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 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.

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 Having begun his physics career with a first-class honours degree and doctorate from the University of Oxford, Professor Christopher Foot spent several years working at Stanford University, supported in part by a Lindemann Trust Fellowship. He returned to the Oxford Physics Department and started research on laser cooling and trapping of atoms. Since 1991 he has been a tutorial fellow at St. Peter ' s College, Oxford.

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 CHRISTOPHER JARGODZKI, Ph.D., is Professor of Physics at Central Missouri State University. He is also founder and director of Center for Cooperative Phenomena. He was born and raised in Poland, and received his Ph.D. in quantum field theory from the University of California at Irvine.

This book describes atomic physics and the latest advances in this field at a level suitable for fourth year undergraduates. The numerous examples of the modern applications of atomic physics include Bose-Einstein condensation of atoms, matter-wave interferometry and quantum computing with trapped ions.

This book is primarily intended to accompany an advanced undergraduate course in atomic physics. However, the elementary atomic physics covered in the early chapters should be accessible to undergraduates when they are first introduced to the subject. The book describes some of the latest advances and the applications to Bose-Einstein condensation of atoms, matter-wave interferometry and quantum computing with trapped ions. 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.

This modern text on atomic physics is suitable for students at advanced undergraduate level. It covers both the fundamentals of the subject, as well as cutting-edge developments of the past decade, and contains plenty of tutorial material, including examples, illustrations, summaries and graded problem sets.

Written as a collection of problems, hints and solutions, this book should provide help in learning about both fundamental and applied aspects of this vast field of knowledge, where rapid and exciting developments are taking place.

This book illustrates the frontiers of precise measurements in Atomic Physics. It is written in an introductory style, which makes it useful for advanced undergraduate and graduate students as well as for more experienced researchers who want to remain up-to-date with the most recent advances. The book focuses on experimental investigations, illustrating both milestone experiments and key experimental techniques, and discussing the results and perspectives of current research activities. Emphasis is put on the investigations of precision physics: from the determination of fundamental constants of Nature to tests of General Relativity and Quantum Electrodynamics, from the realization of ultra-stable atomic clocks to the precise simulation of condensed matter theories with ultracold gases.

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Written primarily for advanced undergraduate and masters level students in physics, this text includes a broad range of topics in applied quantum optics such as laser cooling, Bose-Einstein condensation and quantum information processing.

The rapid development of quantum technologies has driven a revolution in related research areas such as quantum computation and communication, and quantum materials. The first prototypes of functional quantum devices are beginning to appear, frequently created using ensembles of atoms, which allow the observation of sensitive, quantum effects, and have important applications in quantum simulation and matter wave interferometry. This modern text offers a self-contained introduction to the fundamentals of quantum atom optics and atomic many-body matter wave systems. Assuming a familiarity with undergraduate quantum mechanics, this book will be accessible for graduate students and early career researchers moving into this important new field. A detailed description of the underlying theory of quantum atom optics is given, before development of the key, quantum, technological applications, such as atom interferometry, quantum simulation, quantum metrology, and quantum computing.