

DAVID H. ARMITAGE AND STEPHEN J. GARDINER

Classical Potential Theory



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Classical Potential Theory Classical Potential Theory

Lester L. Helms



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Classical Potential Theory David H. Armitage, Stephen J. Gardiner, 2012-12-06 From its origins in Newtonian physics potential theory has developed into a major field of mathematical research This book provides a comprehensive treatment of classical potential theory it covers harmonic and subharmonic functions maximum principles polynomial expansions Green functions potentials and capacity the Dirichlet problem and boundary integral representations The first six chapters deal concretely with the basic theory and include exercises The final three chapters are more advanced and treat topological ideas specifically created for potential theory such as the fine topology the Martin boundary and minimal thinness The presentation is largely self contained and is accessible to graduate students the only prerequisites being a reasonable grounding in analysis and several variables calculus and a first course in measure theory The book will prove an essential reference to all those with an interest in potential theory and its applications

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 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

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