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Semiconductor Cavity Quantum Electrodynamics



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Semiconductor Cavity Quantum Electrodynamics Y. Yamamoto, F. Tassone, H. Cao, 2014-03-12 This monograph is the first to give a comprehensive account of the theory of semiconductor cavity quantum electrodynamics for such systems in the weak coupling and strong coupling regimes It presents the important concepts together with relevant recent experimental results

1D and 2D Photonic Crystal Nanocavities for Semiconductor Cavity QED. Benjamin Colby Richards, 2011 The topic of this dissertation is photonic crystal nanocavities for semiconductor cavity quantum electrodynamics For the purposes of this study these nanocavities may be one dimensional 1D or two dimensional 2D in design The 2D devices are active and contain embedded InAs quantum dots QDs whereas the 1D devices are passive and contain no active emitters The 2D photonic crystal nanocavities are fabricated in a slab of GaAs with a single layer of InAs QDs embedded in the slab When a cavity mode substantially overlaps the QD ensemble the dots affect the linewidths of the observed modes leading to broadening of the linewidth at low excitation powers due to absorption and narrowing of the linewidths at high excitation powers due to gain when the QD ensemble absorption is saturated We observe lasing from a few QDs in such a nanocavity A technique is discussed which allows us to tune the resonance wavelength of a nanocavity by condensation of an inert gas onto the sample which is held at cryogenic temperatures The structural quality at the interfaces of epitaxially grown semiconductor heterostructures is investigated and a growth instability is discovered which leads to roughness on the bottom of the GaAs slabs Adjustment of MBE growth parameters leads to the elimination of this roughness and the result is higher nanocavity quality factors A number of methods for optimizing the fabrication of nanocavities is presented which lead to higher quality factors It is shown that some fundamental limiting factor not yet fully understood is preventing high quality factors at wavelengths shorter than 950 nm Silicon 1D devices without active emitters are investigated by means of a tapered microfiber loop and high quality factors are observed This measurement technique is compared to a cross polarized resonant scattering method The quality factors observed in the silicon nanocavities are higher than those observed in GaAs consistent with our observation that quality factors are in general higher at longer wavelengths

Semiconductor Cavity QED and Related Devices Hui Cao, 1997 Cavity Quantum Electrodynamics in Semiconductor Laser Y. Yamamoto, R. Horowicz, S. Machida, G. Björk, W. H. Richardson, NIPPON TELEGRAPH AND TELEPHONE CORP TOKYO., 1992 A one dimension planar microcavity structure shown in can increase the coupling efficiency Beta of spontaneous emission into a single cavity resonant mode if the spontaneous emission spectral width $\Delta\omega$ is smaller than the microcavity resonance width $\Delta\omega_c$ and if the refractive index difference Δn is fairly large The loss of spontaneous emission into

spurious modes $1/\beta$ are clue to the two degenerate orthogonal polarization modes and the leaky guided modes propagating in a plane of the microcavity A three dimensional waveguide microcavity structure shown in features several advantages over the one dimensional structure The increase in β is realized without requiring $\Delta\omega \ll \omega$ and large Δn The degeneracy of the two orthogonal polarization modes can be lifted and the leaky guided modes can be made cut off by the waveguide structure Therefore the spurious spontaneous emission into these modes can be suppressed The spontaneous emission lifetime T can be also decreased in the three dimensional microcavity On the other hand the one dimensional microcavity cannot decrease τ_{av} but can only increase τ_{av} **Quantum**

Optics with Semiconductor Nanostructures Frank Jahnke, 2012-07-16 An understanding of the interaction between light and matter on a quantum level is of fundamental interest and has many applications in optical technologies The quantum nature of the interaction has recently attracted great attention for applications of semiconductor nanostructures in quantum information processing Quantum optics with semiconductor nanostructures is a key guide to the theory experimental realisation and future potential of semiconductor nanostructures in the exploration of quantum optics Part one provides a comprehensive overview of single quantum dot systems beginning with a look at resonance fluorescence emission Quantum optics with single quantum dots in photonic crystal and micro cavities are explored in detail before part two goes on to review nanolasers with quantum dot emitters Light matter interaction in semiconductor nanostructures including photon statistics and photoluminescence is the focus of part three whilst part four explores all solid state quantum optics crystal nanobeam cavities and quantum dot microcavity systems Finally part five investigates ultrafast phenomena including femtosecond quantum optics and coherent optoelectronics with quantum dots With its distinguished editor and international team of expert contributors Quantum optics with semiconductor nanostructures is an essential guide for all those involved with the research development manufacture and use of semiconductors nanodevices lasers and optical components as well as scientists researchers and students A key guide to the theory experimental realisation and future potential of semiconductor nanostructures in the exploration of quantum optics Chapters provide a comprehensive overview of single quantum dot systems nanolasers with quantum dot emitters and light matter interaction in semiconductor nanostructures Explores all solid state quantum optics crystal nanobeam cavities and quantum dot microcavity systems and investigates ultrafast phenomena The Physics of Semiconductors Marius Grundmann, 2015-12-24 The 3rd edition of this successful textbook contains ample material for a comprehensive upper level undergraduate or beginning graduate course guiding readers to the point where they can choose a special topic and begin supervised research The textbook provides a balance between essential aspects of solid state and semiconductor physics on the one hand and the principles of various semiconductor devices and their applications in electronic and photonic devices on the other It highlights many practical aspects of semiconductors such as alloys strain heterostructures nanostructures that are necessary in modern semiconductor research

