

DAVID H. ARMITAGE AND STEPHEN J. GARDINER

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David H Armitage, Stephen J Gardiner



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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 question 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

Classical and Modern Potential Theory and Applications K. GowriSankaran, J. Bliedtner, D. Feyel, M. Goldstein, W.K. Hayman, I. Netuka, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Chateau de Bonas France July 25 31 1993

Brownian Motion and Classical Potential Theory Sidney Port, 2012-12-02 Brownian Motion and Classical Potential Theory is a six chapter text that discusses the connection between Brownian motion and classical potential theory The first three chapters of this book highlight the developing properties of Brownian motion with results from potential theory The subsequent chapters are devoted to the harmonic and superharmonic functions as well as the Dirichlet problem These topics are followed by a discussion on the transient potential theory of Green potentials with an emphasis on the Newtonian potentials as well as the recurrent potential theory of logarithmic potentials The last chapters deal with the application of Brownian motion to obtain the main theorems of classical potential theory This book will be of value to physicists chemists and biologists

Classical Potential Theory and Its Probabilistic Counterpart J. L. Doob, 2011-09-26 Potential theory and certain aspects of probability theory are intimately related perhaps most obviously in that the transition function determining a Markov process can be used to define the Green function of a potential theory Thus it is possible to define and develop many potential theoretic concepts probabilistically a procedure potential theorists observe with jaundiced eyes in view of the fact that now as in the past their subject provides the motivation for much of Markov

process theory However that may be it is clear that certain concepts in potential theory correspond closely to concepts in probability theory specifically to concepts in martingale theory For example superharmonic functions correspond to supermartingales More specifically the Fatou type boundary limit theorems in potential theory correspond to supermartingale convergence theorems the limit properties of monotone sequences of superharmonic functions correspond surprisingly closely to limit properties of monotone sequences of super martingales certain positive superharmonic functions supermartingales are called potentials have associated measures in their respective theories and are subject to domination principles inequalities involving the supports of those measures in each theory there is a reduction operation whose properties are the same in the two theories and these reductions induce sweeping balayage of the measures associated with potentials and so on

Classical Potential Theory David H Armitage, Stephen J Gardiner, 2000-12-12 Classical Potential Theory David H. Armitage, Stephen J. Gardiner, 2000-10-27 A long awaited updated introductory text by the world leaders in potential theory This essential reference work covers all aspects of this major field of mathematical research from basic theory and exercises to more advanced topological ideas The largely self contained presentation makes it basically accessible to graduate students

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 John Wermer, 2014-01-15 Potential Theory Lester L. Helms, 2014-04-10 Potential Theory presents a clear path from calculus to classical potential theory and beyond with the aim of moving the reader into the area of mathematical research as quickly as possible The subject matter is developed from first principles using only calculus Commencing with the inverse square law for gravitational and electromagnetic forces and the divergence theorem the author develops methods for constructing solutions of Laplace s equation on a region with prescribed values on the boundary of the region The latter half of the book addresses more advanced material aimed at those with the background of a senior undergraduate or beginning graduate course in real analysis Starting with solutions of the Dirichlet problem subject to mixed boundary conditions on the simplest of regions

methods of morphing such solutions onto solutions of Poisson's equation on more general regions are developed using diffeomorphisms and the Perron Wiener Brelot method culminating in application to Brownian motion In this new edition many exercises have been added to reconnect the subject matter to the physical sciences This book will undoubtedly be useful to graduate students and researchers in mathematics physics and engineering

Problems in Classical Potential Theory with Applications to Mathematical Physics Erik Lundberg, 2011 In this thesis we are interested in some problems regarding harmonic functions The topics are divided into three chapters Chapter 2 concerns singularities developed by solutions of the Cauchy problem for a holomorphic elliptic equation especially Laplace's equation The principal motivation is to locate the singularities of the Schwarz potential The results have direct applications to Laplacian growth or the Hele Shaw problem Chapter 3 concerns the Dirichlet problem when the boundary is an algebraic set and the data is a polynomial or a real analytic function We pursue some questions related to the Khavinson Shapiro conjecture A main topic of interest is analytic continuability of the solution outside its natural domain Chapter 4 concerns certain complex valued harmonic functions and their zeros The special cases we consider apply directly in astrophysics to the study of multiple image gravitational lenses

