Nonlinear Elliptic
and Parabolic Problems

A Special Tribute to the Work of Herbert Amann

Michel Chipot
Joachim Escher
Editors

Nonlinear Elliptic Parabolic Problems

R. Wong

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   Nonlinear Elliptic and Parabolic Problems Michel Chipot,Joachim Escher,2006-02-09 Celebrates the work of the renowned mathematician Herbert Amann who had a significant and decisive influence in shaping Nonlinear Analysis Containing 32 contributions this volume covers a range of nonlinear elliptic and parabolic equations with applications to natural sciences and engineering   **Regularity Estimates for Nonlinear Elliptic and Parabolic Problems** John Lewis,2012-03-02 The issue of regularity has played a central role in the theory of Partial Differential Equations almost since its inception and despite the tremendous advances made it still remains a very fruitful research field In particular considerable strides have been made in regularity estimates for degenerate and singular elliptic and parabolic equations over the last several years and in many unexpected and challenging directions Because of all these recent results it seemed high time to create an overview that would highlight emerging trends and issues in this fascinating research topic in a proper and effective way The course aimed to show the deep connections between these topics and to open new research directions through the contributions of leading experts in all of these fields   *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   *Recent Advances in Nonlinear Elliptic and Parabolic Problems* Philippe Bénilan,1989 This volume collects most of the lectures and communications presented to the International Conference which took place in Nancy in March 1988 The main issues addressed were nonlinear elliptic equations and systems parabolic equations time dependent systems and the calculus of variations   **Singular Solutions of Nonlinear Elliptic and Parabolic Equations** Alexander A. Kovalevsky,Igor I. Skrypnik,Andrey E. Shishkov,2016-03-21 This monograph looks at several trends in the investigation of singular solutions of nonlinear elliptic and parabolic equations It discusses results on the existence and properties of weak and entropy solutions for elliptic second order equations and some classes of fourth order equations with L1 data and questions on the removability of singularities of solutions to elliptic and parabolic second order equations in divergence form It looks at localized and nonlocalized singularly peaking boundary regimes for different classes of quasilinear parabolic second and high order equations in divergence form The book will be useful for researchers and post graduate students that specialize in the field of the theory of partial differential equations and nonlinear analysis Contents Foreword Part I Nonlinear elliptic equations with L 1 data Nonlinear elliptic equations of the second order with L 1 data Nonlinear equations of the fourth order with strengthened coercivity and L 1 data Part II Removability of

singularities of the solutions of quasilinear elliptic and parabolic equations of the second order Removability of singularities of the solutions of quasilinear elliptic equations Removability of singularities of the solutions of quasilinear parabolic equations Quasilinear elliptic equations with coefficients from the Kato class Part III Boundary regimes with peaking for quasilinear parabolic equations Energy methods for the investigation of localized regimes with peaking for parabolic second order equations Method of functional inequalities in peaking regimes for parabolic equations of higher orders Nonlocalized regimes with singular peaking Appendix Formulations and proofs of the auxiliary results Bibliography **Nonlinear Elliptic and Parabolic Problems** ,1999 **A Pseudo-Monotonicity Adapted to Doubly Nonlinear Elliptic-Parabolic Equations** E. Maitre,2018 Pseudo monotonicity seems to be a good notion to deal with convergence in nonlinear terms of partial differential equations J L Lions 16 used two different definitions of pseudo monotonicity for elliptic and parabolic problems and derived associated existence results Nonlinear elliptic parabolic equations are intermediate equations for which an intermediate pseudo monotonicity is defined and an existence result is proved extending previous results of H W Alt and S Luckhaus 1 and A Berm dez A Durany and C Saguez 5 **Regularity Estimates for Nonlinear Elliptic and Parabolic Problems** John Lewis,Peter Lindqvist,Juan J. Manfredi,Sandro Salsa,2012-03-02 The issue of regularity has played a central role in the theory of Partial Differential Equations almost since its inception and despite the tremendous advances made it still remains a very fruitful research field In particular considerable strides have been made in regularity estimates for degenerate and singular elliptic and parabolic equations over the last several years and in many unexpected and challenging directions Because of all these recent results it seemed high time to create an overview that would highlight emerging trends and issues in this fascinating research topic in a proper and effective way The course aimed to show the deep connections between these topics and to open new research directions through the contributions of leading experts in all of these fields Elliptic And Parabolic Problems, Proceedings Of The 4th European Conference Josef Bemelmans,Bernard Brighi,Alain Brillard,Giorgio Vergara Caffarelli,Michel Marie Chipot,Francis Conrad,Itai Shafrir,Vanda Valente,2002-08-06 This book provides an overview of the state of the art in important subjects including besides elliptic and parabolic issues geometry free boundary problems fluid mechanics evolution problems in general calculus of variations homogenization control modeling and numerical analysis Elliptic and Parabolic Problems Catherine Bandle,2005-07-19 Haim Brezis has made significant contributions in the fields of partial differential equations and functional analysis He is an inspiring teacher and counsellor of many mathematicians in the front ranks The collection of papers presented in this volume reflect Brezis s elegant way of creative thinking **Numerical Solution of Nonlinear Elliptic Problems Via Preconditioning Operators** István Faragó,János Karátson,2002 Numerical Solution of Nonlinear Elliptic Problems Via Preconditioning Operators Theory Applications **Nonlinear Parabolic and Elliptic Equations** C.V. Pao,1992 The recent development of reaction diffusion systems in biology ecology and biochemistry and the traditional importance of these

systems in physics heat mass transfer and engineering lead to extensive study in nonlinear parabolic and elliptical partial differential equations This text provides an introduction to the subject as well as applicat *Proceedings of the 4th European Conference, Elliptic and Parabolic Problems* Josef Bemelmans,2002 This book provides an overview of the state of the art in important subjects including besides elliptic and parabolic issues geometry free boundary problems fluid mechanics evolution problems in general calculus of variations homogenization control modeling and numerical analysis

