## Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen Band 158

Corneliu Constantinescu · Aurel Cornea

# Potential Theory on Harmonic Spaces



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## **Potential Theory On Harmonic Spaces**

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## **Potential Theory On Harmonic Spaces:**

Potential Theory on Harmonic Spaces Corneliu Constantinescu, Aurel Cornea, 1972 There has been a considerable revival of interest in potential theory during the last 20 years This is made evident by the appearance of new mathematical disciplines in that period which now a days are considered as parts of potential theory Examples of such disciplines are the theory of Choquet capacities of Dirichlet spaces of martingales and Markov processes of integral representation in convex compact sets as well as the theory of harmonic spaces All these theories have roots in classical potential theory The theory of harmonic spaces sometimes also called axiomatic theory of harmonic functions plays a particular role among the above mentioned theories On the one hand this theory has particularly close connections with classical potential theory Its main notion is that of a harmonic function and its main aim is the generalization and unification of classical results and methods for application to an extended class of elliptic and parabolic second order partial differential equations On the other hand the theory of harmonic spaces is closely related to the theory of Markov processes In fact all important notions and results of the theory have a probabilistic interpretation Potential Theory on Harmonic Spaces Corneliu Constantinescu, Aurel Cornea, 1972-12-05 There has been a considerable revival of interest in potential theory during the last 20 years. This is made evident by the appearance of new mathematical disciplines in that period which now a days are considered as parts of potential theory Examples of such disciplines are the theory of Choquet capacities of Dirichlet spaces of martingales and Markov processes of integral representation in convex compact sets as well as the theory of harmonic spaces All these theories have roots in classical potential theory. The theory of harmonic spaces sometimes also called axiomatic theory of harmonic functions plays a particular role among the above mentioned theories On the one hand this theory has particularly close connections with classical potential theory. Its main notion is that of a harmonic function and its main aim is the generalization and unification of classical results and methods for application to an extended class of elliptic and parabolic second order partial differential equations On the other hand the theory of harmonic spaces is closely related to the theory of Markov processes In fact all important notions and results of the theory have a probabilistic interpretation Potential Theory on Harmonic Spaces [by] Corneliu Constantinescu [and] Aurel Cornea Corneliu Constantinescu, 1972 Nonlinear Potential Theory on Metric Spaces Anders Björn, Jana Björn, 2011 The p Laplace equation is the main prototype for nonlinear elliptic problems and forms a basis for various applications such as injection moulding of plastics nonlinear elasticity theory and image processing Its solutions called p harmonic functions have been studied in various contexts since the 1960s first on Euclidean spaces and later on Riemannian manifolds graphs and Heisenberg groups Nonlinear potential theory of p harmonic functions on metric spaces has been developing since the 1990s and generalizes and unites these earlier theories This monograph gives a unified treatment of the subject and covers most of the available results in the field so far scattered over a large number of research papers The aim is to serve both as an introduction to the area for interested readers and as a

reference text for active researchers The presentation is rather self contained but it is assumed that readers know measure theory and functional analysis The first half of the book deals with Sobolev type spaces so called Newtonian spaces based on upper gradients on general metric spaces In the second half these spaces are used to study p harmonic functions on metric spaces and a nonlinear potential theory is developed under some additional but natural assumptions on the underlying metric space Each chapter contains historical notes with relevant references and an extensive index is provided at the end of the **Potential Theory** Jürgen Bliedtner, Wolfhard Hansen, 2012-12-06 During the last thirty years potential theory has undergone a rapid development much of which can still only be found in the original papers. This book deals with one part of this development and has two aims The first is to give a comprehensive account of the close connection between analytic and probabilistic potential theory with the notion of a balayage space appearing as a natural link The second aim is to demonstrate the fundamental importance of this concept by using it to give a straight presentation of balayage theory which in turn is then applied to the Dirichlet problem We have considered it to be beyond the scope of this book to treat further topics such as duality ideal boundary and integral representation energy and Dirichlet forms The subject matter of this book originates in the relation between classical potential theory and the theory of Brownian motion Both theories are linked with the Laplace operator However the deep connection between these two theories was first revealed in the papers of S KAKUTANI 1 2 3 M KAC 1 and J L DO DB 2 during the period 1944 54 This can be expressed by the fact that the harmonic measures which occur in the solution of the Dirichlet problem are hitting distributions for Brownian motion or equivalently that the positive hyperharmonic functions for the Laplace equation are the excessive functions of the Brownian semi group

