



Quantum Optics of Confined Systems

Edited by

Martial Ducloy and Daniel Bloch

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Quantum Optics Of Confined Systems

Didier Musso



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 *Confined Photon Systems* Henri

Benisty, Jean-Michel Gerard, Romuald Houdre, John Rarity, Claude Weisbuch, 2014-03-12 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 **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 *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

Condensed Matter Physics Hari Prakash (of Physics Dept., Allahabad University.), 1999 Contributed seminar papers *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 Jürgen 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

Quantum 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 computer Book Jacket

War, Science and Terrorism Dr J Richardson, 2012-12-06 Describes the application of research to the evolution of weapons It shows how natural engineering information and environmental sciences are exploited how even social science is applied to recruitment battlefield and logistical management and careful preparation of terroristic acts

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

Advanced Materials for Integrated Optical Waveguides

Xingcun Colin Tong Ph.D,2013-10-17 This book provides a comprehensive introduction to integrated optical waveguides for information technology and data communications Integrated coverage ranges from advanced materials fabrication and characterization techniques to guidelines for design and simulation A concluding chapter offers perspectives on likely future trends and challenges The dramatic scaling down of feature sizes has driven exponential improvements in semiconductor productivity and performance in the past several decades However with the potential of gigascale integration size reduction is approaching a physical limitation due to the negative impact on resistance and inductance of metal interconnects with current copper trace based technology Integrated optics provides a potentially lower cost higher performance alternative to electronics in optical communication systems Optical interconnects in which light can be generated guided modulated amplified and detected can provide greater bandwidth lower power consumption decreased interconnect delays resistance to electromagnetic interference and reduced crosstalk when integrated into standard electronic circuits Integrated waveguide optics represents a truly multidisciplinary field of science and engineering with continued growth requiring new developments in modeling further advances in materials science and innovations in integration platforms In addition the processing and fabrication of these new devices must be optimized in conjunction with the development of accurate and precise characterization and testing methods Students and professionals in materials science and engineering will find **Advanced Materials for Integrated Optical Waveguides** to be an invaluable reference for meeting these research and development goals

Progress in Nano-Electro-Optics II Motoichi Ohtsu,2012-12-06 Novel Devices and Atom

Manipulation the second and concluding volume of Progress in Nano Electro Optics focuses on applications to novel devices and atom manipulation Each chapter is written by a leading scientists in the field Part II addresses the latest developments in nano optical techniques dealing with topics such as the reasons that the resolution of nano electro optical techniques extend beyond the diffraction limit applications of excitonic polaritons to opto electronic devices instrumentation of near field optical microscopy to study quantum confined systems and atom manipulation by optical near field techniques Together with volume I Basics and Theory of Near Field Optics these overviews are a valuable resource for engineers and scientists working in the field of nano electro optics

Nonclassical Light from Semiconductor Lasers and LEDs Jungsang Kim,Seema

Somani,Yoshihisa Yamamoto,2012-12-06 The quantum statistical properties of light generated in a semiconductor laser and a light emitting diode LED have been a eld of intense research for more than a decade This research monograph discusses recent research activities in nonclassical light generation based on semiconductor devices performed mostly at Stanford University When a semiconductor material is used as the active medium to generate photons as in semiconductor lasers and

LEDs the flow of carriers electrons and holes is converted into a flow of photons. Provided that the conversion is fast and efficient the statistical properties of the carriers pump noise can be transferred to the photons if pump noise can be suppressed to below the shot noise value the noise in the photon output can also be suppressed below the Poisson limit.

Since electrons and holes are fermions and have charges the statistical properties of these particles can be significantly different from those of photons if the structure of the light emitting device is properly designed to provide interaction between these particles. There has been a discrepancy between the theoretical understanding and experimental observation of noise in a macroscopic resistor until very recently. The dissipation that electrons experience in a resistor is expected to accompany the fluctuation due to partition noise leading to shot noise in the large dissipation limit as is the case with photons. Experimental observation shows that thermal noise expected only in a thermal equilibrium situation zero bias condition is the only source of noise featured by a resistor dependent of the current. **The Cumulative Book Index**, 1997 A world list of books in the English language.

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 electrodynamics 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. Information Technology, Systems Research, and Computational Physics Piotr Kulczycki, Janusz Kacprzyk, László T. Kóczy, Radko Mesiar, Rafal Wisniewski, 2019-04-17 This book highlights a broad range of modern information technology tools techniques investigations and open challenges mainly with applications in systems research and computational physics. Divided into three major sections it begins by presenting specialized calculation methods in the framework of data analysis and intelligent computing. In turn the second section focuses on application aspects mainly for systems research while the final section investigates how various tasks in the basic disciplines mathematics and physics can be tackled with the aid of contemporary IT methods. The book gathers selected presentations from the 3rd Conference on Information Technology Systems Research and Computational Physics ITSRC-P 18 which took place on 2-5 July 2018 in Krakow Poland. The intended readership includes interdisciplinary scientists and

practitioners pursuing research at the interfaces of information technology systems research and computational physics

Nanophotonics Hervé Rigneault, Jean-Michel Lourtioz, Claude Delalande, Ariel Levenson, 2010-01-05 Nanophotonics is a comprehensive introduction to the emerging area concerned with controlling and shaping optical fields at a subwavelength scale Photonic crystals and microcavities are extensively described including non linear optical effects Local probe techniques are presented and are used to characterize plasmonic devices The emerging fields of semiconductor nanocrystals and nanobiophotonics are also presented

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

Optical Properties of Solids Mark Fox, 2010-03-25 For final year undergraduates and graduate students in physics this book offers an up to date treatment of the optical properties of solid state materials

Principles of Nano-Optics Lukas Novotny, Bert Hecht, 2006-06-01 Nano optics is the study of optical phenomena and techniques on the nanometer scale that is near or beyond the diffraction limit of light It is an emerging field of study motivated by the rapid advance of nanoscience and nanotechnology which require adequate tools and strategies for fabrication manipulation and characterization at this scale In this 2006 text the authors provide a comprehensive overview of the theoretical and experimental concepts necessary to understand and work in nano optics With a very broad perspective they cover optical phenomena relevant to the nanoscale across diverse areas ranging from quantum optics to biophysics introducing and extensively describing all of the significant methods Written for graduate students who want to enter the field the text includes problem sets to reinforce and extend the discussion It is also a valuable reference for researchers and course teachers

Physics Of Semiconductors, The - Proceedings Of The 22nd International Conference (In 3 Volumes) David J Lockwood, 1995-01-20 These proceedings review the progress in most aspects of semiconductor physics including those related to materials processing and devices The conference continues the tradition of the ICPS series and these volumes include state of the art lectures The plenary and invited papers address areas of major interest These volumes will serve as excellent material for researchers in semiconductor physics and related fields

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