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The present volume does not pretend to cover all aspects of theoretical nuclear physics. Its coverage is restricted to phenomena involving energies below about 50 Mev, a region sometimes called classical nuclear physics. Topics include studies of the nucleus, nuclear forces, nuclear spectroscopy and two-, three- and four-body problems, as well as explorations of nuclear reactions, beta-decay, and nuclear shell structure. The authors have designed the book for the experimental physicist working in nuclear physics or graduate students who have had at least a one-term course in quantum mechanics and who know the essential concepts and problems of nuclear physics.

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Bibliography

- Sales Rank: #877514 in Books
- Brand: Brand: Dover Publications
- Published on: 2010-10-18
- Released on: 2010-09-20
- Original language: English
- Number of items: 1
- Dimensions: 8.44" h x 1.64" w x 5.40" l, 2.01 pounds
- Binding: Paperback
- 896 pages



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