but typically omitted in textbooks Coverage also includes additional advanced topics such as Bragg mirrors resonators polarized and magnetic semiconductors nanowires quantum dots multi junction solar cells thin film transistors carbon based nanostructures and transparent conductive oxides The text derives explicit formulas for many results to support better understanding of the topics The Physics of Semiconductors requires little or no prior knowledge of solid state physics and evolved from a highly regarded two semester course In the third edition several topics are extended and treated in more depth including surfaces disordered materials amorphous semiconductors polarons thermopower and noise More than 1800 references guide the reader to historic and current literature including original and review papers and books

Optical Generation and Control of Quantum Coherence in Semiconductor Nanostructures Gabriela Slavcheva,Philippe Roussignol,2010-06-01 The fundamental concept of quantum coherence plays a central role in quantum physics cutting across disciplines of quantum optics atomic and condensed matter physics Quantum coherence represents a universal property of the quantum systems that applies both to light and matter thereby tying together materials and phenomena Moreover the optical coherence can be transferred to the medium through the light matter interactions Since the early days of quantum mechanics there has been a desire to control dynamics of quantum systems The generation and control of quantum coherence in matter by optical means in particular represents a viable way to achieve this longstanding goal and semiconductor nanostructures are the most promising candidates for controllable quantum systems Optical generation and control of coherent light matter states in semiconductor quantum nanostructures is precisely the scope of the present book Recently there has been a great deal of interest in the subject of quantum coherence We are currently witnessing parallel growth of activities in different physical systems that are all built around the central concept of manipulation of quantum coherence The burgeoning activities in solid state systems and semiconductors in particular have been strongly driven by the unprecedented control of coherence that previously has been demonstrated in quantum optics of atoms and molecules and is now taking advantage of the remarkable advances in semiconductor fabrication technologies A recent impetus to exploit the coherent quantum phenomena comes from the emergence of the quantum information paradigm

Semiconductor Photonics of Nanomaterials and Quantum Structures Arash Rahimi-Iman,2021-04-23 This book introduces the wider field of functional nanomaterials sciences with a strong emphasis on semiconductor photonics Whether you are studying photonic quantum devices or just interested in semiconductor nanomaterials and their benefits for optoelectronic applications this book offers you a pedagogical overview of the relevant subjects along with topical reviews The book discusses different yet complementary studies in the context of ongoing international research efforts delivering examples from both fundamental and applied research to a broad readership In addition a hand full of useful optical techniques for the characterization of semiconductor quantum structures and materials are addressed Moreover nanostructuring methods for the production of low dimensional systems which exhibit advantageous properties predominantly due to quantum effects are summarized Science

and engineering professionals in the interdisciplinary domains of nanotechnology photonics materials sciences and quantum physics can familiarize themselves with selected highlights with eyes towards photonic applications in the fields of two dimensional materials research light matter interactions and quantum technologies

Electronic Quantum Transport in Mesoscopic Semiconductor Structures Thomas Ihn, 2004-09-09 The physics of semiconductors has seen an enormous evolution within the last few years. Countless achievements have been made in scientific research and device applications have revolutionized everyday life. We have learned how to customize materials in order to tailor their optical as well as electronic properties. The ongoing trend toward device miniaturization has been the driving force on the application side and it has fertilized fundamental research. Nowadays advanced processing techniques allow the fabrication of sub-micron semiconductor structures in many university research laboratories. At the same time experiments down to millikelvin temperatures allow researchers to anticipate the observation of quantum phenomena so far hidden at room temperature by the large thermal energy and strong dephasing. The field of mesoscopic physics deals with systems under experimental conditions where several quantum length scales for electrons such as system size and phase coherence length or phase coherence length and elastic mean free path are comparable. Intense research over the last twenty years has revealed an enormous richness of quantum effects in mesoscopic semiconductor physics which is typically characterized by an interplay of quantum interference and many-body interactions. The most famous phenomena are probably the integer and fractional quantum Hall effects, the quantization of conductance through a quantum point contact, the Aharonov-Bohm effect and single electron charging of quantum dots.

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 Nanophotonics. 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.

