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Atomic Physics

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Precision Inertial Measurements with Cold Atom (...) - R. Geiger - Workshop 1 - CEB T2 2018 ~~Do Space and Time Really Exist? | Full Debate~~

~~Huw Price, Julian Barbour, Michela Massimi~~ ~~8.1 - Atomic Physics~~ Prof Kip Thorne: "My Life In Science" (2016) Atomic Physics - L 2 |

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(PDF) Atomic Physics - Christopher Foot | Tejas Deshmukh ...

Christopher J. Foot This book has two types of material; both well done. The first could have been written decades ago, and is the "traditional" atomic physics. Where you start with the hydrogen atom, and investigate its spectroscopy with the Schrodinger equation.

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"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.

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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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Atomic Physics, Paperback by Foot, C. J., ISBN 0198506961, ISBN-13 9780198506966, Brand New, Free shipping in the US Foot (physics, U. of Oxford) 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.

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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,

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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.

This book describes how the arrangement and movement of atoms in a solid are related to the forces between atoms, and how they affect the behaviour and properties of materials. The book is intended for final year undergraduate students and graduate students in physics and materials science.

Intended for advanced undergraduates and beginning graduates with some basic knowledge of optics and quantum mechanics, this text begins with a review of the relevant results of quantum mechanics, before turning to the electromagnetic interactions involved in slowing and trapping atoms and ions, in both magnetic and optical traps. The concluding chapters discuss a broad range of applications, from atomic clocks and studies of collision processes, to diffraction and interference of atomic beams at optical lattices and Bose-Einstein condensation.

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.

Quantum information is an area of science, which brings together physics, information theory, computer science & mathematics. This book, which is based on two successful lecture courses, is intended to introduce readers to the ideas behind new developments including quantum cryptography, teleportation & quantum computing.

Advances in nanotechnology have allowed physicists and engineers to miniaturize electronic structures to the limit where finite-size related phenomena start to impact their properties. This book discusses such phenomena and models made for their description. The book starts from the semiclassical description of nonequilibrium effects, details the scattering theory used for quantum transport calculations, and explains the main interference effects. It also describes how to treat fluctuations and correlations, how interactions affect transport through small islands, and how superconductivity modifies these effects. The last two chapters describe new emerging fields related with graphene and nanoelectromechanics. The focus of the book is on the phenomena rather than formalism, but the book still explains in detail the main

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models constructed for these phenomena. It also introduces a number of electronic devices, including the single-electron transistor, the superconducting tunnel junction refrigerator, and the superconducting quantum bit.

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