<u>Dirichlet Integrals on Harmonic Spaces</u> F.-Y. Maeda, 2006-11-14 Potential Theory, Surveys and Problems Josef Kral, Jaroslav Lukes, Ivan Netuka, Jiri Vesely, 2007-02-08 The volume comprises eleven survey papers based on survey lectures delivered at the Conference in Prague in July 1987 which covered various facets of potential theory including its applications in other areas The survey papers deal with both classical and abstract potential theory and its relations to partial differential equations stochastic processes and other branches such as numerical analysis and topology A collection of problems from potential theory compiled on the occasion of the conference is included with additional commentaries in the second part of this volume Fine Topology Methods in Real Analysis and Potential Theory Jaroslav Lukes, Jan Maly, Ludek Zajicek,2006-11-14 **Potential Theory** Josef Kral, Jaroslav Lukes, Ivan Netuka, Jiri Vesely, 2012-12-06 Within the tradition of meetings devoted to potential theory a conference on potential theory took place in Prague on 19 24 July 1987 The Conference was organized by the Faculty of Mathematics and Physics Charles University with the collaboration of the Institute of Mathematics Czechoslovak Academy of Sciences the Department of Mathematics Czech University of Technology the Union of Czechoslovak Mathematicians and Physicists the Czechoslovak Scientific and Technical Society and supported by IMU During the Conference 69 scientific communications from different branches of potential theory were presented the

majority of them are in cluded in the present volume Papers based on survey lectures delivered at the Conference its program as well as a collection of problems from potential theory will appear in a special volume of the Lecture Notes Series published by Springer Verlag Topics of these communications truly reflect the vast scope of contemporary potential theory Some contributions deal with applications in physics and engineering other concern potential theoretic aspects of function theory and complex analysis Numerous papers are devoted to the theory of partial differential equations Included are also many articles on axiomatic and abstract potential theory with its relations to probability theory. The present volume may thus be of intrest to mathematicians specializing in the above mentioned fields and also to everybody interested in the present state of potential theory as a whole Potential Theory M. Brelot, 2011-06-06 M Brelot Historical introduction H Bauer Harmonic spaces and associated Markov processes J M Bony Op rateurs elliptiques d g n r s associ s aux axiomatiques de la theorie du potentiel J Deny M thodes hilbertiennes en theory du potentiel J L Doob Martingale theory Potential theory G Mokobodzki C nes de potentiels et noyaux subordonn s Harmonic Functions and Potentials on Finite or Infinite Networks Victor Anandam, 2011-06-27 Random walks Markov chains and electrical networks serve as an introduction to the study of real valued functions on finite or infinite graphs with appropriate interpretations using probability theory and current voltage laws The relation between this type of function theory and the Newton potential theory on the Euclidean spaces is well established The latter theory has been variously generalized one example being the axiomatic potential theory on locally compact spaces developed by Brelot with later ramifications from Bauer Constantinescu and Cornea A network is a graph with edge weights that need not be symmetric This book presents an autonomous theory of harmonic functions and potentials defined on a finite or infinite network on the lines of axiomatic potential theory Random walks and electrical networks are important sources for the advancement of the theory Harmonic Analysis and Discrete Potential Theory M.A. Picardello, 2013-11-11 This book collects the Proceedings of a Congress held in Frascati Rome in the period July 1 July 10 1991 on the subject of harmonic analysis and discrete potential theory and related topics. The Congress was made possible by the financial support of the Italian National Research Council Gruppo GNAFA the Ministry of University Gruppo Analisi Funzionale of the University of Milano the University of Rome Tor Vergata and was also patronized by the Centro Vito Volterra of the University of Rome Tor Vergata Financial support for publishing these Proceedings was provided by the University of Rome Tor Vergata and by a generous contribution of the Centro Vito Volterra I am happy of this opportunity to acknowledge the generous support of all these Institutions and to express my gratitude and that of all the participants A number of distinguished mathematicians took part in the Congress Here is the list of participants M Babillot F Choucroun Th Coulhon L Elie F Ledrappier N Th Varopoulos Paris L Gallardo Brest Ph Bougerol B Roynette Nancy O Gebuhrer Strasbourg G Ahumada Bustamante Mulhouse A Valette Neuchatel P Gerl Salzburg W Hansen H Leptin Bielefeld M Bozejko A Hulanicki T Pytlik Wrocław C Thomassen Lyngby P Sjogren Goteborg V Kaimanovich Leningrad A Nevo Jerusalem T Steger Chicago S

