

# NONLINEAR ELLIPTIC BOUNDARY VALUE PROBLEMS FOR EQUATIONS WITH RAPIDLY (OR SLOWLY) INCREASING COEFFICIENTS

BY

JEAN-PIERRE GOSSEZ

**ABSTRACT.** Variational boundary value problems for quasilinear elliptic systems in divergence form are studied in the case where the nonlinearities are nonpolynomial. Monotonicity methods are used to derive several existence theorems which generalize the basic results of Browder and Leray-Lions. Some features of the mappings of monotone type which arise here are that they act in nonreflexive Banach spaces, that they are unbounded and not everywhere defined, and that their inverse is also unbounded and not everywhere defined.

**Introduction.** This paper is concerned with the existence of solutions for variational boundary value problems for quasilinear elliptic systems in divergence form

$$(*) \quad A(u) = \sum_{|\alpha| \leq m} (-1)^{|\alpha|} D^\alpha A_\alpha(x, u, \dots, \nabla^m u)$$

on open subsets  $\Omega$  of  $\mathbb{R}^n$ . Existence theorems for problems of this type were first obtained by Višik [34], [35] using compactness arguments and a priori estimates on  $(m+1)$ st derivatives. Since 1963, these problems have been extensively studied by Browder and others in the context of the theory of mappings of monotone type from a reflexive Banach space to its dual and in the case where the coefficients  $A_\alpha$  have polynomial growth in  $u$  and its derivatives. Basic improvements of Browder's original results [3] were given by Leray-Lions [25] where the monotonicity conditions imposed on  $A$  involve only the variation of  $A_\alpha$ ,  $|\alpha| = m$ , with respect to the top order derivatives  $\nabla^m u$ , and by Browder [7], [8] where the usual coercivity assumption is replaced either by a local a priori bound and a stronger monotonicity condition or by a global a priori bound and some oddness condition.

It is our purpose here to extend the existence theorems of [3], [25], [7], [8]

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# Nonlinear Elliptic Boundary Value Problems And Their Applications

**Ravi P. Agarwal**



## **Nonlinear Elliptic Boundary Value Problems And Their Applications:**

Nonlinear Elliptic Boundary Value Problems and Their Applications H Begehr, Guo-Chun Wen, 1996-05-15      Methods for Analysis of Nonlinear Elliptic Boundary Value Problems I. V. Skrypnik, 1994-01-01 The theory of nonlinear elliptic equations is currently one of the most actively developing branches of the theory of partial differential equations This book investigates boundary value problems for nonlinear elliptic equations of arbitrary order In addition to monotone operator methods a broad range of applications of topological methods to nonlinear differential equations is presented solvability estimation of the number of solutions and the branching of solutions of nonlinear equations Skrypnik establishes by various procedures a priori estimates and the regularity of solutions of nonlinear elliptic equations of arbitrary order Also covered are methods of homogenization of nonlinear elliptic problems in perforated domains The book is suitable for use in graduate courses in differential equations and nonlinear functional analysis      Generalized Functions and Their Applications R.S.

Pathak, 2013-11-11 The International Symposium on Generalized Functions and Their Applications was organized by the Department of Mathematics Banaras Hindu University and held December 23-26 1991 on the occasion of the Platinum Jubilee Celebration of the university More than a hundred mathematicians from ten countries participated in the deliberations of the symposium Thirty lectures were delivered on a variety of topics within the area The contributions to the proceedings of the symposium are with a few exceptions expanded versions of the lectures delivered by the invited speakers The survey papers by Komatsu and Hoskins and Sousa Pinto provide an up to date account of the theory of hyperfunctions ultradistributions and microfunctions and the nonstandard theory of new generalized functions respectively those by Stankovic and Kanwal deal with structures and asymptotics Choquet Bruhat's work studies generalized functions on manifold and gives applications to shocks and discrete models The other contributions relate to contemporary problems and achievements in theory and applications especially in the theory of partial differential equations differential geometry mechanics mathematical physics and systems science The proceedings give a very clear impression of the present state of the art in this field and contain many challenges ideas and open problems The volume is very helpful for a broad spectrum of readers graduate students to mathematical researchers      **Nonlinear Functional Analysis and Its Applications, Part 2**

