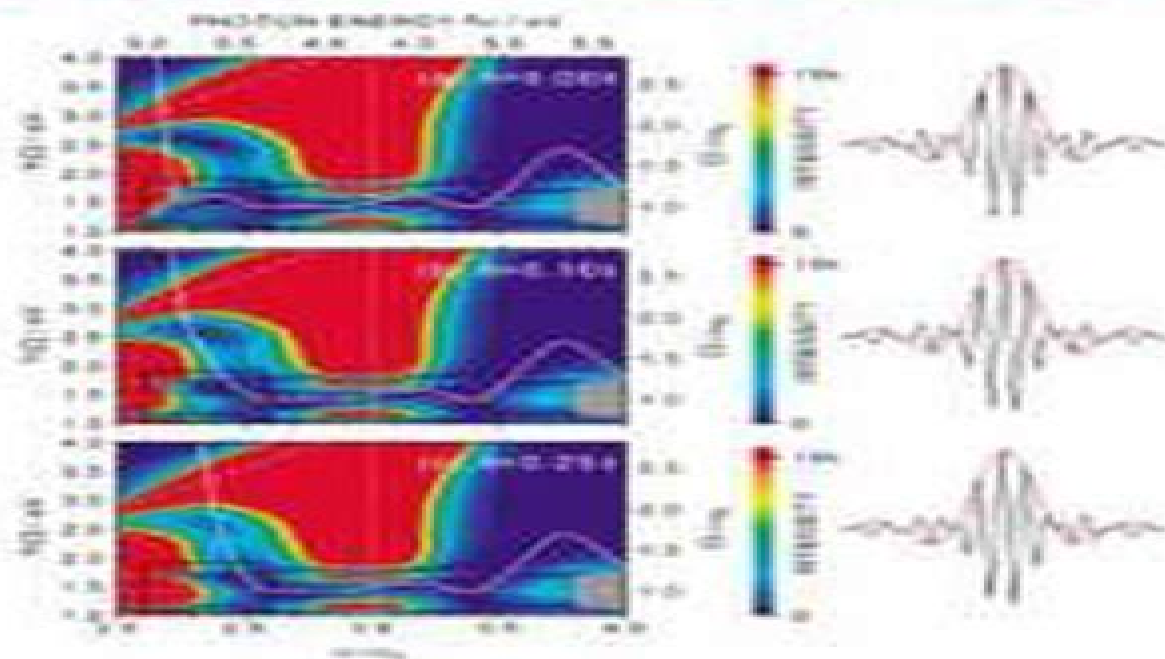


# Quantum Coherence, Correlation and Decoherence in Semiconductor Nanostructures



T. Takagahara



# Quantum Coherence Correlation And Decoherence In Semiconductor Nanostructures

**Toshihide Takagahara**



## **Quantum Coherence Correlation And Decoherence In Semiconductor Nanostructures:**

Quantum Coherence Correlation and Decoherence in Semiconductor Nanostructures Toshihide Takagahara, 2003-02-10  
Semiconductor nanostructures are attracting a great deal of interest as the most promising device with which to implement quantum information processing and quantum computing This book surveys the present status of nanofabrication techniques near field spectroscopy and microscopy to assist the fabricated nanostructures It will be essential reading for academic and industrial researchers in pure and applied physics optics semiconductors and microelectronics The first up to date review articles on various aspects on quantum coherence correlation and decoherence in semiconductor nanostructures **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 *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

*Electron and Photon Confinement in Semiconductor Nanostructures* Benoît Deveaud, Antonio Quattropani, Paolo Schwendimann, Società italiana di fisica, 2003 The purpose of this course was to give an overview of the physics of artificial semiconductor structures confining electrons and photons It furnishes the background for several applications in particular in the domain of optical devices lasers light emitting diodes or photonic crystals The effects related to the microactivity polaritons which are mixed electromagnetic radiation exciton states inside a semiconductor microactivity are covered The study of the characteristics of such states shows strong relations with the domain of cavity quantum electrodynamics and thus with the investigation of some fundamental theoretical concepts

Characterization of Semiconductor Heterostructures and Nanostructures S. Sanguinetti, M. Guzzi, E. Gatti, M. Gurioli, 2013-04-11

**Characterization of Semiconductor Heterostructures and Nanostructures** Giovanni Agostini, Carlo Lamberti, 2013-04-11

Characterization of Semiconductor Heterostructures and Nanostructures is structured so that each chapter is devoted to a specific characterization technique used in the understanding of the properties structural physical chemical electrical etc of semiconductor quantum wells and superlattices An additional chapter is devoted to ab initio modeling The book has two basic aims The first is educational providing the basic concepts of each of the selected techniques with an approach understandable by advanced students in Physics Chemistry Material Science Engineering Nanotechnology The second aim is to provide a selected set of examples from the recent literature of the TOP results obtained with the specific technique in understanding the properties of semiconductor heterostructures and nanostructures Each chapter has this double structure the first part devoted to explain the basic concepts and the second to the discussion of the most peculiar and innovative examples The topic of quantum wells wires and dots should be seen as a pretext of applying top level characterization techniques in understanding the structural electronic etc properties of matter at the nanometer and even sub nanometer scale In this respect it is an essential reference in the much broader and extremely hot field of Nanotechnology

