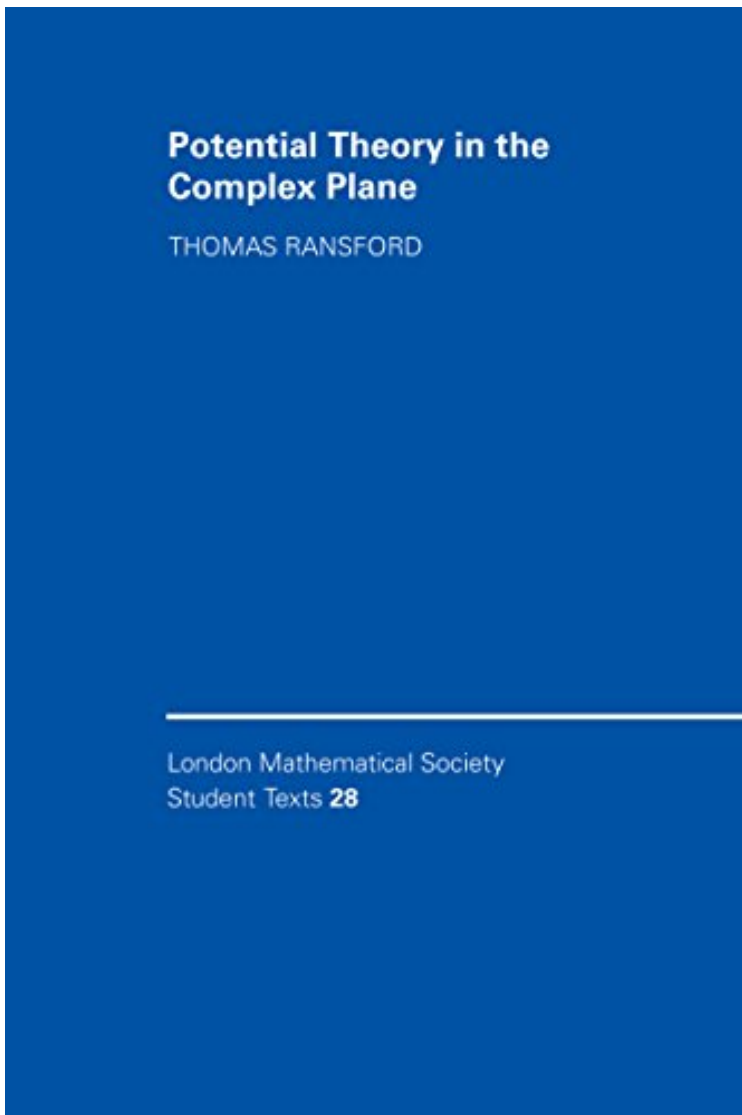


(Online library) File size: 18.Mb

# Potential Theory in the Complex Plane



*Par Thomas Ransford*  
*\*Download PDF | ePub | DOC | audiobook | ebooks*

Dtails sur le produit Publi le: 1995-03-16  
Sorti le: 1995-03-16  
Format: Ebook  
Kindle

(Online library) Potential Theory in the Complex Plane

**Par Thomas Ransford : Potential Theory in the Complex Plane** before purchasing it in order to gage whether or not it would be worth my time, and all praised Potential Theory in the Complex Plane:

Download

Read Online

## Description :

Prsentation de l'diteurPotential theory is the broad area of mathematical analysis encompassing such topics as harmonic and subharmonic functions, the Dirichlet problem, harmonic measure, Green's functions, potentials and capacity. This is an introduction to the subject suitable for beginning graduate students, concentrating on the important case of two dimensions. This permits a simpler treatment than other books, yet is still sufficient for a wide range of applications to complex analysis; these include Picard's theorem, the PhragmnLindelf principle, the Koebe one-quarter mapping theorem and a sharp quantitative form of Runge's theorem. In addition there is a chapter on connections with functional analysis and dynamical systems, which shows how the theory can be applied to other parts of mathematics, and gives a flavour of some recent research. Exercises are provided throughout, enabling the book to be used with advanced courses on

complex analysis or potential theory. Revue de presse 'This book is an engaging addition to the estimable London Mathematical Student Text Series. An excellent text; my compliments to the author.' The Mathematical Intelligencer Presentation de l'éditeur Potential theory is the broad area of mathematical analysis encompassing such topics as harmonic and subharmonic functions, the Dirichlet problem, harmonic measure, Green's functions, potentials and capacity. This is an introduction to the subject suitable for beginning graduate students, concentrating on the important case of two dimensions. This permits a simpler treatment than other books, yet is still sufficient for a wide range of applications to complex analysis; these include Picard's theorem, the Phragmén-Lindelöf principle, the Koebe one-quarter mapping theorem and a sharp quantitative form of Runge's theorem. In addition there is a chapter on connections with functional analysis and dynamical systems, which shows how the theory can be applied to other parts of mathematics, and gives a flavour of some recent research. Exercises are provided throughout, enabling the book to be used with advanced courses on complex analysis or potential theory.