Sawyer M Taibleson G Weiss St Louis J Cohen S S ali ani Maryland D Voiculescu Berkeley A Zemanian Stony Brook S Northshield Plattsburgh J Taylor Montreal J Classical Potential Theory and Its Probabilistic Counterpart Joseph L. Doob, 2012-12-06 From the reviews This huge book written in several years by one of the few mathematicians able to do it appears as a precise and impressive study not very easy to read of this bothsided guestion that replaces in a coherent way without being encyclopaedic a large library of books and papers scattered without a uniform language Instead of summarizing the author gives his own way of exposition with original complements This requires no preliminary knowledge The purpose which the author explains in his introduction i e a deep probabilistic interpretation of potential theory and a link between two great theories appears fulfilled in a masterly manner M Brelot in Metrika 1986 Introduction to Heat Potential Theory N. A. Watson, 2012 This book is the first to be devoted entirely to the potential theory of the heat equation and thus deals with time dependent potential theory. Its purpose is to give a logical mathematically precise introduction to a subject where previously many proofs were not written in detail due to their similarity with those of the potential theory of Laplace s equation The approach to subtemperatures is a recent one based on the Poisson integral representation of temperatures on a circular cylinder Characterizations of subtemperatures in terms of heat balls and modified heat balls are proved and thermal capacity is studied in detail The generalized Dirichlet problem on arbitrary open sets is given a treatment that reflects its distinctive nature for an equation of parabolic type Also included is some new material on caloric measure for arbitrary open sets Each chapter concludes with bibliographical notes and open questions The reader should have a good background in the calculus of functions of several variables in the limiting processes and inequalities of analysis in measure theory and in general topology for Chapter 9 Potential Theory on Infinite-Dimensional Abelian Groups Alexander Bendikov, 2011-04-20 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 30 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob Potential Theory and Right Processes Lucian Beznea, Nicu Boboc, 2012-11-02 Further results are

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Potential Theory Masanori Kishi, 2011-05-02 No detailed description available for Potential Theory **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 R n These sets are defined relative to the coarsest topology on 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 C n and its applications to pluripotential theory. These open sets are defined by coarsest topology that renders all plurisubharmonic functions continuous on 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 **Nonlinear Evolution Equations** and Potential Theory J. Kral, 2012-12-06 Preface Gottfried Anger Direct and inverse problems in potential theory Viorel Barbu Regularity results for sane differential equations associated with maximal monotone operators in Hilbert spaces Haim Brezis Classes d interpolation associ es un op rateur monotone et applications Siegfried Dn mmel On inverse problems for k dimensional potentials Jozef Ka ur Application of Rothe s method to nonlinear parabolic boundary value problems Josef Kr l Potentials and removability of singularities Vladimir Lovicar Theorem of Fr chet and asymptotically almost periodid solutions Algebraic Potential Theory Maynard Arsove, Heinz Leutwiler, 1980 Global aspects of classical and axiomatic of potential theory are developed in a purely algebraic way in terms of a new algebraic structure called a mixed lattice semigroup This generalizes the notion of a Riesz space vector lattice by replacing the usual symmetrical lower and upper envelopes by unsymmetrical mixed lower and upper envelopes formed relative to specific order on the first element and initial order on the second The treatment makes essential use of a calculus of mixed envelopes in which the main formulas and inequalities are derived through the use of certain semigroups of nonlinear operators Techniques based on these operator semigroups are new even in the classical setting

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