Felix E. Browder, 1986      **Boundary Value Problems for Nonlinear Elliptic Equations in Divergence Form** Abubakar Mwasa, 2021-02-23 The thesis consists of three papers focussing on the study of nonlinear elliptic partial differential equations in a nonempty open subset of the  $n$  dimensional Euclidean space  $\mathbb{R}^n$  We study the existence and uniqueness of the solutions as well as their behaviour near the boundary of The behaviour of the solutions at infinity is also discussed when is unbounded In Paper A we consider a mixed boundary value problem for the  $p$  Laplace equation  $\operatorname{div} u = p |u|^{p-2} u$  in an open infinite circular half cylinder with prescribed Dirichlet boundary data on a part of the boundary and zero Neumann boundary data on the rest By a suitable transformation of the independent variables this mixed problem is transformed into a Dirichlet

problem for a degenerate weighted elliptic equation on a bounded set. By analysing the transformed problem in weighted Sobolev spaces it is possible to obtain the existence of continuous weak solutions to the mixed problem both for Sobolev and for continuous data on the Dirichlet part of the boundary. A characterisation of the boundary regularity of the point at infinity is obtained in terms of a new variational capacity adapted to the cylinder. In Paper B we study Perron solutions to the Dirichlet problem for the degenerate quasilinear elliptic equation  $\operatorname{div} A(x) \nabla u = 0$  in a bounded open subset of  $\mathbb{R}^n$ . The vector valued function  $A$  satisfies the standard ellipticity assumptions with a parameter  $1 < p$  and a  $p$ -admissible weight  $w$ . For general boundary data the Perron method produces a lower and an upper solution and if they coincide then the boundary data are called resolvable. We show that arbitrary perturbations on sets of weighted  $p$ -capacity zero of continuous and quasicontinuous Sobolev boundary data  $f$  are resolvable and that the Perron solutions for  $f$  and such perturbations coincide. As a consequence it is also proved that the Perron solution with continuous boundary data is the unique bounded continuous weak solution that takes the required boundary data outside a set of weighted  $p$ -capacity zero. Some results in Paper C are a generalisation of those in Paper A extended to quasilinear elliptic equations of the form  $\operatorname{div} A(x) \nabla u = 0$ . Here results from Paper B are used to prove the existence and uniqueness of continuous weak solutions to the mixed boundary value problem for continuous Dirichlet data. Regularity of the boundary point at infinity for the equation  $\operatorname{div} A(x) \nabla u = 0$  is characterised by a Wiener type criterion. We show that sets of Sobolev  $p$ -capacity zero are removable for the solutions and also discuss the behaviour of the solutions at infinity. In particular a certain trichotomy is proved similar to the Phragmén-Lindelöf principle.

**Evolution Equations and Their Applications in Physical and Life Sciences** G. Lumer, 2000-11-08. This volume presents a collection of lectures on linear partial differential equations and semigroups, nonlinear equations, stochastic evolutionary processes and evolution problems from physics, engineering and mathematical biology. The contributions come from the 6th International Conference on Evolution Equations and Their Applications in Physical and Life Sciences held in Bad Herrenalb, Germany.

**Nonlinear Parabolic and Elliptic Equations** C.V. Pao, 2012-12-06. In response to the growing use of reaction-diffusion problems in many fields, this monograph gives a systematic treatment of a class of nonlinear parabolic and elliptic differential equations and their applications. These problems are an important reference for mathematicians and engineers as well as a practical text for graduate students.

*Boundary Value Problems, Integral Equations And Related Problems - Proceedings Of The International Conference* Guo Chun Wen, Jian-ke Lu, 2000-02-22. In this proceedings volume the following topics are discussed: 1) various boundary value problems for partial differential equations and functional equations including free and moving boundary problems; 2) the theory and methods of integral equations and integral operators including singular integral equations; 3) applications of boundary value problems and integral equations to mechanics and physics; 4) numerical methods of integral equations and boundary value problems; and 5) some problems related with analysis and the foregoing subjects.

