



The Many-Body Problem in Quantum Mechanics

By N. H. March

Dover Publications. Paperback. Book Condition: New. Paperback. 480 pages. Dimensions: 8.4in. x 5.4in. x 0.9in. Written for students in search of a single-volume account of both the methods used in dealing with the many-body problem and the physics that result, this book is not an advanced treatment, but nevertheless assumes a good basic understanding of elementary quantum mechanics. Beginning with single-body approximations, the authors go on to devote full chapters to atoms and molecules, second quantization, many-body perturbation theory, Fermi fluids, nuclear matter, superconductivity, many-boson systems, grand partition functions, and Green functions. Each chapter contains an introduction and a selection of well-chosen problems, while a series of helpful appendixes deals with such topics as the second quantized form of one-particle operators, Wicks theorem, the loop theorem, ring diagrams, the time-dependent Hartree-Fock theory of electron gas, and other matters. A carefully selected list of references rounds out this comprehensive text on an important area of theoretical physics. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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