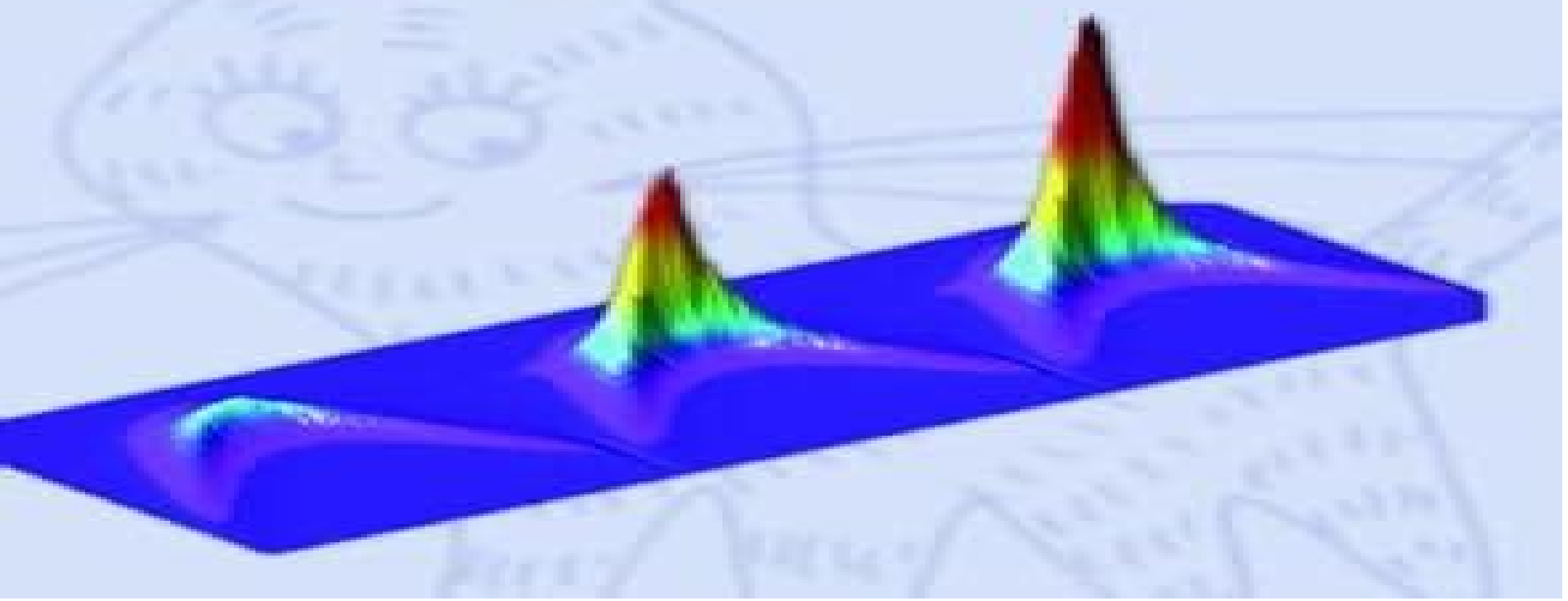


# Microcavities

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Alexey V. Kavokin  
Jeremy J. Baumberg  
Guillaume Malpuech  
Fabrice P. Laussy

*Revised Edition*



# Microcavities Series On Semiconductor Science And Technology

**Xiaolong Qi**



## **Microcavities Series On Semiconductor Science And Technology:**

Semiconductor Science and Technology, Vol.1 V. Stefan,Nikolaï Gennadievich Basov,2002      **Bulletin of the STEFAN UNIVERSITY: Semiconductor Science and Technology—1998; ISSN: 1098-1632.:** Editors of the Stefan University Press,1998-09-07 Bulletin of the STEFAN UNIVERSITY Semiconductor Science and Technology 1998 ISSN 1098 1632 Stefan Frontier Conferences Frontier Science Research Conferences FSRC La Jolla California September 7 11 1998 1998 The Stefan University Press      Semiconductor Quantum Light Sources Peter Michler,Simone Luca Portalupi,2024-01-29 The work provides fundamental expertise of quantum optics and photonic quantum technology with particular attention to the generation of non classical light with semiconductor nanostructures The book is written by experimentalists for experimentalists at various career stages physics and engineering students researchers in quantum optics industry experts in quantum technology A didactical structure is followed having in each chapter overview and summary of the discussed topics allowing for a quick consultation The book covers Basics of quantum optics Spectroscopy time resolved measurements quantum optics techniques Principles of non classical light emission Excitation of semiconductor nanostructures and their manipulation Growth and nanofabrication of devices Targeting physics and quantum engineering students as well as research scientists and engineers in academia and industry it provides the practical base for understanding quantum light sources and for evaluating their performances Thus it enables readers to gain the necessary knowledge to understand design and test novel quantum light sources for various implementations as quantum key distribution quantum repeaters quantum sensors and photonic quantum information processing      **Microcavities** Alexey Kavokin,Jeremy J. Baumberg,Guillaume Malpuech,Fabrice P. Laussy,2011-04-27 Rapid development of microfabrication and assembly of nanostructures has opened up many opportunities to miniaturize structures that confine light producing unusual and extremely interesting optical properties This book addresses the large variety of optical phenomena taking place in confined solid state structures microcavities Realisations include planar and pillar microcavities whispering gallery modes and photonic crystals The microcavities represent a unique laboratory for quantum optics and photonics They exhibit a number of beautiful effects including lasing superfluidity superradiance entanglement etc Written by four practitioners strongly involved in experiments and theories of microcavities it is addressed to any interested reader having a general physical background but in particular to undergraduate and graduate students at physics faculties      Semiconductor Nanophotonics Michael Kneissl,Andreas Knorr,Stephan Reitzenstein,Axel Hoffmann,2020-03-10 This book provides a comprehensive overview of the state of the art in the development of semiconductor nanostructures and nanophotonic devices It covers epitaxial growth processes for GaAs and GaN based quantum dots and quantum wells describes the fundamental optical electronic and vibronic properties of nanomaterials and addresses the design and realization of various nanophotonic devices These include energy efficient and high speed vertical cavity surface emitting lasers VCSELs and ultra small metal cavity nano lasers for applications in multi

