

# Quantum Optics of Confined Systems

Edited by

Martial Ducloy and Daniel Bloch

NATO ASI Series

# **Quantum Optics Of Confined Systems**

M. Ducloy, Daniel Bloch

#### **Quantum Optics Of Confined Systems:**

Quantum Optics of Confined Systems M. Ducloy, Daniel Bloch, 1996-03-31 In the last few years it was seen the emergence of various new quantum phenomena specifically related with electronic or optical confinement on a sub wavelength size Fast developments simultaneously occurred in the field of Atomic Physics notably through various regimes of Cavity Quantum Electrodynamics and in Solid State Physics with advances in Quantum Well technology and Nanooptoelectronics Simultaneously breakthroughs in Near Field Optics provided new tools which should be widely applicable to these domains However the key concepts used to describe these new and partly related effects are often very different and specific of the Community involved in a given development It has been the ambition of the Meeting held at Centre de Physique des Houches to give an opportunity to specialists of different Communities to deepen their understanding of advances more or less intimately related to their own field while presenting the basic concepts of these different fields through pedagogical Introductions The audience comprised advanced students postdocs and senior scientists with a balanced participation of Atomic Physicists and Solid State Physicists and had a truly international character The considerable efforts of the lecturers in order to present exciting new results in a language accessible to the whole audience were the essential ingredients to achieve successfully what was the main goal of this School Semiconductor Quantum Optics Mackillo Kira, Stephan W. Koch, 2011-11-17 The emerging field of semiconductor quantum optics combines semiconductor physics and quantum optics with the aim of developing quantum devices with unprecedented performance In this book researchers and graduate students alike will reach a new level of understanding to begin conducting state of the art investigations The book combines theoretical methods from quantum optics and solid state physics to give a consistent microscopic description of light matter and many body interaction effects in low dimensional semiconductor nanostructures It develops the systematic theory needed to treat semiconductor quantum optical effects such as strong light matter coupling light matter entanglement squeezing as well as quantum optical semiconductor spectroscopy Detailed derivations of key equations help readers learn the techniques and nearly 300 exercises help test their understanding of the materials covered The book is accompanied by a website hosted by the authors containing further discussions on topical issues latest trends and publications on the field The link can be found at www cambridge org 9780521875097 Microcavities and Photonic Bandgaps: Physics and Applications J.G. Rarity, Claude Weisbuch, 2012-12-06 The control of optical modes in microcavities or in photonic bandgap PBG materials is coming of age Although these ideas could have been developed some time ago it is only recently that they have emerged due to advances in both atomic physics and in fabrication techniques be it on the high quality dielectric mirrors required for high finesse Fabry Perot resonators or in semiconductor multilayer deposition methods Initially the principles of quantum electro dynamics QED were demonstrated in elegant atomic physics experiments Now solid state implementations are being investigated with several subtle differences from the atomic case such as those due to their continuum of electronic states or

the near Boson nature of their elementary excitations the exciton Research into quantum optics brings us ever newer concepts with potential to improve system performance such as photon squeezing quantum cryptography reversible taps photonic de Broglie waves and quantum computers The possibility of implementing these ideas with solid state systems gives us hope that some could indeed find their way to the market demonstrating the continuing importance of basic research for applications be it in a somewhat more focused way than in earlier times for funding Microoptics Stefan Sinzinger, Jürgen Jahns, 2006-03-06 Microoptics is an important enabling technology for many areas of application In this updated second edition of their modern text and reference book Stefan Sinzinger and I rgen Jahns expertly and comprehensively present the basics and applications in microoptics while incorporating the most important developments in recent years An absolute must for physicists and electrical engineers from advanced students right up to designers working in the field **Ouantum** Coherence in Solid State Systems Benoît Deveaud, Antonio Quattropani, Paolo Schwendimann, 2009 This volume gives an overview of the manifestations of quantum coherence in different solid state systems including semiconductor confined systems magnetic systems crystals and superconductors Besides being of paramount importance in fundamental physics the study of quantum coherence furnishes the starting point for important applications like quantum computing or secure data transmission The coherent effects discussed mainly involve elementary excitations in solids like polaritons excitons magnons macroscopic quantities like superconductor currents and electron spins Also several new aspects of the physics of quasi particles are understood and discussed in this context Due to the variety of systems in which quantum coherence may be observed solid state systems are the natural candidates for applications that rely on coherence for example quantum Confined Photon Systems Henri Benisty, Jean-Michel Gerard, Romuald Houdre, John computer Book Tacket Rarity, Claude Weisbuch, 1999-10-19 This set of lecture notes provides a detailed and up to date description of a field undergoing explosive growth that of confined photon systems in the shape of microcavities or photonic crystals Bringing together world leaders in the field it provides all the basic tools needed to master a subject which will have both major impact in fundamental studies and widescale applications Confined photon systems enable the study of low dimensional photonic systems modified light matter interaction e g between excitons and photons in all solid state semiconductor microcavities and of many phenomena of quantum optics including single photon generation squeezed light quantum state entanglement non local quantum measurements and potentially quantum computation. They are also on the verge of yielding new high performance optical devices for large scale industries such as telecommunications and display technology

Condensed Matter Physics Hari Prakash (of Physics Dept., Allahabad University.),1999 Contributed seminar papers Frontiers In Electronics: From Materials To Systems, 1999 Workshop On Frontiers In Electronics Serge Luryi, Yoon Soo Park, Michael S Shur, Jimmy Xu, Alexander Zaslavsky, 2000-08-07 The rapid pace of the electronic technology evolution compels a merger of technical areas such as low power digital electronics microwave power circuits

optoelectronics etc which collectively have become the foundation of today's electronic technology. The 1999 Workshop on Frontiers in Electronics gathered experts from academia industry and government agencies to review the recent exciting breakthroughs and their underlying physical mechanisms. The proceedings addresses controversial issues provocative views and visionary outlooks. Also included are discussions on the future trends the directions of electronics technology and the market pulls as well as the necessary policy and infrastructure changes. Optics of Nanomaterials Vladimir I.

Gavrilenko, 2016-10-14. While the chemistry physics and optical properties of simple atoms and molecules are quite well understood this book demonstrates that there is much to be learned about the optics of nanomaterials. Through comparative analysis of the size dependent optical response from nanomaterials it is shown that although strides have been made in computational chemistry and physics bridging length scales from nano to macro remains a major challenge Organic molecular polymer and biological systems are shown to be potentially useful models for assembly Our progress in understanding the optical properties of biological nanomaterials is important driving force for a variety of applications.

Professor Richard K Chang: A Lifelong Teacher And Friend Ali Serpenguzel, Sunny Sung-wen Chang, Grace Metcalfe, Nicole Py Chang, Hui Cao, Natasha Pm Chang, Kevin Ph Chang, Kok Khoo Phua, Kevin Chang, 2025-05-27 This book is a memorial for Professor Richard K Chang of Yale University with contributions from students colleagues friends and family The book covers the academic and personal interactions between a professor and his students and colleagues in addition to observations by friends and family

Unveiling the Magic of Words: A Report on "Quantum Optics Of Confined Systems"

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