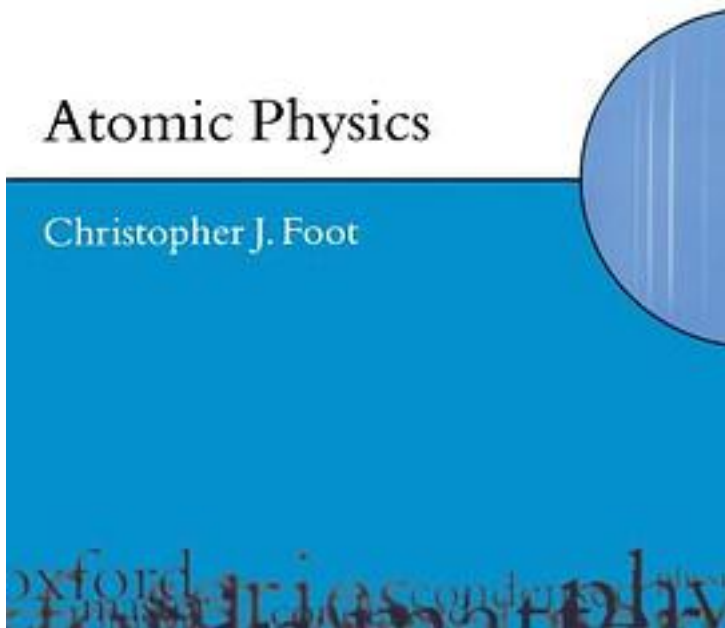


Atomic Physics

OXFORD MASTER SERIES IN ATOMIC, OPTICAL
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出版者:

出版时间:2008-12

装帧:

isbn:9780199532421

This book provides a bridge between the basic principles of physics learned as an undergraduate and the skills and knowledge required for advanced study and research in the exciting field of atomic physics. The text is organized in a unique and versatile

format --- as a collection of problems, hints, detailed solutions, and in-depth tutorials. This enables the reader to open the book at any page and get a solid introduction to subjects on the cutting edge of atomic physics, such as frequency comb metrology, tests of fundamental symmetries with atoms, atomic magnetometers, atom trapping and cooling, and Bose-Einstein condensates. The text also includes problems and tutorials on important basics that every practicing atomic physicist should know, but approached from the perspective of experimentalists: formal calculations are avoided where possible in favor of 'back-of-the-envelope' estimates, symmetry arguments, and physical analogies. The 2nd edition contains over 10 new problems, and includes important updates, revisions, and corrections of several problems of the 1st edition.

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