



# **The Quantum Mechanics of Many-Body Systems: Second Edition (Dover Books on Physics)**

*D.J. Thouless*

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A unified account of the field rather than a description of parallel methods, the text's main thematic approaches include the self-consistent field and its generalizations, perturbation theory and the use of Feynman diagrams, and the use of Green functions to describe excitations of a many-body system. The primary emphasis is on the theories of atomic nuclei, the electron gas, superconductivity, and liquid helium three. A familiarity with the principles of nonrelativistic quantum mechanics and statistical mechanics is assumed, but a detailed knowledge of nuclear and solid state physics is unnecessary.

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