Free Boundary Problems Isabel Narra Figueiredo,Lisa Santos,2007-01-11 This book collects refereed lectures and communications presented at the Free Boundary Problems Conference FBP2005 These discuss the mathematics of a broad class of models and problems involving nonlinear partial differential equations arising in physics engineering biology and finance Among other topics the talks considered free boundary problems in biomedicine in porous media in thermodynamic modeling in fluid mechanics in image processing in financial mathematics or in computations for inter scale problems

Qualitative Analysis of Nonlinear Elliptic Partial Differential Equations Vicenţiu Rădulescu,2008 This book provides a comprehensive introduction to the mathematical theory of nonlinear problems described by elliptic partial differential equations These equations can be seen as nonlinear versions of the classical Laplace equation and they appear as mathematical models in different branches of physics chemistry biology genetics and engineering and are also relevant in differential geometry and relativistic physics Much of the modern theory of such equations is based on the calculus of variations and functional analysis Concentrating on single valued or multivalued elliptic equations with nonlinearities of various types the aim of this volume is to obtain sharp existence or nonexistence results as well as decay rates for general classes of solutions Many technically relevant questions are presented and analyzed in detail A systematic picture of the most relevant phenomena is obtained for the equations under study including bifurcation stability asymptotic analysis and optimal regularity of solutions The method of presentation should appeal to readers with different backgrounds in functional analysis and nonlinear partial differential equations All chapters include detailed heuristic arguments providing thorough motivation of the study developed later on in the text in relationship with concrete processes arising in applied sciences A systematic description of the most relevant singular phenomena described in this volume includes existence or nonexistence of solutions unicity or multiplicity properties bifurcation and asymptotic analysis and optimal regularity The book includes an extensive bibliography and a rich index thus allowing for quick orientation among the vast collection of literature on the mathematical theory of nonlinear phenomena described by elliptic partial differential equations **Sobolev and Viscosity Solutions for Fully Nonlinear Elliptic and Parabolic Equations** N. V. Krylov,2018-09-07 This book concentrates on first boundary value problems for fully nonlinear second order uniformly elliptic and parabolic equations with discontinuous coefficients We look for solutions in Sobolev classes local or global or for viscosity solutions Most of the auxiliary results such as Aleksandrov s elliptic and parabolic estimates the Krylov Safonov and the Evans Krylov theorems are taken from old sources and the main

results were obtained in the last few years Presentation of these results is based on a generalization of the Fefferman Stein theorem on Fang Hua Lin s like estimates and on the so called ersatz existence theorems saying that one can slightly modify any equation and get a cut off equation that has solutions with bounded derivatives These theorems allow us to prove the solvability in Sobolev classes for equations that are quite far from the ones which are convex or concave with respect to the Hessians of the unknown functions In studying viscosity solutions these theorems also allow us to deal with classical approximating solutions thus avoiding sometimes heavy constructions from the usual theory of viscosity solutions

Topological and Variational Methods for Nonlinear Boundary Value Problems Pavel Drabek,1997-04-17 In the rapidly developing area of nonlinear theory of differential equations many important results have been obtained by the use of nonlinear functional analysis based on topological and variational methods The survey papers presented in this volume represent the current state of the art in the subject The methods outlined in this book can be used to obtain new results concerning the existence uniqueness multiplicity and bifurcation of the solutions of nonlinear boundary value problems for ordinary and partial differential equations The contributions to this volume are from well known mathematicians and every paper contained in this book can serve both as a source of reference for researchers working in differential equations and as a starting point for those wishing to pursue research in this direction With research reports in the field typically scattered in many papers within various journals this book provides the reader with recent results in an accessible form **Wavelet Solution of Linear and Nonlinear Elliptic, Parabolic and Hyperbolic Problems in One Space Dimension** Roland Glowinski,1989 *Asymptotic and Computational Analysis* R. Wong,2020-12-17 Papers presented at the International Symposium on Asymptotic and Computational Analysis held June 1989 Winnipeg Man sponsored by the Dept of Applied Mathematics University of Manitoba and the Canadian Applied Mathematics Society **Partial Differential Equations and Geometric Measure Theory** Alessio Figalli,Enrico Valdinoci,Ireneo Peral,2018-05-23 This book collects together lectures by some of the leaders in the field of partial differential equations and geometric measure theory It features a wide variety of research topics in which a crucial role is played by the interaction of fine analytic techniques and deep geometric observations combining the intuitive and geometric aspects of mathematics with analytical ideas and variational methods The problems addressed are challenging and complex and often require the use of several refined techniques to overcome the major difficulties encountered The lectures given during the course Partial Differential Equations and Geometric Measure Theory in Cetraro June 2 7 2014 should help to encourage further research in the area The enthusiasm of the speakers and the participants of this CIME course is reflected in the text

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