terabus systems silicon photonic I/O engines based on the hybrid integration of VCSELs for highly efficient chip to chip communication electrically driven quantum key systems based on q bit and entangled photon emitters and their implementation in real information networks and AlGaIn based deep UV laser diodes for applications in medical diagnostics gas sensing spectroscopy and 3D printing The experimental results are accompanied by reviews of theoretical models that describe nanophotonic devices and their base materials The book details how optical transitions in the active materials such as semiconductor quantum dots and quantum wells can be described using a quantum approach to the dynamics of solid state electrons under quantum confinement and their interaction with phonons as well as their external pumping by electrical currents With its broad and detailed scope this book is indeed a cutting edge resource for researchers engineers and graduate level students in the area of semiconductor materials optoelectronic devices and photonic systems Optical Microcavities Kerry Vahala, 2004-12-10 Optical microcavities are structures that enable confinement of light to microscale volumes The universal importance of these structures has made them indispensable to a wide range of fields This important book describes the many applications and the related physics providing both a review and a tutorial of key subjects by leading researchers from each field The topics include cavity QED and quantum information nanophotonics and nanostructure interactions wavelength switching and modulation in optical communications optical chaos and biosensors

Comprehensive Semiconductor Science and Technology, 2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from

fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field

**Quantum Plasmonics** Sergey I. Bozhevolnyi, Luis Martin-Moreno, Francisco Garcia-Vidal, 2016-11-26 This book presents the latest results of quantum properties of light in the nanostructured environment supporting surface plasmons including waveguide quantum electrodynamics quantum emitters strong coupling phenomena and lasing in plasmonic structures Different approaches are described for controlling the emission and propagation of light with extreme light confinement and field enhancement provided by surface plasmons Recent progress is reviewed in both experimental and theoretical investigations within quantum plasmonics elucidating the fundamental physical phenomena involved and discussing the realization of quantum controlled devices including single photon sources transistors and ultra compact circuitry at the nanoscale

**Physics of Semiconductors in High Magnetic Fields** Noboru Miura, 2008 This book summarizes most of the fundamental physical phenomena which semiconductors and their modulated structures exhibit in high magnetic fields Readers can learn not only the basic theoretical background but also the present state of the art from the most advanced data in this rapidly growing research area

**Spin Current** Sadamichi Maekawa, Sergio O. Valenzuela, Eiji Saitoh, Takashi Kimura, 2017 In a new branch of physics and technology called spin electronics or spintronics the flow of electrical charge usual current as well as the flow of electron spin the so called spin current are manipulated and controlled together This book is intended to provide an introduction and guide to the new physics and applications of spin current

**Electron and Nuclear Spin Dynamics in Semiconductor Nanostructures** M. M. Glazov, 2018 This book focuses on the main aspects of electron and nuclear spin dynamics in semiconductor nanostructures It summarizes main results of theoretical and experimental studies of interactions in spin systems effects of ultrafast spin manipulation by light phenomena of spin losses and the physics of the omnipresent spin noise

**Semiconductor Nanophotonics** Prasanta Kumar Basu, Bratati Mukhopadhyay, Rikmantra Basu, 2022 One of the first comprehensive textbooks dealing with the modern field of Nanophotonics Though emphasis is given on semiconductors optical processes in metals and insulators are discussed as well Provides basic theoretical models in simple terms and discusses the application areas

**Strong Light-matter Coupling: From Atoms To Solid-state Systems** Leong-chuan Kwek, Alexia Auffeves, Dario Gerace, Maxime Richard, Stefano Portolan, Marcelo Franca Santos, Christian Miniature, 2013-12-23 The physics of strong light matter coupling has been addressed in different scientific communities over the last three decades Since the early eighties atoms coupled to optical and microwave cavities have led to pioneering demonstrations of cavity quantum electrodynamics Gedanken experiments and building blocks for quantum information processing for which the Nobel Prize in Physics was awarded in 2012 In the framework of semiconducting devices strong coupling has allowed investigations into the physics of Bose gases in solid state environments and the latter holds promise for exploiting light matter interaction at the single photon level in scalable architectures More recently impressive developments in the so called superconducting circuit QED have opened another

fundamental playground to revisit cavity quantum electrodynamics for practical and fundamental purposes This book aims at developing the necessary interface between these communities by providing future researchers with a robust conceptual theoretical and experimental basis on strong light matter coupling both in the classical and in the quantum regimes In addition the emphasis is on new forefront research topics currently developed around the physics of strong light matter interaction in the atomic and solid state scenarios

