



Nonlinear Potential Theory of Degenerate Elliptic Equations

Juha Heinonen
Tero Kilpeläinen
& Olli Martio

Nonlinear Potential Theory Of Degenerate Elliptic Equations Dover S On Mathematics

Jie Xiao



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A self contained treatment appropriate for advanced undergraduates and graduate students this text offers a detailed development of the necessary background for its survey of the nonlinear potential theory of superharmonic functions 1993 edition

Nonlinear Potential Theory of Degenerate Elliptic Equations Juha Heinonen, Tero Kipela, Olli Martio, 2018-05-16 A self contained treatment appropriate for advanced undergraduate and graduate students this volume offers a detailed development of the necessary background for its survey of the nonlinear potential theory of superharmonic functions Starting with the theory of weighted Sobolev spaces the text advances to the theory of weighted variational capacity Succeeding chapters investigate solutions and supersolutions of equations with emphasis on refined Sobolev spaces variational integrals and harmonic functions Chapter 7 defines superharmonic functions via the comparison principle and chapters 8 through 14 form the core of the nonlinear potential theory of superharmonic functions Topics include balayage Perron's method barriers and resolutivity polar sets harmonic measure fine topology harmonic morphisms and quasiregular mappings The book concludes with explorations of axiomatic nonlinear potential theory and helpful appendixes

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 $\operatorname{div} u \leq 0$ 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 $\operatorname{div} A(x) \nabla u = 0$ 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 resolute We show that arbitrary perturbations on sets of weighted p capacity zero of continuous and quasicontinuous Sobolev boundary data f are resolute 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 ∞ . In particular a certain trichotomy is proved similar to the Phragmén-Lindelöf principle.

Local And Global Aspects Of Quasilinear Degenerate Elliptic Equations: Quasilinear Elliptic Singular Problems Laurent Veron, 2017-05-05 This book is devoted to the study of elliptic second order degenerate quasilinear equations the model of which is the p -Laplacian with or without dominant lower order reaction term. Emphasis is put on three aspects.

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.

Potentials and Partial Differential Equations Suzanne Lenhart, Jie Xiao, 2023-05-22 This volume is dedicated to the legacy of David R Adams 1941-2021 and discusses calculus of variations functional harmonic potential analysis partial differential equations and their applications in modeling mathematical physics and differential integral geometry.

Geometric Properties for Parabolic and Elliptic PDE's Filippo Gazzola, Kazuhiro Ishige, Carlo Nitsch, Paolo Salani, 2016-08-08 This book collects recent research papers by respected specialists in the field. It presents advances in the field of geometric properties for parabolic and elliptic partial differential equations an area that has always attracted great attention. It settles the basic issues existence uniqueness stability and regularity of solutions of initial boundary value problems before focusing on the topological and or geometric aspects. These topics interact with many other areas of research and rely on a wide range of mathematical tools and techniques both analytic and geometric. The Italian and Japanese mathematical schools have a long history of research on PDEs and have numerous active groups collaborating in the study of the geometric properties of their solutions.

Harmonic Analysis and Partial Differential Equations Anatoly Golberg, Peter Kuchment, David Shoikhet, 2023-03-25 Over the course of his distinguished career Vladimir Maz'ya has made a number of groundbreaking contributions to numerous areas of mathematics including partial differential equations function theory and harmonic analysis. The chapters in this volume compiled on the occasion of his 80th birthday are written by distinguished mathematicians and pay tribute to his many

