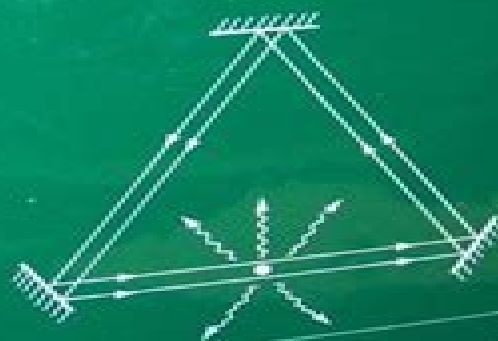


ATOM-PHOTON INTERACTIONS

Basic Processes
and Applications



Claude Cohen-Tannoudji
Jacques Dupont-Roc
Gilbert Grynberg

Atom Photon Interactions Basic Processes And Applications

Benjamin Bederson, Herbert Walther



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Atom-Photon Interactions Claude Cohen-Tannoudji, Jacques Dupont-Roc, Gilbert Grynberg, 2024-11-12 Atom Photon Interactions Basic Processes and Applications allows the reader to master various aspects of the physics of the interaction between light and matter It is devoted to the study of the interactions between photons and atoms in atomic and molecular physics quantum optics and laser physics The elementary processes in which photons are emitted absorbed scattered or exchanged between atoms are treated in detail and described using diagrammatic representation The book presents different theoretical approaches including Perturbative methods The resolvent method Use of the master equation The Langevin equation The optical Bloch equations The dressed atom approach Each method is presented in a self contained manner so that it may be studied independently Many applications of these approaches to simple and important physical phenomena are given to illustrate the potential and limitations of each method

Atoms in Electromagnetic Fields Claude Cohen-Tannoudji, 1994 This book presents a collection of papers written during the last 33 years by Claude Cohen Tannoudji and his collaborators on various physical effects which can be observed on atoms interacting with electromagnetic fields It consists of a personal selection of review papers lectures given at schools as well as original experimental and theoretical papers Emphasis is put on physical mechanisms and on general approaches such as the dressed atom approach having a wide range of applications Various topics are discussed such as light shifts level crossing resonances multiphoton processes resonance fluorescence in intense laser fields photon correlations quantum jumps radiative corrections laser cooling and trapping This volume includes short introductions by the author Each paper presented in the volume is preceded by a short commentary giving its motivations explaining how it fits with the general evolution of the research field and pointing out connections existing between works done at different periods

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Fundamental Physics – Heisenberg and Beyond Gerd W. Buschhorn, Julius Wess, 2012-12-06 Quantum mechanics formulated by Werner

Heisenberg in 1925 belongs among the greatest achievements of physics Fundamental Physics Heisenberg and Beyond combines personal tributes to Werner Heisenberg with assessments of his impact on current and future developments in physics The first part presents two essays commemorating Werner Heisenberg s 100th birthday and these are complemented by a short and nicely illustrated biographical note in the appendix In the second part incisive articles by ten world leading scientists explain important developments in fundamental physics to a broader community of interested scientists

Quantum Mechanics Jean-Louis Basdevant, Jean Dalibard, 2006-05-16 This course on quantum mechanics offers a fresh and modern approach to the field It is a textbook on the principles of the theory its mathematical framework and its first applications It consistently refers to modern and practical developments such as tunneling microscopy quantum information Bell inequalities quantum cryptography Bose Einstein condensation and quantum astrophysics The book contains 92 exercises with their solutions Supplementary material on extras springer com contains outstanding and easy access Java based simulations which illustratively help the user to better understand how the theory actually operates It also contains a variety of links where one can discover updated applications and further readings A complementary book The Quantum Mechanics Solver guides students to applying the theory developed here to research problems in atomic and molecular physics condensed matter and laser physics

Essays in Physics Geoffrey Brooker, 2021-07-16 Each of this book s 32 essays discusses a chosen topic at a level that is generally within that of a four year degree course in Physics The essays supplement indeed sometimes correct treatments usually given or supplies reasoning that tends to fall through the cracks The author uses his life long experience of tutorial teaching at Oxford to know what topics often need such discussion for clarification or for avoidance of common confusions The book contains accounts of even standard topics accounts that offer an unusual emphasis or a fresh insight or more than customary rigour or a cross link to apparently unrelated material The student and their teachers who really wants to understand physics will find this book indispensable Often the outcome of tutorial discussion has been an understanding that lies a little to the side of what is presented in standard texts Such understanding is presented here in the essays The topics covered are diverse and have something useful to say across most areas of a physics degree

Advances in Atomic, Molecular, and Optical Physics Benjamin Bederson, Herbert Walther, 2002-12-09 This series established in 1965 is concerned with recent developments in the general area of atomic molecular and optical physics The field is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics Articles are written by distinguished experts who are active in their research fields The articles contain both relevant review material and detailed descriptions of important recent developments

Annual Review Of Cold Atoms And Molecules - Volume 2 Kirk W Madison, Lincoln D Carr, Hui Zhai, Kai Bongs, Ana Maria Rey, 2014-04-01 The aim of this book is to present review articles describing the latest theoretical and experimental

developments in the field of cold atoms and molecules Our hope is that this series will promote research by both highlighting recent breakthroughs and by outlining some of the most promising research directions in the field *Advanced Topics in Theoretical Chemical Physics* J. Maruani,Roland Lefebvre,Erkki J. Brändas,2013-11-27 *Advanced Topics in Theoretical Chemical Physics* is a collection of 20 selected papers from the scientific presentations of the Fourth Congress of the International Society for Theoretical Chemical Physics ISTCP held at Marly le Roi France in July 2002 *Advanced Topics in Theoretical Chemical Physics* encompasses a broad spectrum in which scientists place special emphasis on theoretical methods in chemistry and physics The chapters in the book are divided into five sections I Advances Chemical Thermodynamics II Electronic Structure of Molecular Systems III Molecular Interaction and Dynamics IV Condensed Matter V Playing with Numbers This book is an invaluable resource for all academics and researchers interested in theoretical quantum or statistical chemical physics or physical chemistry It presents a selection of some of the most advanced methods results and insights in this exciting area [The Proceedings of 2023 International Conference on Wireless Power Transfer \(ICWPT2023\)](#) Chunwei Cai,Xiaohui Qu,Ruikun Mai,Pengcheng Zhang,Wenping Chai,Shuai Wu,2024-03-07 This book includes original peer reviewed research papers from the 2023 International Conference on Wireless Power Transfer ICWPT2023 held in Weihai China The topics covered include but are not limited to wireless power transfer technology and systems coupling mechanism and electromagnetic field of wireless power transfer systems latest developments in wireless power transfer system and wide applications The papers share the latest findings in the field of wireless power transfer making the book a valuable asset for researchers engineers university students etc

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