Physics of Semiconductor Microcavities Benoit Deveaud, 2007-02-27 Electron and photon confinement in semiconductor nanostructures is one of the most active

areas in solid state research Written by leading experts in solid state physics this book provides both a comprehensive review as well as a excellent introduction to fundamental and applied aspects of light matter coupling in microcavities Topics covered include parametric amplification and polariton liquids quantum fluid and non linear dynamical effects and parametric instabilities polariton squeezing Bose Einstein condensation of microcavity polaritons spin dynamics of exciton polaritons polariton correlation produced by parametric scattering progress in III nitride distributed Bragg reflectors using AlInN GaN materials high efficiency planar MCLEDs exciton polaritons and nanoscale cavities in photonic crystals and MBE growth of high finesse microcavities *Semiconductor Quantum Science and Technology*, 2020-11-28 Semiconductor quantum science and technology is exploring the exciting and emerging prospects of integrating quantum functionality on semiconductor platforms to convert current information technology into quantum information technology The past twenty years have led to incredible advances in this field This book brings together the leading scientists who present the main achievements and challenges by reviewing and motivating the state of the art at a tutorial level The key challenges include creating quantum light sources quantum information processing via strong light matter interaction discovering new quantum materials as well as quasiparticles and determining new quantum spectroscopic methodologies for superior control of quantum phenomena As an important step integration of these solutions on a semiconductor chip is discussed and outlook for the future of semiconductor quantum science and technology is given Leading experts present their vision on semiconductor quantum science and technology All aspects needed to realize semiconductor quantum science and technology are explained Quantum semiconductors from overviewed a tutorial introduction to the state of the art [Semiconductor Nanolasers](#) Qing Gu, Yeshaiah Fainman, 2017-02-16 A unique and comprehensive resource covering the fundamentals of nanolasers with details of design fabrication and applications [Physics of Semiconductors 2002](#) J.H Davies, A.R Long, 2003-05-01 The 26th International Conference on the Physics of Semiconductors was held from 29 July to 2 August 2002 at the Edinburgh International Conference Centre It is the premier meeting in the field of semiconductor physics and attracted over 1000 participants from leading academic governmental and industrial institutions in some 50 countries around the world Plenary and invited papers 34 have been printed in the paper volume and all submitted papers 742 are included on the CD ROM These proceedings provide an international perspective on the latest research and a review of recent developments in semiconductor physics Topics range from growth and properties of bulk semiconductors to the optical and transport properties of semiconductor nanostructures There are 742 papers mostly arranged in chapters on Bulk dynamics defects and impurities growth 147 Heterostructures quantum wells superlattices optical 138 Heterostructures quantum wells superlattices transport 97 Quantum nanostructures optical 120 Quantum nanostructures transport 85 New materials and concepts 52 Novel devices 43 and Spin and magnetic effects 48 A number of trends were identified in setting up the overall programme of the conference There were significant contributions from new directions of research such as nanostructures

and one dimensional physics spin effects and ferromagnetism and terahertz and subband physics These complemented areas in which the conference has traditional strengths such as defects and bulk materials crystal growth quantum transport and optical properties As a record of a conference that covers the whole range of semiconductor physics this book is an essential reference for researchers working on semiconductor physics device physics materials science chemistry and electronic and electrical engineering

Semiconductor Physics Karl W. Böer, Udo W. Pohl, 2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and engineers throughout academia and industry

Spatio-Temporal Dynamics and Quantum Fluctuations in Semiconductor Lasers Edeltraud Gehrig, Ortwin Hess, 2003-09-22 Presents fundamental theories and simulations of the spatio temporal dynamics and quantum fluctuations in semiconductor lasers The dynamic interplay of light and matter is theoretically described by taking into account microscopic carrier dynamics spatially dependent light field propagation and the influence of spontaneous emission and noise

Applied Asymptotic Expansions in Momenta and Masses Vladimir A. Smirnov, 2003-07-01 The sturgeon they sent was second grade fresh said the barman Really what nonsense Why nonsense Second grade fresh that s what I call nonsense There s only one degree of freshness the first and it s the last M A Bulgakov The Master and Margarita The goal of this book is to describe in detail how Feynman integrals can be expanded in suitable parameters when various momenta or masses are small or large In a narrow sense this problem is connected with practical calculations In a situation where a given Feynman integral depends on parameters of very different scales a natural idea is to replace it by a sufficiently large number of terms of an expansion of it in ratios of small and large scales It will be explained how this problem of expansion can be systematically solved by formulating universal prescriptions that express terms of the expansion by using the original Feynman integral with its integrand expanded into a Taylor series in appropriate momenta and masses It turns out that knowledge of the structure of the asymptotic expansion at the diagrammatic level is a key point in understanding how to perform expansions at the operator level There are various examples of these expansions the operator product expansion the large mass expansion Heavy Quark Effective Theory Non Relativistic QCD etc Each of them serves as a realization of the

factorization of contributions of different scales *Uncovering CP Violation* Konrad Kleinknecht, 2003-10-23 Description of experiments that uncovered the nature of CP violation and the phenomenology describing CP violation The author Konrad Kleinknecht received the Leibniz award of the Deutsche Forschungsgemeinschaft 1990 and the Gentner Kastler prize and medal of SFP and DPG 2001 *Electroweak Symmetry Breaking* Wolfgang Kilian, 2003-09-02 The systematic bottom up approach provides the appropriate framework for interpreting measurements that will be performed to better understand the physics of mass generation in the universe No knowledge of quantum field theory is required other than familiarity with effective Lagrangians and Feynmann diagrams

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