

<<傅立叶分析导论>>

图书基本信息

书名：<<傅立叶分析导论>>

13位ISBN编号：9787506272872

10位ISBN编号：7506272873

出版时间：2006-1

出版时间：世界图书出版公司

作者：Elias M. Stein

页数：311

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<傅立叶分析导论>>

前言

Any effort to present an overall view of analysis must at its start deal with the following questions : Where does one begin? What are the initial subjects to be treated , and in what order are the relevant concepts and basic techniques to be developed? . Our answers to these questions are guided by our view of the centrality of Fourier analysis , both in the role it has played in the development of the subject , and in the fact that its ideas permeate much of the presentday analysis. For these reasons we]lave devoted this first volume to an.

<<傅立叶分析导论>>

内容概要

本书由在国际上享有盛誉的普林斯顿大学教授Stein撰写而成，是一部傅立叶分析的入门教材，理论与实践并重。

为了便于非数学专业的学生学习，全书内容简明、易懂。

全书分为3部分：第1部分介绍傅立叶级数的基本理论及其在等周不等式和等分布中的应用；第2部分研究傅立叶变换及其在经典偏微分方程及Radom变换中的应用；第3部分研究有限阿贝尔群上的傅立叶分析。

书中各章均有练习题及思考题。

<<傅立叶分析导论>>

作者简介

作者Stein在国际上享有盛誉，现任美国普林斯顿大学数学系教授，是当代分析，特别是调和分析领域领袖人物之一。

1974年被选为美国国家科学院院士，1982年被选为美国文理学院院士，1984年获美国数学会的Steele奖，1993年获得瑞士科学院颁发的Stchock奖，1999年获得世界性Wolf数学奖。

<<傅立叶分析导论>>

书籍目录

Foreword Preface Chapter 1. The Genesis of Fourier Analysis 1 The vibrating string 2 The heat equation 3 Exercises 4 Problem Chapter 2. Basic Properties of Fourier Series 1 Examples and formulation of the problem 2 Uniqueness of Fourier series 3 Convolutions 4 Good kernels 5 Cesaro and Abel summability : applications to Fourier series 6 Exercises 7 Problem Chapter 3. Covergence of Fourier Series 1 Mean-square convergence of Fourier Series 2 Return to Pointwise Convergence 3 Exercises 4 Problem Chapter 4. Some Applications of Fourier Series 1 The isoperimetric inequality 2 Weyl's equidistribution theorem 3 A Continuous but nowhere differentiable function 4 The heat equation on the circle 5 Exercises 7 Problems Chapter 5. The Fourier Transform on \mathbb{R} 1 Elementary theory of the Fourier transform 2 Applictions to some partial differential equations 3 The poisson summation formula 4 The Heisenberg uncertainty principle 5 Exercises 6 Problems Chapter 6. The Fourier Transform on \mathbb{R}^d 1 Preliminaries 2 Elementary of the Fourier transform 3 The wave equation in $\mathbb{R}^d \times \mathbb{R} \dots$ Chapter 7 Finite Fourier Analysis Chapter 8 Dirichlet's Theorem Appendix: Integration Notes and References Bibliography Symbol Glossary

<<傅立叶分析导论>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>