significant and lasting achievements Geometric Analysis of Quasilinear Inequalities on Complete Manifolds Bruno Bianchini, Luciano Mari, Patrizia Pucci, Marco Rigoli, 2021-01-18 This book demonstrates the influence of geometry on the qualitative behaviour of solutions of quasilinear PDEs on Riemannian manifolds Motivated by examples arising among others from the theory of submanifolds the authors study classes of coercive elliptic differential inequalities on domains of a manifold M with very general nonlinearities depending on the variable x on the solution u and on its gradient The book highlights the mean curvature operator and its variants and investigates the validity of strong maximum principles compact support principles and Liouville type theorems In particular it identifies sharp thresholds involving curvatures or volume growth of geodesic balls in M to guarantee the above properties under appropriate Keller Osserman type conditions which are investigated in detail throughout the book and discusses the geometric reasons behind the existence of such thresholds Further the book also provides a unified review of recent results in the literature and creates a bridge with geometry by studying the validity of weak and strong maximum principles at infinity in the spirit of Omori Yau's Hessian and Laplacian principles and subsequent improvements *Potential Estimates and Quasilinear Parabolic Equations with Measure Data* Quoc-Hung Nguyen, 2024-01-19 View the abstract *Classical Fine Potential Theory* Mohamed El Kadiri, Bent Fuglede, 2025-04-03 This comprehensive book explores the intricate realm of fine potential theory Delving into the real theory it navigates through harmonic and subharmonic functions addressing the famed Dirichlet problem within finely open sets of \mathbb{R}^n These sets are defined relative to the coarsest topology on \mathbb{R}^n ensuring the continuity of all subharmonic functions This theory underwent extensive scrutiny starting from the 1970s particularly by Fuglede within the classical or axiomatic framework of harmonic functions The use of methods from fine potential theory has led to solutions of important classical problems and has allowed the discovery of elegant results for extension of classical holomorphic function to wider classes of domains Moreover this book extends its reach to the notion of plurisubharmonic and holomorphic functions within plurifinely open sets of \mathbb{C}^n and its applications to pluripotential theory These open sets are defined by coarsest topology that renders all plurisubharmonic functions continuous on \mathbb{C}^n The presentation is meticulously crafted to be largely self contained ensuring accessibility for readers at various levels of familiarity with the subject matter Whether delving into the fundamentals or seeking advanced insights this book is an indispensable reference for anyone intrigued by potential theory and its myriad applications Organized into five chapters the first four unravel the intricacies of fine potential theory while the fifth chapter delves into plurifine pluripotential theory **A Course on Tug-of-War Games with Random Noise** Marta Lewicka, 2020-06-19 This graduate textbook provides a detailed introduction to the probabilistic interpretation of nonlinear potential theory relying on the recently introduced notion of tug of war games with noise The book explores both basic and more advanced constructions carefully explaining the parallel between linear and nonlinear cases The presentation is self contained with many exercises making the book suitable as a textbook for a graduate course as well as for self study

Extensive background and auxiliary material allow the tailoring of courses to individual student levels

Q α Analysis on Euclidean Spaces Jie Xiao, 2019-03-18 Starting with the fundamentals of Q spaces and their relationships to Besov spaces this book presents all major results around Q spaces obtained in the past 16 years The applications of Q spaces in the study of the incompressible Navier Stokes system and its stationary form are also discussed This self contained book can be used as an essential reference for researchers and graduates in analysis and partial differential equations

Maximum Principles and Geometric Applications Luis J. Alías, Paolo Mastrolia, Marco Rigoli, 2016-02-13 This monograph presents an introduction to some geometric and analytic aspects of the maximum principle In doing so it analyses with great detail the mathematical tools and geometric foundations needed to develop the various new forms that are presented in the first chapters of the book In particular a generalization of the Omori Yau maximum principle to a wide class of differential operators is given as well as a corresponding weak maximum principle and its equivalent open form and parabolicity as a special stronger formulation of the latter In the second part the attention focuses on a wide range of applications mainly to geometric problems but also on some analytic especially PDEs questions including the geometry of submanifolds hypersurfaces in Riemannian and Lorentzian targets Ricci solitons Liouville theorems uniqueness of solutions of Lichnerowicz type PDEs and so on

Maximum Principles and Geometric Applications is written in an easy style making it accessible to beginners The reader is guided with a detailed presentation of some topics of Riemannian geometry that are usually not covered in textbooks Furthermore many of the results and even proofs of known results are new and lead to the frontiers of a contemporary and active field of research

Conformally Invariant Metrics and Quasiconformal Mappings Parisa Hariri, Riku Klén, Matti Vuorinen, 2020-04-11 This book is an introduction to the theory of quasiconformal and quasiregular mappings in the euclidean n dimensional space where n is greater than 2 There are many ways to develop this theory as the literature shows The authors approach is based on the use of metrics in particular conformally invariant metrics which will have a key role throughout the whole book The intended readership consists of mathematicians from beginning graduate students to researchers The prerequisite requirements are modest only some familiarity with basic ideas of real and complex analysis is expected