**Elliptic Boundary Value Problems of Second Order in Piecewise Smooth Domains** Michail Borsuk, Vladimir

Kondratiev,2006-01-12 The book contains a systematic treatment of the qualitative theory of elliptic boundary value problems for linear and quasilinear second order equations in non smooth domains The authors concentrate on the following fundamental results sharp estimates for strong and weak solutions solvability of the boundary value problems regularity assertions for solutions near singular points Key features New the Hardy Friedrichs Wirtinger type inequalities as well as new integral inequalities related to the Cauchy problem for a differential equation Precise exponents of the solution decreasing rate near boundary singular points and best possible conditions for this The question about the influence of the coefficients smoothness on the regularity of solutions New existence theorems for the Dirichlet problem for linear and quasilinear equations in domains with conical points The precise power modulus of continuity at singular boundary point for solutions of the Dirichlet mixed and the Robin problems The behaviour of weak solutions near conical point for the Dirichlet problem for  $m$  Laplacian The behaviour of weak solutions near a boundary edge for the Dirichlet and mixed problem for elliptic quasilinear equations with triple degeneration Precise exponents of the solution decreasing rate near boundary singular points and best possible conditions for this The question about the influence of the coefficients smoothness on the regularity of solutions New existence theorems for the Dirichlet problem for linear and quasilinear equations in domains with conical points The precise power modulus of continuity at singular boundary point for solutions of the Dirichlet mixed and the Robin problems The behaviour of weak solutions near conical point for the Dirichlet problem for  $m$  Laplacian The behaviour of weak solutions near a boundary edge for the Dirichlet and mixed problem for elliptic quasilinear equations with triple degeneration      *Proceedings of the Conference on Differential & Difference Equations and Applications* Ravi P. Agarwal,Kanishka Perera,2006      *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      *Nonlinear Phenomena in Mathematical Sciences* V. Lakshmikantham,2014-05-12 Nonlinear Phenomena in Mathematical Sciences contains the proceedings of an International Conference on Nonlinear Phenomena in Mathematical Sciences held at the University of Texas at Arlington on June 16 20 1980 The papers explore trends in nonlinear phenomena in mathematical sciences with emphasis on nonlinear functional analytic methods and their applications nonlinear wave

theory and applications to medical and life sciences In the area of nonlinear functional analytic methods and their applications the following subjects are discussed optimal control theory periodic oscillations of nonlinear mechanical systems Leray Schauder degree theory differential inequalities applied to parabolic and elliptic partial differential equations bifurcation theory stability theory in analytical mechanics singular and ordinary boundary value problems etc The following topics in nonlinear wave theory are considered nonlinear wave propagation in a randomly homogeneous media periodic solutions of a semilinear wave equation asymptotic behavior of solutions of strongly damped nonlinear wave equations shock waves and dissipation theoretical methods for a nonlinear Schrödinger equation and nonlinear hyperbolic Volterra equations occurring in viscoelasticity Applications to medical and life sciences include mathematical modeling in physiology pharmacokinetics and neuro mathematics along with epidemic modeling and parameter estimation techniques This book will be helpful to students practitioners and researchers in the field of mathematics      **Scientific and Technical Aerospace**

**Reports**, 1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      Dirac Operators

in Analysis John Ryan, Daniele C Struppa, 1999-01-06 Clifford analysis has blossomed into an increasingly relevant and fashionable area of research in mathematical analysis it fits conveniently at the crossroads of many fundamental areas of research including classical harmonic analysis operator theory and boundary behavior This book presents a state of the art account of the most recent developments in the field of Clifford analysis with contributions by many of the field's leading researchers      *From Convexity to Nonconvexity* R.P. Gilbert, Panagiotis D. Panagiotopoulos, Panos M. Pardalos, 2013-12-01

