

<<高阶无限 第2版>>

图书基本信息

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## 内容概要

My first thanks goes to Gert Miiller who initially suggested this project and persisted in its encouragement. Thanks also to Thomas Orowan who went through many iterations of the difficult typing in the early stages. James Baumgartner, Howard Becket, and Jose Ruiz read through large portions of the text and offered extensive suggestions.

书籍目录

Introduction

0 . Preliminaries

Chapter 1 . Beginnings

1 . Inaccessibility

2 . Measurability

3 . Constructibility

4 . Compactness

5 . Elementary Embeddings

6 . Indescribability

Chapter 2 . Partition Properties

7 . Partitions and Trees

8 . Partitions and Structures

9 . Indiscernibles and  $\aleph_0$

Chapter 3 . Forcing and Sets of Reals

10 . Development of Forcing

11 . Lebesgue Measurability

12 . Descriptive Set Theory

13 .  $\aleph_1$ -Sets and  $\aleph_2$ -Sets

14 .  $\aleph_2$ -Sets and Sharps

15 . Sharps and  $\aleph_3$ -Sets

Chapter 4 . Aspects of Measurability

16 . Saturated Ideals

17 . Saturated Ideals

18 . Prikry Forcing

19 . Iterated Ultrapowers

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Subject Index

## 章节摘录

First, the various hypotheses though arising from diverse motivations and historical happenstance nonetheless form a linear hierarchy, one neatly delimited by Kunen's inconsistency result. Typically for two large cardinal hypotheses, below a cardinal satisfying one there are many cardinals satisfying the other, in a sense prescribed by the first. Moreover, the weaker hypotheses through strong forms of measurability have been bolstered by a variety of equiconsistency results involving combinatorial propositions low in the cumulative hierarchy. In this respect, particularly intriguing is the work on the Singular Cardinals Problem, which showed that something as basic as rendering  $2^\kappa$  large for singular strong limit cardinals  $\kappa$  essentially requires large cardinals. Finally, a variety of strong propositions have been informatively bracketed in consistency strength between two large cardinal hypotheses: The stronger hypothesis implies that there is a forcing extension in which the proposition obtains; and if the proposition obtains, there is an inner model satisfying the weaker hypothesis. Supercompactness has often figured as the upper bound, but sometimes  $n$ -hugeness and even the hypotheses just short of Kunen's inconsistency have played this role. ( This wide-ranging exploration is the subject of volume II. ) .....

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