

Mathematical Methods Of Quantum Mechanics

Guido Fano

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Abstract. This book provides a self-contained introduction to mathematical methods in quantum mechanics (spectral theory) with applications to Schrodinger operators. The first part covers mathematical foundations of quantum mechanics from self-adjointness, the spectral theorem, quantum dynamics (including Stone's and the RAGE theorem) to perturbation theory for self-adjoint operators. The second part starts with a detailed study of the free Schrodinger operator