



Spectral Properties of Schroedinger Operators and Scattering Theory

By Shmuel Agmon

Birkhauser Verlag AG. Paperback. Book Condition: new. BRAND NEW, Spectral Properties of Schroedinger Operators and Scattering Theory, Shmuel Agmon, These are the written notes of Fermi's Lectures supported by the Accademia Nazionale dei Lincei and given at the Scuola Normale Superiore of Pisa during March-April 1973. We propose to discuss here certain spectral properties of Schrodinger operators $H = -D + V(x)$ (D the Laplacian and V a potential) which have application to scattering theory. We consider an operator H with potential V of class SR. We show that the positive point spectrum of H is a discrete set in \mathbb{R}^+ . Eigenfunctions which correspond to positive eigenvalues are shown to decay rapidly. This property is shown to hold also for generalized eigenfunctions. We then establish the limiting absorbing principle, which is a basic tool in our study.



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