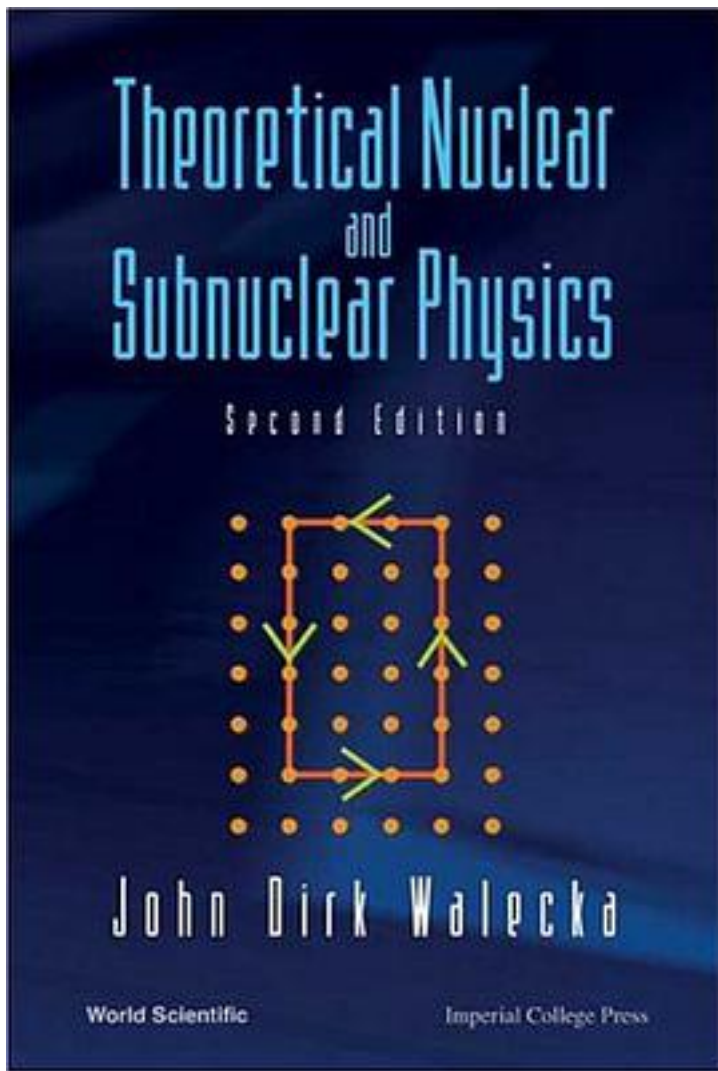


Theoretical Nuclear and Subnuclear Physics



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This book is a revised and updated version of the most comprehensive text on nuclear physics, first published in 1995. It maintains the original goal of providing a clear, logical, in-depth, and unifying treatment of modern nuclear theory, ranging from the nonrelativistic many-body problem to the standard model of the strong, electromagnetic, and weak interactions. In addition, new chapters on the theoretical and experimental advances made in nuclear physics in the past decade have been incorporated. Four key topics are emphasized: basic nuclear structure, the relativistic nuclear many-body problem, strong-coupling QCD, and electroweak interactions with nuclei. New chapters have been added on the many-particle shell model, effective field theory, density functional theory, heavy-ion reactions and quark-gluon plasma, and neutrinos. This book is designed to provide graduate students with a basic understanding of modern nuclear and hadronic physics needed to explore the frontiers of the field. Researchers will benefit from the updates on developments and the bibliography.

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