



# Atomic Physics (Oxford Master Series in Atomic, Optical and Laser Physics)

By Christopher J. Foot

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This text will thoroughly update the existing literature on atomic physics. Intended to accompany an advanced undergraduate course in atomic physics, the book will lead the students up to the latest advances and the applications to Bose-Einstein Condensation of atoms, matter-wave interferometry and quantum computing with trapped ions. The elementary atomic physics covered in the early chapters should be accessible to undergraduates when they are first introduced to the subject. To complement the usual quantum mechanical treatment of atomic structure the book strongly emphasizes the experimental basis of the subject, especially in the later chapters. It includes ample tutorial material (examples, illustrations, chapter summaries, graded problem sets).

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#### Review

"An altogether useful, enjoyable book that can be used a resource, course text, and introduction to modern atomic research topics."--*CHOICE*

"Foot presents a textbook for an undergraduate course in atomic physics for students who understand quantum mechanics at the level of an introductory university course, including the Schrödinger equation in three dimensions and perturbation theory. After describing the basic principles of atomic structures and reviewing the classical ideas, he discusses laser spectroscopy, laser cooling, the Bose-Einstein condensation of dilute atomic vapors, matter-wave interferometry, and ion trapping."--*SciTech Book News*

#### About the Author

C.J. Foot was a Junior Research Fellow of Jesus College in Oxford 1984-86, as well as being awarded the Lindemann Trust Fellowship at Stanford University 1984-85 and the Royal Society University Research Fellowship 1986-1991. In 1991, he became a university lecturer and was awarded the title of Professor of physics in 2002. He won the National Physical Laboratory Metrology Award in 1990.

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