

<<泛函分析教程>>

图书基本信息

书名：<<泛函分析教程>>

13位ISBN编号：9787506259514

10位ISBN编号：7506259516

出版时间：2003-6

出版时间：北京世图

作者：J.B.Conway

页数：399

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>

<<泛函分析教程>>

内容概要

CHAPTER I Hilbert Spaces、CHAPTER Operators on Hilbert Space、CHAPTER Banach Spaces、CHAPTER IV Locally Convex Spaces、CHAPTER V Weak Topologies、CHAPTER Linear Operators on a Banach Space、CHAPTER Banach Algebras and Spectral Theory for Operators on a Banach Space、CHAPTER C-Algebras、CHAPTER Normal operators on Hilbert Space、CHAPTER Unbounded Operators、CHAPTER Fredholm Theory等。

书籍目录

Preface
 Preface to the Second Edition
 CHAPTER I Hilbert Spaces 1.Elementary Properties and Examples
 2.Orthogonality 3.The Riesz Representation Theorem 4.Orthonormal Sets of Vectors and Bases
 5.Isomorphic Hilbert Spaces and the Fourier Transform for the Circle 6.The Direct Sum of Hilbert
 Spaces
 CHAPTER II Operators on Hilbert Space 1.Elementary Properties and Examples 2.The Adjoint of an
 Operator 3.Projections and Idempotents; Invariant and Reducing Subspaces 4.Compact Operators 5.* The
 Diagonalization of Compact Self-Adjoint Operators 6.* An Application: Sturm-Liouville Systems 7.* The
 Spectral Theorem and Functional Calculus for Compact Normal Operators 8.* Unitary Equivalence for
 Compact Normal Operators
 CHAPTER III Banach Spaces 1.Elementary Properties and Examples 2.Linear
 Operators on Normed Spaces 3.Finite Dimensional Normed Spaces 4.Quotients and Products of Normed
 Spaces 5.Linear Functionals 6.The Hahn-Banach Theorem 7.* An Application: Banach Limits 8.* An
 Application: Runge's Theorem 9.* An Application: Ordered Vector Spaces 10.* The Dual of a Quotient Space
 and a Subspace 11.Reflexive Spaces 12.The Open Mapping and Closed Graph Theorems 13.Complemented
 Subspaces of a Banach Space 14.The Principle of Uniform Boundedness
 CHAPTER IV Locally Convex Spaces
 1.Elementary Properties and Examples 2.Metrizable and Normable Locally Convex Spaces 3.Some
 Geometric Consequences of the Hahn-Banach Theorem 4.* Some Examples of the Dual Space of a Locally
 Convex Space 5.* Inductive Limits and the Space of Distributions
 CHAPTER V Weak Topologies 1.Duality
 2.The Dual of a Subspace and a Quotient Space 3.Alaoglu's Theorem 4.Reflexivity Revisited 5.Separability
 and Metrizable 6.* An Application: The Stone-t ech Compactification 7.The Krein-Milman Theorem
 8.An Application: The Stone-Weierstrass Theorem 9.* The Schauder Fixed Point Theorem 10.* The
 Ryll-Nardzewski Fixed Point Theorem 11.* An Application: Haar Measure on a Compact Group 12.* The
 Krein-Smulian Theorem 13.* Weak Compactness
 CHAPTER VI Linear Operators on a Banach
 Space
 CHAPTER VII Banach Agebras and Spectral Theory for Operators on a Banach Space
 CHAPTER VIII
 C-Algebras
 CHAPTER IX Normal Operators on Hilbert Space
 CHAPTER X Unbounded Operators
 CHAPTER
 XI Fredholm Theory
 APPENDIX A
 APPENDIX B
 APPENDIX C
 Bibliography
 List of Symbols
 Index

<<泛函分析教程>>

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>