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Título: Unbounded Self-Adjoint Operators On Hilbert Space

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Sinopsis

ISBN: 9789400747524

Includes important topics which are not yet or not completely presented in a text book
Numerous well-choosen examples and exercises help the reader to learn dealing with unbounded operators

Treats unbounded self-adjoint operators with the emphasis on applications in mathematical physics

The book is a graduate text on unbounded self-adjoint operators on Hilbert space and their spectral theory with the emphasis on applications in mathematical physics (especially, Schrödinger operators) and analysis (Dirichlet and Neumann Laplacians, Sturm-Liouville operators, Hamburger moment problem) . Among others, a number of advanced special topics are treated on a text book level accompanied by numerous illustrating examples and exercises.

The main themes of the book are the following:

- Spectral integrals and spectral decompositions of self-adjoint and normal operators
- Perturbations of self-adjointness and of spectra of self-adjoint operators
- Forms and operators
- Self-adjoint extension theory :boundary triplets, Krein-Birman-Vishik theory of positive self-adjoint extension

Content Level » Graduate

Keywords » Banach space - Hamburger moment problem - Hilbert space - Perturbation of self-adjointness - Schrödinger operators - Self-adjoint extension theory - Self-adjoint operators - Spectral theory - Sturm-Liouville operators

Related subjects » Analysis - Theoretical, Mathematical & Computational Physics