This collection of papers is dedicated to the memory of Gaetano Fichera a great mathematician and also a good friend to the editors Regrettably it took an unusual amount of time to bring this collection out This was primarily due to the fact that the main editor who had collected all of the materials for this volume P D Panagiotopoulos died unexpectedly during the period when we were editing the manuscript The other two editors in appreciation of Panagiotopoulos contribution to this field believe it is therefore fitting that this collection be dedicated to his memory also The theme of the collection is centered around the seminal research of G Fichera on the Signorini problem Variants on this idea enter in different ways For example by bringing in friction the problem is no longer self adjoint and the minimization formulation is not valid A large portion of this collection is devoted to survey papers concerning hemivariational methods with a main point of its application to nonsmooth mechanics Hemivariational inequalities which are a generalization of variational inequalities were pioneered by Panagiotopoulos There are many applications of this theory to the study of non convex energy functionals occurring in many branches of mechanics An area of concentration concerns contact problems in particular quasistatic and dynamic contact problems with friction and damage Nonsmooth optimization methods which may be divided into the main groups of subgradient methods and bundle methods are also discussed in this collection      **Nonlinear Partial Differential**

**Equations** A Benkirane, J P Gossez, 1996-04-11 This book presents a collection of selected contributions on recent results in nonlinear partial differential equations from participants to an international conference held in Fes Morocco in 1994 The emphasis is on nonlinear elliptic boundary value problems but there are also papers devoted to related areas such as monotone operator theory calculus of variations Hamiltonian systems and periodic solutions Some of the papers are exhaustive surveys while others contain new results published here for the first time This book will be of particular interest to graduate or postgraduate students as well as to specialists in these areas

**Equadiff 82** H. W. Knobloch, K. Schmitt, 2007-01-05

**Contributions in Numerical Mathematics** Ravi P. Agarwal, 1993 World Scientific Series in Applicable Analysis WSSIAA aims at reporting new developments of a high mathematical standard and of current interest Each volume in the series shall be devoted to mathematical analysis that has been applied or potentially applicable to the solutions of scientific engineering and social problems This second volume of WSSIAA contains 34 research articles on numerical mathematics by leading mathematicians from all over the world This volume is dedicated to the memory of Lothar Collatz 1910 1990 for his significant contributions to numerical mathematics Contributors G Adomian E L Allgower C T H Baker B Beckermann R W Brankin C Brezinski L Brugnano J C Butcher M D Buhmann J R Cash R Chapko H L Chen Min Chen I Galligani T J Garratt K Georg I Gladwell D Greenspan C W Groetsch E Hairer P J van der Houwen A Iserles L Jay K Kaji A Q M Khaliq M E Kramer R Kress Chun Li D S Lubinsky R M M Mattheij C A Micchelli J J H Miller T Mitsui G Monegato G Moore M Mori M T Nakao S P N rsett T Ojika T Ooura S Pr ssdorf R Rach Y Saito M Sakai T Sakurai L F Shampine B P Sommeijer A Spence H J Stetter R Temam K L Teo V Thom e D Trigiante T Torii E H Twizell R A Usmani D A Voss J Walker Song Wang G A Watson J Wimp K H Wong N Y Zhang

**Ten Mathematical Essays on Approximation in Analysis and Topology** Juan Ferrera, J. Lopez-Gomez, F.R. Ruiz del Portal, 2005-04-26 This book collects 10 mathematical essays on approximation in Analysis and Topology by some of the most influent mathematicians of the last third of the 20th Century Besides the papers contain the very ultimate results in each of their respective fields many of them also include a series of historical remarks about the state of mathematics at the time they found their most celebrated results as well as some of their personal circumstances originating them which makes particularly attractive the book for all scientist interested in these fields from beginners to experts These gem pieces of mathematical intra history should delight to many forthcoming generations of mathematicians who will enjoy some of the most fruitful mathematics of the last third of 20th century presented by their own authors This book covers a wide range of new mathematical results Among them the most advanced characterisations of very weak versions of the classical maximum principle the very last results on global bifurcation theory algebraic multiplicities general dependencies of solutions of boundary value problems with respect to variations of the underlying domains the deepest available results in rapid monotone schemes applied to the resolution of non linear boundary value problems the intra history of the the genesis of the first general global continuation results in the context of periodic solutions of nonlinear

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