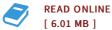


Elements of Functional Analysis

By Hirsch, Francis / Lacombe, Gilles

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.- 3 Alexator Measures on \$\${{\mathb}}^\$\$ and the Stieltjes Integral.- 3B Surface Measure on Spheres in \$\${{\mathb}}^\$\$.- 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.- ...



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