

部分习题答案

Chapter 10

3. Prove that if f is a real function on a measurable space X such that $\{x : f(x) \geq r\}$ is measurable for every rational r , then f is measurable.

[proof] For each real number α , there exists an decreasing sequence $\{r_n\}$ of rational numbers such that $\lim_{n \rightarrow \infty} r_n = \alpha$. Moreover, we have

$$(\alpha, +\infty) = \bigcup_{n=1}^{\infty} (r_n, +\infty).$$

Hence,

$$f^{-1}((\alpha, +\infty)) = \bigcup_{n=1}^{\infty} f^{-1}(r_n, +\infty).$$

Since sets $f^{-1}(r_n, +\infty)$ are measurable for each n , the set $f^{-1}((\alpha, +\infty))$ is also measurable. Thus f is measurable.

4. Let $\{a_n\}$ and $\{b_n\}$ be sequences in $[-\infty, +\infty]$, and prove the following assertions:

(a)

$$\limsup_{n \rightarrow \infty} (-a_n) = -\liminf_{n \rightarrow \infty} a_n.$$

(b)

$$\limsup_{n \rightarrow \infty} (a_n + b_n) \leq \limsup_{n \rightarrow \infty} a_n + \limsup_{n \rightarrow \infty} b_n,$$

provided none of the terms is of the form $\infty - \infty$.

(c) If $a_n \leq b_n$ for all n , then

$$\liminf_{n \rightarrow \infty} a_n \leq \liminf_{n \rightarrow \infty} b_n.$$

Show by an example that strict inequality can hold in (c).

[proof] (a) Since

$$\sup_{k \geq n} (-a_k) = -\inf_{k \geq n} a_k, \quad n = 1, 2, \dots,$$

Therefore, let $\alpha = \lim_{n \rightarrow \infty} \sup_{k \geq n} (-a_k)$, it follows

$$\lim_{n \rightarrow \infty} \sup_{k \geq n} (-a_k) = -\lim_{n \rightarrow \infty} \inf_{k \geq n} a_k.$$

Rudin Analysis Solutions Chapter 1

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Rudin Analysis Solutions Chapter 1:

The book delves into Rudin Analysis Solutions Chapter 1. Rudin Analysis Solutions Chapter 1 is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Rudin Analysis Solutions Chapter 1, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Rudin Analysis Solutions Chapter 1
 - Chapter 2: Essential Elements of Rudin Analysis Solutions Chapter 1
 - Chapter 3: Rudin Analysis Solutions Chapter 1 in Everyday Life
 - Chapter 4: Rudin Analysis Solutions Chapter 1 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Rudin Analysis Solutions Chapter 1. This chapter will explore what Rudin Analysis Solutions Chapter 1 is, why Rudin Analysis Solutions Chapter 1 is vital, and how to effectively learn about Rudin Analysis Solutions Chapter 1.
3. In chapter 2, this book will delve into the foundational concepts of Rudin Analysis Solutions Chapter 1. This chapter will elucidate the essential principles that must be understood to grasp Rudin Analysis Solutions Chapter 1 in its entirety.
4. In chapter 3, this book will examine the practical applications of Rudin Analysis Solutions Chapter 1 in daily life. The third chapter will showcase real-world examples of how Rudin Analysis Solutions Chapter 1 can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Rudin Analysis Solutions Chapter 1 in specific contexts. This chapter will explore how Rudin Analysis Solutions Chapter 1 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Rudin Analysis Solutions Chapter 1. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Rudin Analysis Solutions Chapter 1.

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Table of Contents Rudin Analysis Solutions Chapter 1

1. Understanding the eBook Rudin Analysis Solutions Chapter 1
 - The Rise of Digital Reading Rudin Analysis Solutions Chapter 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Rudin Analysis Solutions Chapter 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Rudin Analysis Solutions Chapter 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Rudin Analysis Solutions Chapter 1
 - Personalized Recommendations
 - Rudin Analysis Solutions Chapter 1 User Reviews and Ratings
 - Rudin Analysis Solutions Chapter 1 and Bestseller Lists
5. Accessing Rudin Analysis Solutions Chapter 1 Free and Paid eBooks
 - Rudin Analysis Solutions Chapter 1 Public Domain eBooks
 - Rudin Analysis Solutions Chapter 1 eBook Subscription Services
 - Rudin Analysis Solutions Chapter 1 Budget-Friendly Options
6. Navigating Rudin Analysis Solutions Chapter 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Rudin Analysis Solutions Chapter 1 Compatibility with Devices
 - Rudin Analysis Solutions Chapter 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rudin Analysis Solutions Chapter 1
 - Highlighting and Note-Taking Rudin Analysis Solutions Chapter 1
 - Interactive Elements Rudin Analysis Solutions Chapter 1

8. Staying Engaged with Rudin Analysis Solutions Chapter 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Rudin Analysis Solutions Chapter 1
9. Balancing eBooks and Physical Books Rudin Analysis Solutions Chapter 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rudin Analysis Solutions Chapter 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Rudin Analysis Solutions Chapter 1
 - Setting Reading Goals Rudin Analysis Solutions Chapter 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rudin Analysis Solutions Chapter 1
 - Fact-Checking eBook Content of Rudin Analysis Solutions Chapter 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Rudin Analysis Solutions Chapter 1 Introduction

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