*Silicon Nanomaterials Sourcebook* Klaus D. Sattler, 2017-07-28 This comprehensive tutorial guide to silicon nanomaterials spans from fundamental properties growth mechanisms and processing of nanosilicon to electronic device energy conversion and storage biomedical and environmental applications It also presents core knowledge with basic mathematical equations tables and graphs in order to provide the reader with the tools necessary to understand the latest technology developments From low dimensional structures quantum dots and nanowires to hybrid materials arrays networks and biomedical applications this Sourcebook is a complete resource for anyone working with this materials Covers fundamental concepts properties methods and practical applications Focuses on one important type of silicon nanomaterial in every chapter Discusses formation properties and applications for each material Written in a tutorial style with basic equations and fundamentals included in an extended introduction Highlights materials that show exceptional properties as well as strong prospects for future applications Klaus D Sattler is professor physics at the University of Hawaii Honolulu having earned his PhD at the Swiss Federal Institute of Technology ETH in Zurich He was honored with the Walter Schottky Prize from the German Physical Society and is the editor of the sister work also published by Taylor Francis Carbon Nanomaterials Sourcebook as well as the acclaimed multi volume Handbook of Nanophysics

**Nanoscale Science and Technology** Nicolás García, M. Nieto-Vesperinas, Hermann Rohrer, 1998 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

**Issues in Electronic Circuits, Devices, and Materials: 2011 Edition**, 2012-01-09 Issues in Electronic Circuits Devices and Materials 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Electronic Circuits Devices and Materials The editors have built Issues in Electronic Circuits Devices and Materials 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Electronic Circuits Devices and Materials in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Electronic Circuits Devices and Materials 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it

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**Microcavities** Alexey V. Kavokin,Jeremy J. Baumberg,Guillaume Malpuech,Fabrice P. Laussy,2017-04-28 Microcavities are semiconductor metal or dielectric structures providing optical confinement in one two or three dimensions At the end of the 20th century microcavities have attracted attention due to the discovery of a strong exciton light coupling regime allowing for the formation of superposition light matter quasiparticles exciton polaritons In the following century several remarkable effects have been discovered in microcavities including the Bose Einstein condensation of exciton polaritons polariton lasing superfluidity optical spin Hall and spin Meissner effects amongst other discoveries Currently polariton devices exploiting the bosonic stimulation effects at room temperature are being developed by laboratories across the world This book addresses the physics of microcavities from classical to quantum optics from a Boltzmann gas to a superfluid It provides the theoretical background needed for understanding the complex phenomena in coupled light matter systems and it presents a broad overview of experimental progress in the physics of microcavities *Bands and Photons in III-V Semiconductor Quantum Structures* Igor Vurgaftman,Matthew P. Lumb,Jerry R. Meyer,2020-11-22 Semiconductor quantum structures are at the core of many photonic devices such as lasers photodetectors solar cells etc To appreciate why they are such a good fit to these devices we must understand the basic features of their band structure and how they interact with incident light Many books have taken on this task in the past but their treatments tend either to pluck results from the literature and present them as received truths or to rely on unrealistically simple models Bands and Photons in III V Semiconductor Quantum Structures takes the reader from the very basics of III V semiconductors some preparation in quantum mechanics and electromagnetism is helpful and shows how seemingly obscure results such as detailed forms of the Hamiltonian optical transition strengths and recombination mechanisms follow The reader would not need to consult other references to fully understand the material although a few handpicked sources are listed for those who would like to deepen their knowledge further Connections to the properties of novel materials such as graphene and transition metal dichalcogenides are pointed out to help prepare the reader for contributing at the forefront of research in those fields The book also supplies a complete up to date database of the band parameters that enter into the calculations along with tables of optical constants and interpolation schemes for alloys From these foundations the book goes on to derive the characteristics of photonic semiconductor devices with a focus on the mid infrared using the same principles of building all concepts from the ground up explaining all derivations in detail giving quantitative examples and laying out dimensional arguments whenever they can help the reader s understanding **Universal Themes of Bose-Einstein Condensation** Nick P. Proukakis,David W. Snoke,Peter B. Littlewood,2017-04-27 Covering general theoretical concepts and the research to date this book demonstrates that Bose Einstein condensation is a truly universal phenomenon *Plasmonic Effects in*

*Metal-semiconductor Nanostructures* Alexey A. Toropov, Tatiana V. Shubina, 2015 One of the most promising trends in modern nanophotonics is the employment of plasmonic effects in the engineering of advanced device nanostructures This book implements the binocular vision of such a complex metal semiconductor system examining both the constituents and reviewing the characteristics of promising constructive materials



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