Potential Theory J. Wermer, 2006-11-15

Potential Theory on Locally Compact Abelian Groups C. van den Berg, G. Forst, 2012-12-06 Classical potential theory can be roughly characterized as the study of Newtonian potentials and the Laplace operator on the Euclidean space \mathbb{R}^3 It was discovered around 1930 that there is a profound connection between classical potential theory and the theory of Brownian motion in \mathbb{R}^n The Brownian motion is determined by its semigroup of transition probabilities the Brownian semigroup and the connection between classical potential theory and the theory of Brownian motion can be described analytically in the following way The Laplace operator is the infinitesimal generator for the Brownian semigroup and the Newtonian potential kernel is the integral of the Brownian semigroup with respect to time This connection between classical potential theory and the theory of Brownian motion led Hunt and Hunt [2] to consider general potential theories defined in terms of certain stochastic processes or equivalently in terms of certain semigroups of operators on spaces of functions The purpose of the present exposition is to study such general potential theories where the following aspects of classical potential theory are preserved i The theory is defined on a locally compact abelian group ii The theory is translation invariant in the sense that any translate of a potential or a harmonic function is again a potential respectively a harmonic function this property of classical potential theory can also be expressed by saying that the Laplace operator is a differential operator with constant coefficients

Linear Holomorphic Partial Differential Equations and Classical Potential Theory Dmitry Khavinson, Erik Lundberg, 2018-07-09 Why do solutions of linear analytic PDE suddenly break down What is the source of these mysterious singularities and how do they propagate Is there a mean value property for harmonic functions in ellipsoids similar to that for balls Is there a reflection principle for harmonic functions in higher dimensions similar to the Schwarz reflection principle in the plane How far outside of their

natural domains can solutions of the Dirichlet problem be extended Where do the continued solutions become singular and why This book invites graduate students and young analysts to explore these and many other intriguing questions that lead to beautiful results illustrating a nice interplay between parts of modern analysis and themes in physical mathematics of the nineteenth century To make the book accessible to a wide audience including students the authors do not assume expertise in the theory of holomorphic PDE and most of the book is accessible to anyone familiar with multivariable calculus and some basics in complex analysis and differential equations

Complex Potential Theory Paul M. Gauthier, 2012-12-06

Proceedings of the NATO Advanced Study Institute and Séminaire de mathématiques supérieures Montréal Canada July 26 August 6 1993

Holomorphic Partial Differential Equations and Classical Potential Theory Dmitry

Khavinson, 1996-06-01

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 DOOB 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

Probability Theory Lucien Marie Le Cam, Jerzy Neyman, Elizabeth L. Scott, 1972

Function Spaces and Potential Theory David R. Adams, Lars I. Hedberg, 1996 The subject of this book is the interplay between function space theory and potential theory A crucial step in classical potential theory is the identification of the potential energy of a charge with the square of a Hilbert space norm This leads to the Dirichlet space of locally integrable functions whose gradients are square integrable More recently a generalized potential theory has been developed which has an analogous relationship to the standard Banach function spaces Sobolev spaces Besov spaces etc that appear naturally in the study of partial differential equations A surprisingly large part of classical potential theory has been extended to this nonlinear setting The extensions are sometimes surprising usually they are nontrivial and have required new methods

Potential Theory and Right Processes Lucian Beznea, Nicu Boboc, 2012-11-02 Further results are related to the subordination operators and measure perturbations The subject matter is supplied with a probabilistic counterpart involving

the homogeneous random measures multiplicative left and co natural additive functionals Jacket

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