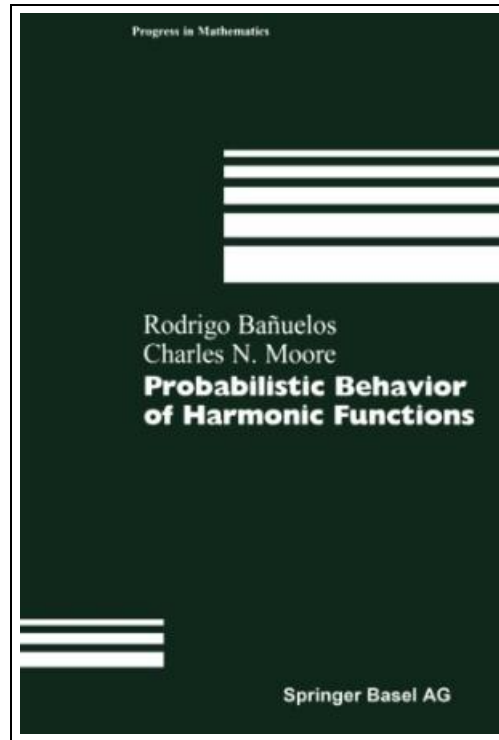


## Probabilistic Behavior of Harmonic Functions



Filesize: 4.54 MB

### **Reviews**

*It is really an awesome ebook that I have ever read. It typically fails to expense a lot of. I am very easily can get a enjoyment of studying a written ebook.*




**(Delphia Fay)**

## PROBABILISTIC BEHAVIOR OF HARMONIC FUNCTIONS



To save **Probabilistic Behavior of Harmonic Functions** eBook, remember to access the button beneath and save the file or get access to additional information which are highly relevant to PROBABILISTIC BEHAVIOR OF HARMONIC FUNCTIONS book.

Book Condition: New. Publisher/Verlag: Springer, Basel | Harmonic analysis and probability have long enjoyed a mutually beneficial relationship that has been rich and fruitful. This monograph, aimed at researchers and students in these fields, explores several aspects of this relationship. The primary focus of the text is the nontangential maximal function and the area function of a harmonic function and their probabilistic analogues in martingale theory. The text first gives the requisite background material from harmonic analysis and discusses known results concerning the nontangential maximal function and area function, as well as the central and essential role these have played in the development of the field. The book next discusses further refinements of traditional results: among these are sharp good-lambda inequalities and laws of the iterated logarithm involving nontangential maximal functions and area functions. Many applications of these results are given. Throughout, the constant interplay between probability and harmonic analysis is emphasized and explained. The text contains some new and many recent results combined in a coherent presentation. | 1 Basic Ideas and Tools.- 1.1 Harmonic functions and their basic properties.- 1.2 The Poisson kernel and Dirichlet problem for the ball.- 1.3 The Poisson kernel and Dirichlet problem for  $\mathbb{R}^{n+1}$ .- 1.4 The Hardy-Littlewood and nontangential maximal functions.- 1.5 HP spaces on the upper half space.- 1.6 Some basics on singular integrals.- 1.7 The g-function and area function.- 1.8 Classical results on boundary behavior.- 2 Decomposition into Martingales: An Invariance Principle.- 2.1 Square function estimates for sums of atoms.- 2.2 Decomposition of harmonic functions.- 2.3 Controlling errors: gradient estimates.- 3 Kolmogorov's LIL for Harmonic Functions.- 3.1 The proof of the upper-half.- 3.2 The proof of the lower-half.- 3.3 The sharpness of the Kolmogorov condition.- 3.4 A related LIL for the Littlewood-Paley g -function.- 4 Sharp Good-? Inequalities for A and N.- 4.1...

-  [Read Probabilistic Behavior of Harmonic Functions Online](#)
-  [Download PDF Probabilistic Behavior of Harmonic Functions](#)
-  [Download ePUB Probabilistic Behavior of Harmonic Functions](#)

## Related PDFs



**[PDF] TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)**

Click the link listed below to download and read "TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)" document.

[Save ePub »](#)



**[PDF] Homeschool Your Child for Free: More Than 1,400 Smart, Effective, and Practical Resources for Educating Your Family at Home**

Click the link listed below to download and read "Homeschool Your Child for Free: More Than 1,400 Smart, Effective, and Practical Resources for Educating Your Family at Home" document.

[Save ePub »](#)



**[PDF] Edge] the collection stacks of children's literature: Chunyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)**

Click the link listed below to download and read "Edge] the collection stacks of children's literature: Chunyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)" document.

[Save ePub »](#)



**[PDF] DK Readers Day at Greenhill Farm Level 1 Beginning to Read**

Click the link listed below to download and read "DK Readers Day at Greenhill Farm Level 1 Beginning to Read" document.

[Save ePub »](#)



**[PDF] Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)**

Click the link listed below to download and read "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" document.

[Save ePub »](#)



**[PDF] Tales from Little Ness - Book One: Book 1**

Click the link listed below to download and read "Tales from Little Ness - Book One: Book 1" document.

[Save ePub »](#)

**[PDF] Read Write Inc. Phonics: Blue Set 6 Storybook 1 Barker**

Access the web link below to read "Read Write Inc. Phonics: Blue Set 6 Storybook 1 Barker" PDF file.

[Save eBook »](#)

**[PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

Access the web link below to read "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" PDF file.

[Save eBook »](#)

**[PDF] Read Write Inc. Phonics: Green Set 1 Storybook 4 the Spell**

Access the web link below to read "Read Write Inc. Phonics: Green Set 1 Storybook 4 the Spell" PDF file.

[Save eBook »](#)

**[PDF] Read Write Inc. Phonics: Orange Set 4 Non-Fiction 1 Jam Tarts**

Access the web link below to read "Read Write Inc. Phonics: Orange Set 4 Non-Fiction 1 Jam Tarts" PDF file.

[Save eBook »](#)

**[PDF] Read Write Inc. Phonics: Green Set 1 Non-Fiction 3 Let s Go!**

Access the web link below to read "Read Write Inc. Phonics: Green Set 1 Non-Fiction 3 Let s Go!" PDF file.

[Save eBook »](#)

**[PDF] Read Write Inc. Phonics: Green Set 1 Storybook 6 Tug, Tug**

Access the web link below to read "Read Write Inc. Phonics: Green Set 1 Storybook 6 Tug, Tug" PDF file.

[Save eBook »](#)