes the thoroughly refereed post proceedings of the Third International Conference on Numerical Analysis and Its Applications NAA 2004 held in Rousse Bulgaria in June July 2004 The 68 revised full papers presented together with 8 invited papers were carefully selected during two rounds of reviewing and improvement All current aspects of numerical analysis are addressed Among the application fields covered are computational sciences and engineering chemistry physics economics simulation fluid dynamics visualization etc **Reaction-Diffusion Problems in the Physics of Hot Plasmas** H

Wilhelmsson, E Lazzaro, 2000-01-01 The physics of hot plasmas is of great importance for describing many phenomena in the universe and is fundamental for the prospect of future fusion energy production on Earth Nontrivial results of nonlinear electromagnetic effects in plasmas include the self organization and self formation in the plasma of structures compact in time and space Th A Stability Technique for Evolution Partial Differential Equations Victor A. Galaktionov, Juan Luis Vázquez, 2012-12-06 common feature is that these evolution problems can be formulated as asymptotically small perturbations of certain dynamical systems with better known behaviour Now it usually happens that the perturbation is small in a very weak sense hence the difficulty or impossibility of applying more classical techniques Though the method originated with the analysis of critical behaviour for evolution PDEs in its abstract formulation it deals with a nonautonomous abstract differential equation $NDE \quad U_t = A u + C u \quad t \geq 0$ where u has values in a Banach space like an L^p space A is an autonomous time independent operator and C is an asymptotically small perturbation so that $C u \rightarrow 0$ along orbits $u(t)$ of the evolution in a sense to be made precise which in practice can be quite weak We work in a situation in which the autonomous limit differential equation $ADE \quad U_t = A u^2$ has a well known asymptotic behaviour and we want to prove that for large times the orbits of the original evolution problem converge to a certain class of limits of the autonomous equation

More precisely we want to prove that the orbits of NDE are attracted by a certain limit set Σ of ADE which may consist of equilibria of the autonomous equation or it can be a more complicated object

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

Analytical and Numerical Methods for Convection-dominated and Singularly Perturbed Problems Lubin Vulkov, John James Henry Miller, 2000 This volume is the Proceedings of the Workshop on Analytical and Computational Methods for Convection Dominated and Singularly Perturbed Problems which took place in Lozenetz Bulgaria 27-31 August 1998 The workshop attracted about 50 participants from 12 countries The volume includes 13 invited lectures and 19 contributed papers presented at the workshop and thus gives an overview of the latest developments in both the theory and applications of advanced numerical methods to problems having boundary and interior layers There was an emphasis on experiences from the numerical analysis of such problems and on theoretical developments The aim of the workshop was to provide an opportunity for scientists from the East and the West who develop robust methods for singularly perturbed and related problems and also who apply these methods to real life problems to discuss recent achievements in this area and to exchange ideas with a view of possible research co operation

Differential and Integral Equations, 2007 *Geometry and Nonlinear Partial Differential Equations* Vladimir Olikar, Andrejs Treibergs, American Mathematical Society.

Meeting, 1992 This volume contains the proceedings of an AMS Special Session on Geometry Physics and Nonlinear PDEs The conference brought together specialists in Monge Ampere equations prescribed curvature problems mean curvature harmonic maps evolution with curvature dependent speed isospectral manifolds and general relativity An excellent overview of the frontiers of research in these areas Seminar on Stochastic Analysis, Random Fields and Applications V Robert Dalang, Marco Dozzi, Francesco Russo, 2008-03-12 This volume contains refereed research or review papers presented at the 5th Seminar on Stochastic Processes Random Fields and Applications which took place at the Centro Stefano Franscini Monte Verit in Ascona Switzerland from May 29 to June 3 2004 The seminar focused mainly on stochastic partial differential equations stochastic models in mathematical physics and financial engineering **Contributions to Nonlinear Analysis** Thierry Cazenave, David Costa, Orlando Lopes, Raúl Manásevich, Paul Rabinowitz, Bernhard Ruf, Carlos Tomei, 2007-08-10 This paper is concerned with the existence and uniform decay rates of solutions of the wave equation with a source term and subject to nonlinear boundary damping $u_t u_t u_0$ on $\partial \Omega$ $0 \leq t \leq 1$ $u|_{\partial \Omega} = g(u)$ on $\partial \Omega$ $0 \leq t \leq 1$ $u(x, 0) = u_0(x)$ $u(x, t) \leq n$ where Ω is a bounded domain of \mathbb{R}^n with a smooth boundary $\partial \Omega$ Here $\partial \Omega$ and $\partial \Omega$ are closed and disjoint and represents the unit outward normal $\partial \Omega$ to Ω Problems like (1.1) more precisely $u_t u_t u_0$ on $\partial \Omega$ $0 \leq t \leq 1$ $u|_{\partial \Omega} = g(u)$ on $\partial \Omega$ $0 \leq t \leq 1$ $u(x, 0) = u_0(x)$ $u(x, t) \leq n$ were widely studied in the literature mainly when $f \geq 0$ see [6, 13, 22] and a long list of references therein When $f \leq 0$ and $f \geq 0$ this kind of problem was well studied by Lasiecka and Tataru [15] for a very general model of nonlinear functions $f(s) \leq 0$ but assuming that $f(s) \geq 0$ that is f represents for $i = 1, \dots, n$ each i an attractive force

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