

## Boundary Value Problems for Nonlinear Elliptic Equations of Second Order in High Dimensional Domains

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Name Advances

# **Nonlinear Elliptic Boundary Value Problems**

**IBRAHIM MOHAMED. HASSAN** 

#### **Nonlinear Elliptic Boundary Value Problems:**

Nonlinear Elliptic Boundary Value Problems Igor V. SKRYPNIK,1986-01-01 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.

\*\*On Nonlinear Elliptic Boundary Value Problems\*\* HABIB MICHAEL FAYEZ.,1982\*\*

Nonlinear Elliptic Boundary Value Problems I. V. Skrypnik, 1986 Nonlocal and Nonlinear Elliptic Boundary Value Problems IBRAHIM MOHAMED. HASSAN,1991 Nonlocal and Nonlinear Elliptic Boundary Value Problems Ibrahim M. Hassan Ali,1989 Boundary Value Problems for Nonlinear Elliptic Equations in Divergence Form Abubakar Mwasa, 2021-02-23 The thesis consists of three papers focusing on the study of nonlinear elliptic partial differential equations in a nonempty open subset of the n dimensional Euclidean space Rn 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 pu div u p 2 u 0 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 div A x u 0 in a bounded open subset of Rn 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 resolutive We show that arbitrary perturbations on sets of weighted p capacity zero of continuous and quasicontinuous Sobolev boundary data f are resolutive 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 div A x 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 div A x 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 In particular a certain trichotomy is proved similar to the Phragm n Lindel f principle **NONLINEAR** ELLIPTIC BOUNDARY VALUE PROBLEMS AT RESONANCE.. HOWARD CHARLES SHAW,1975 Nonlinear Elliptic Boundary Value Problems Michael Butros, 2000 Nonlinear Elliptic Boundary Value Problems and Their Applications H Polyharmonic Boundary Value Problems Filippo Gazzola, Hans-Christoph Begehr.Guo-Chun Wen.1996-05-15 Grunau, Guido Sweers, 2010-05-26 This accessible monograph covers higher order linear and nonlinear elliptic boundary value problems in bounded domains mainly with the biharmonic or poly harmonic operator as leading principal part It provides rapid access to recent results and references Positive Solutions of Nonlinear Elliptic Boundary Value Problems Abraham Abebe, 2014 This dissertation focuses on the study of positive steady states to classes of nonlinear reaction diffusion elliptic systems on bounded domains as well as on exterior domains with Dirichlet boundary conditions In particular we study such systems in the challenging case when the reaction terms are negative at the origin referred in the literature as semipositone problems For the last 30 years study of elliptic partial differential equations with semipositone structure has flourished not only for the semilinear case but also for quasilinear case Here we establish several results that directly contribute to and enhance the literature of semipositone problems In particular we discuss existence non existence and multiplicity results for classes of superlinear as well as sublinear systems We establish our results via the method of sub super solutions degree theory arguments a priori bounds and energy analysis Abstract from author supplied metadata

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