Notes on Tug-of-War Games and the p -Laplace Equation Mikko Parviainen, 2024-02-22 This book addresses the interplay between stochastic processes and partial differential equations More specifically it focuses on the connection between the nonlinear p Laplace equation and the stochastic game called tug of war with noise The connection in this context was discovered approximately 15 years ago and has since provided new insights and approaches These lecture notes provide a brief but detailed and accessible introduction to the subject and to the more research oriented literature The book also presents the parabolic case side by side with the elliptic case highlighting the fact that elliptic and parabolic equations are close in spirit in certain aspects Moreover it covers some parts of the regularity theory for these problems Graduate students and advanced undergraduate students with a basic understanding of

probability and partial differential equations will find this book useful

New Trends on Analysis and Geometry in Metric Spaces Fabrice Baudoin, Séverine Rigot, Giuseppe Savaré, Nageswari Shanmugalingam, 2022-02-04 This book includes four courses on geometric measure theory the calculus of variations partial differential equations and differential geometry Authored by leading experts in their fields the lectures present different approaches to research topics with the common background of a relevant underlying usually non Riemannian geometric structure In particular the topics covered concern differentiation and functions of bounded variation in metric spaces Sobolev spaces and differential geometry in the so called Carnot Carathéodory spaces The text is based on lectures presented at the 10th School on Analysis and Geometry in Metric Spaces held in Levico Terme TN Italy in collaboration with the University of Trento Fondazione Bruno Kessler and CIME Italy The book is addressed to both graduate students and researchers

Nonlinear Elliptic Equations and Nonassociative Algebras Nikolai Nadirashvili, Vladimir Tkachev, Serge Vlăduț, 2014-12-03 This book presents applications of noncommutative and nonassociative algebras to constructing unusual nonclassical and singular solutions to fully nonlinear elliptic partial differential equations of second order The methods described in the book are used to solve a longstanding problem of the existence of truly weak nonsmooth viscosity solutions Moreover the authors provide an almost complete description of homogeneous solutions to fully nonlinear elliptic equations It is shown that even in the very restricted setting of Hessian equations depending only on the eigenvalues of the Hessian these equations admit homogeneous solutions of all orders compatible with known regularity for viscosity solutions provided the space dimension is five or larger To the contrary in dimension four or less the situation is completely different and our results suggest strongly that there are no nonclassical homogeneous solutions at all in dimensions three and four Thus this book gives a complete list of dimensions where nonclassical homogeneous solutions to fully nonlinear uniformly elliptic equations do exist this should be compared with the situation of say ten years ago when the very existence of nonclassical viscosity solutions was not known

Nonlinear Functional Analysis with Applications to Combustion Theory Kazuaki Taira, 2025-05-14 Explore the fascinating intersection of mathematics and combustion theory in this comprehensive monograph inspired by the pioneering work of N N Semenov and D A Frank Kamenetskii Delving into the nonlinear functional analytic approach this book examines semilinear elliptic boundary value problems governed by the Arrhenius equation and Newton's law of heat exchange Key topics include Detailed analysis of boundary conditions including isothermal Dirichlet and adiabatic Neumann cases Critical insights into ignition and extinction phenomena in stable steady temperature profiles linked to the Frank Kamenetskii parameter Sufficient conditions for multiple positive solutions revealing the S shaped bifurcation curves of these problems Designed for researchers and advanced students this monograph provides a deep understanding of nonlinear functional analysis and elliptic boundary value problems through their application to combustion and chemical reactor models Featuring detailed illustrations clearly labeled figures and tables this book ensures clarity and enhances comprehension of complex concepts

Whether you are exploring combustion theory functional analysis or applied mathematics this text offers profound insights and a thorough mathematical foundation *Geometry from the Pacific Rim* A. Jon Berrick, Bonaventure Loo, Hong-Yu Wang, 2011-07-20 No detailed description available for Geometry from the Pacific Rim

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