The Nuclear Many-Body Problem (Theoretical and Mathematical Physics)

By Peter Ring, Peter Schuck

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This long-standing introductory text thoroughly describes nuclear many-body theory, with an emphasis on methodology and the technical aspects of the theories that have been used to describe the nucleus. Now available in a more affordable softcover edition, the original contents of **The Nuclear Many-Body Problem** presented here is intended for students with basic knowledge of quantum mechanics and some understanding of nuclear phenomena.

From the reviews:
"Its scope and complexity are suitable for easy reading by beginning students of nuclear theory. With a crisp and concise style, the authors quickly develop the shell-model approach to the nuclear many-body problem and subsequently devote more than a third of the text to Hartree-Fock and related models…"
Physics Today

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- Rank: #8801808 in Books
- Published on: 2004-03-25
- Original language: English
- Number of items: 1
- Dimensions: .0" h x .0" w x .0" l, .0 pounds
- Binding: Hardcover
- 716 pages

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Editorial Review

Review

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"The monography by Peter Ring and Peter Schuck covers the techniques used to solve the nuclear many-body problem … . is recognized as a reference by the nuclear physics community. Theoretical developments are explained pedagogically, with a constant rigour, are well documented and are illustrated with suitably chosen examples. The book contains a lot of references … . It is served by a concise style. By its scope and rigour, it has no real rival and will expectedly remain a familiar introductory text in nuclear structure theory for many years." (Joseph Cugnon, Physicalia, Vol. 57 (3), 2005)

"In many ways, the 1950s through to the 1970s may be seen as a golden period for the development of nuclear physics, both experimental and theoretical. … The book contains an excellent description of many basic theoretical methods, which continue to be relevant today, it is still of value to specialist students of nuclear theory." (J. P. Elliott, Contemporary Physics, Vol. 46 (6), 2005)

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