Elements of Functional Analysis

Graduate Texts in Mathematics
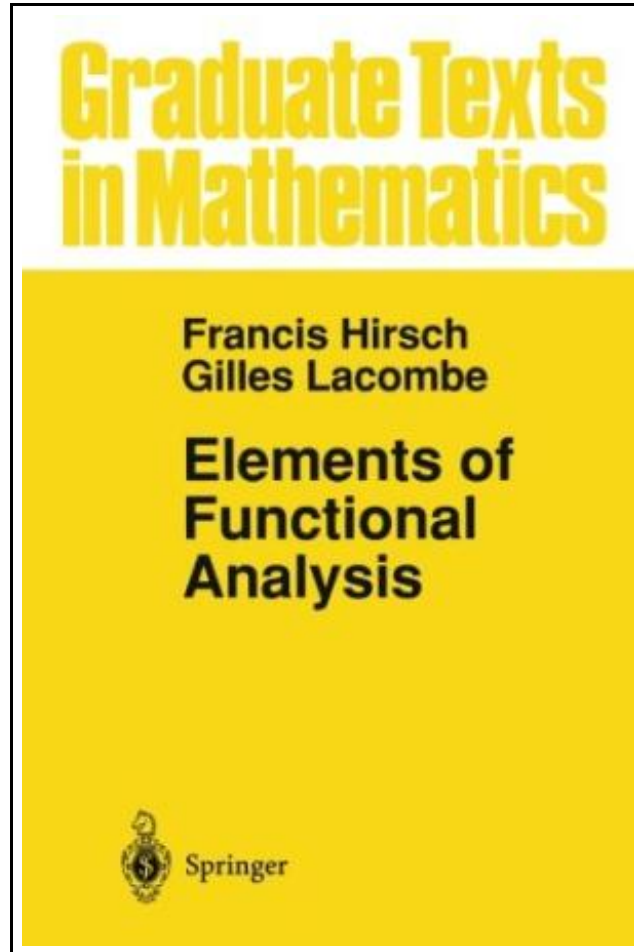
Francis Hirsch
Gilles Lacombe

Elements of Functional Analysis

Springer

Filesize: 7.76 MB

Reviews

This book is definitely worth purchasing. Indeed, it is actually perform, continue to an interesting and amazing literature. You may like how the blogger compose this publication.
(Gust Mayert V)

ELEMENTS OF FUNCTIONAL ANALYSIS

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book presents the fundamental function spaces and their duals, explores operator theory and finally develops the theory of distributions up to significant applications such as Sobolev spaces and Dirichlet problems. Includes an assortment of well formulated exercises, with answers and hints collected at the end of the book. | Prologue: Sequences.- 1 Countability.- 2 Separability.- 3 The Diagonal Procedure.- 4 Bounded Sequences of Continuous Linear Maps.- I Function Spaces and Their Duals.- 1 The Space of Continuous Functions on a Compact Set.- 1 Generalities.- 2 The Stone-Weierstrass Theorems.- 3 Ascoli's Theorem.- 2 Locally Compact Spaces and Radon Measures.- 1 Locally Compact Spaces.- 2 Daniell's Theorem.- 3 Positive Radon Measures.- 3A Positive Radon Measures on $${\mathbb}^{}$$ and the Stieltjes Integral.- 3B Surface Measure on Spheres in $${\mathbb}^{}$$.- 4 Real and Complex Radon Measures.- 3 Hilbert Spaces.- 1 Definitions, Elementary Properties, Examples.- 2 The Projection Theorem.- 3 The Riesz Representation Theorem.- 3A Continuous Linear Operators on a Hilbert Space.- 3B Weak Convergence in a Hilbert Space.- 4 Hilbert Bases.- 4 LpSpaces.- 1 Definitions and General Properties.- 2 Duality.- 3 Convolution.- II Operators.- 5 Spectra.- 1 Operators on Banach Spaces.- 2 Operators in Hilbert Spaces.- 2A Spectral Properties of Hermitian Operators.- 2B Operational Calculus on Hermitian Operators.- 6 Compact Operators.- 1 General Properties.- lA Spectral Properties of Compact Operators.- 2 Compact Selfadjoint Operators.- 2A Operational Calculus and the Fredholm Equation.- 2B Kernel Operators.- III Distributions.- 7 Definitions and Examples.- 1 Test Functions.- lA Notation.- 1B Convergence in Function Spaces.- 1C Smoothing.- 1D C?Partitions of Unity.- 2 Distributions.- 2A Definitions.- 2B First Examples.- 2C Restriction and Extension of a Distribution to an Open Set.- 2D Convergence of Sequences of Distributions.- 2E Principal Values.- 2F Finite Parts.- 3 Complements.- 3A Distributions of Finite Order.- 3B The Support...

Other PDFs

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)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read Book »

Readers Clubhouse Set B Time to Open

Barron s Educational Series, United States, 2006. Paperback. Book Condition: New. 222 x 148 mm. Language: English . Brand New Book. This is volume nine, Reading Level 2, in a comprehensive program (Reading Levels 1...

Read Book »

Would It Kill You to Stop Doing That?

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years...

Read Book »

Violet Rose and the Surprise Party

Book Condition: New. Publisher/Verlag: Nosy Crow | With activities, 3D press-out models and over 175 stickers! Plus free games and printables online! | When busy rabbit, Violet Rose, discovers that her friend Lily has a...

Read Book »

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)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Read Book »