

Microcavities and Photonic Bandgaps: Physics and Applications

Edited by

John Rarity and Claude Weisbuch

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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 Photonic Crystal Fibres Anders Bjarkley, Jes Broeng, Araceli Sanchez Bjarkley, 2012-12-06 Photonic Crystal Fibres describes the fundamental properties of the optical waveguides known under the terms of photonic crystal fibres microstructured fibres or holey fibres. It outlines how the fibres are designed and fabricated and how they are treated from a theoretical and numerical point of view The book presents a detailed description of the different classes of photonic crystal and photonic bandgap fibres and it broadens out a spectrum of novel applications and new fibre types

Nanoscale Science and Technology N. García, M. Nieto-vesperinas, H. Rohrer, 2012-12-06 Nanoscale Science and Technology summarizes six years of active research sponsored by NATO with the participation of the leading experts The book provides an interdisciplinary view of several aspects of physics at the atomic scale It contains an overview of the latest findings on the transport of electrons in nanowires and nanoconstrictions the role of forces in probe microscopy the control of structures and properties in the nanometer range aspects of magnetization in nanometric structures and local probes for nondestructive measurement as provided by light and metal clusters near atomic scales Spectroscopy of Systems with Spatially Confined Structures Baldassare di Bartolo, 2012-12-06 Nanometer scale physics is progressing rapidly the top down approach of semiconductor technology will soon encounter the scale of the bottom up approaches of supramolecular chemistry and spatially localized excitations in ionic crystals Advances in this area have already led to applications in optoelectronics More may be expected This book deals with the role of structure confinement in the spectroscopic characteristics of physical systems It examines the fabrication measurement and understanding of the relevant structures It reports progress in the theory and in experimental techniques starting with the consideration of fundamental principles and leading to the frontiers of research The subjects dealt with include such spatially resolved structures as quantum wells

quantum wires quantum dots and luminescence in both theoretical and practical terms Electroluminescence II ,1999-10-29 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer series as it is widely known has succeeded in producing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Semiconductor **Optics** Claus F. Klingshirn, 2007-03-07 The updated and enlarged new edition of this book provides an introduction to and an overview of semiconductor optics from the IR through the visible to the UV It includes coverage of linear and nonlinear optical properties dynamics magneto and electrooptics high excitation effects some applications experimental techniques and group theory. The mathematics is kept as elementary as possible. The subjects covered extend from physics to materials science and optoelectronics New or updated chapters add coverage of current topics while the chapters on bulk materials have been revised and updated **Electronic Excitations in Organic Based Nanostructures**, 2003-11-13 The first book devoted to a systematic consideration of electronic excitations and electronic energy transfer in organic crystalline multilayers and organics based nanostructures quantum wells quantum wires quantum dots microcavities. The ingenious combination of organic with inorganic materials in one and the same hybrid structure is shown to give qualitatively new opto electronic phenomena potentially important for applications in nonlinear optics light emitting devices photovoltaic cells lasers and so on The book will be useful not only for physicists but also for chemists and biologists To help the nonspecialist reader three Chapters which contain a tutorial and updated introduction to the physics of electronic excitations in organic and inorganic solids have been included hybrid Frenkel Wannier Mott excitons microcavities with crystalline and disordered organics electronic excitation at donor acceptor interfaces cold photoconductivity at donor acceptor interface cumulative photovoltage Feorster transfer energy in microcavity New concepts for LEDs Directions in Quantum Optics H.J. Carmichael, R.J. Glauber, M.O. Scully, 2001-01-18 This collection of papers written by leading researchers reflects the forefront of research in the dynamic field of quantum optics Topics covered include BEC atomic optics quantum information cavity QED and quantum noise processes This volume forms an indispensable reference source for all those who want to

keep up with the latest developments in this area Nanophotonics Hervé Rigneault, Jean-Michel Lourtioz, Claude Delalande, Ariel Levenson, 2010-01-05 Nanophotonicsis 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 Kokuritsu Kokkai Toshokan shozō kagaku gijutsu kankei Ōbun kaigiroku mokuroku Kokuritsu Kokkai Toshokan (Japan),1997 Interference Coatings Norbert Kaiser, Hans K. Pulker, 2013-06-29 Interference coatings are an essential part of modern optics This book is designed to give a concise but complete overview of the field with contributions written by leading experts in the various areas Topics include design materials film growth deposition including large area characterization and monitoring and mechanical stress The authors also describe applications in astronomy microcomponents DUV VUV EUV X ultrafast optics displays and ultrasensitive fluorescence Furthermore laser resistant coatings and coatings for free electron lasers and plastic optics are covered The book concludes with chapters on photonic structures as interference devices and on the brilliant world of natural coatings 2000, **IIAP** <u>Japanese Journal of Applied Physics</u>, 2000 Iournal of the Optical Society of America ,1998 Proceedings of the ... International Symposium on Micromechatronics and Human Science, 2000 Single Quantum Dots Peter Michler, 2003-12-09 Special focus is given to the optical and electronic properties of single quantum dots due to their potential applications in devices operating with single electrons and or single photons This includes quantum dots in electric and magnetic fields cavity quantum electrodynamics nonclassical light generation and coherent optical control of excitons Mathematical Modeling in Optical Science Gang Bao, Lawrence Cowsar, Wen Masters, 2001-01-01 This volume addresses recent developments in mathematical modeling in three areas of optical science diffractive optics photonic band gap structures and waveguides Particular emphasis is on the formulation of mathematical models and the design and analysis of new computational approaches The book contains cutting edge discourses on emerging technology in optics that provides significant challenges and opportunities for applied mathematicians researchers and engineers Nonlinear Optics of Random Media Vladimir M. Shalaev, 2007-09-28 Nonlinear Optics of Random Media reviews recent advances in in one of the most prominent fields of physics It provides an outline of the basic models of irregular structures of random inhomogeneous media and the approaches used to describe their linear electromagnetic properties Nonlinearities in random media are also discussed The chapters can be read independently so scientists and students interested in a specific problem can go directly to the relevant Semiconductors, 2003-07 English translation of Fizika i tekhnika poluprovodnikov covers semiconductor research text in countries of the Former Soviet Union Topics include semiconductor theory transport phenomena in semiconductors optics magneto optics and electro optics of semiconductors semiconductor lasers and semiconductor surface physics Includes book

reviews

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