Comprehensive collection of the most powerful characterization techniques for semiconductors heterostructures and nanostructures Most of the chapters are authored by scientists that are world wide among the top ten in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapters deals with a selection of top examples highlighting the power of the specific technique to analyse the properties of semiconductors heterostructures and nanostructures

*Semiconductor Optics* Claus F. Klingshirn, 2006-01-02 The book on Semiconductor Optics has been favourably received by the students and the scientific community worldwide After the first edition which appeared in 1995 several reprints became necessary starting from 1997 one of them for the Chinese market They contained only rather limited updates of the material and corrections In the meantime scientific progress brought a lot of new results which necessitate a new seriously revised edition This progress includes bulk semiconductors but especially structures of reduced dimensionality These new trends and results are partly included in existing chapters e.g. for phonons or for time

resolved spectroscopy partly new chapters have been introduced like the ones on cavity polaritons and photonic structures. We based the description of the optical properties again on the simple and intuitively clear model of the Lorentz oscillators and the concept of polaritons as the quanta of light in matter. But since there is presently a trend to describe at least the optical properties of the electronic system of semiconductors by the optical or the semiconductor Bloch equations, a chapter has been added on this topic written by Prof Dr R v Baltz Karlsruhe to familiarize the reader with this concept too which needs a bit more quantum mechanics compared to the approach used here. The chapter on group theory has been revised by Prof Dr K Hummer Karlsruhe. Forchheim Karlsruhe C F Klingshirn September 2004.

**Preface to the First Edition**

One of the most prominent senses of many animals and of course of human beings is sight or vision. Advances in Lasers and Electro Optics Nelson Costa, Adolfo Cartaxo, 2010-04-01. Lasers and electro optics is a field of research leading to constant breakthroughs. Indeed tremendous advances have occurred in optical components and systems since the invention of laser in the late 50s with applications in almost every imaginable field of science including control astronomy medicine communications measurements etc. If we focus on lasers for example we find applications in quite different areas. We find lasers for instance in industry emitting power level of several tens of kilowatts for welding and cutting in medical applications emitting power levels from few milliwatt to tens of Watt for various types of surgeries and in optical fibre telecommunication systems emitting power levels of the order of one milliwatt.

This book is divided in four sections. The book presents several physical effects and properties of materials used in lasers and electro optics in the first chapter and in the three remaining chapters applications of lasers and electro optics in three different areas are presented.

**Anderson Localization and Its Ramifications** Tobias Brandes, Stefan Kettmann, 2003-09-11. The phenomenon of localization of the electronic wave function in a random medium can be regarded as the key manifestation of quantum coherence in a condensed matter system. As one of the most remarkable phenomena in condensed matter physics discovered in the 20th century the localization problem is an indispensable part of the theory of the quantum Hall effects and rivals superconductivity in its significance as a manifestation of quantum coherence at a macroscopic scale. The present volume written by some of the leading experts in the field is intended to highlight some of the recent progress in the field of localization with particular emphasis on the effect of interactions on quantum coherence. The chapters are written in textbook style and should serve as a reliable and thorough introduction for advanced students or researchers already working in the field of mesoscopic physics.

Semiconductor Optics 2 Heinz Kalt, Claus F. Klingshirn, 2024-03-16. This book provides an introduction to and an overview of the multifaceted area of dynamics and nonlinearities related to optical excitations in semiconductors. It is a revised and significantly extended edition of the well established book by C Klingshirn split into two volumes and restructured to make it more concise. Inserts on important experimental techniques reference to topical research and novel materials as well as consideration of photonic applications support research oriented teaching and

learning This book reviews nonlinear optical properties and many body phenomena evoked by high densities of quasi particles in semiconductors Coherent dynamics and relaxation of optical excitations carriers excitons electron hole plasmas etc as well as condensation phenomena are elucidated in these materials A broad overview is provided of seminal research results augmented by detailed descriptions of the relevant experimental techniques e g ultrafast spectroscopy four wave mixing and the Hanbury Brown and Twiss experiment Offering a comprehensive introduction to hot topics in current research polariton condensates valley coherence and single photons to name a few it also discusses applications of the described physical concepts in topical areas such as quantum information photonics spintronics and optoelectronics Covering subjects ranging from physics to materials science and optoelectronics the book provides a lively and comprehensive introduction to semiconductor optics beyond the linear regime With many problems chapter introductions schematic depictions of physical phenomena as well as boxed inserts and a detailed index it is suitable for use in graduate courses in physics and neighboring sciences like material science and optical communication It is also a valuable reference resource for doctoral and advanced researchers 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 an 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

*Spintronics in Nanoscale Devices* Eric R. Hedin, Yong S. Joe, 2016-04-19 By exploiting the novel properties of quantum dots and nanoscale Aharonov Bohm rings together with the electronic and magnetic properties of various semiconductor materials and graphene researchers have conducted numerous theoretical and computational modeling studies and experimental tests that show promising behavior for spintronics applications *Superlattice to Nanoelectronics* Raphael Tsu, 2005-04-04 Superlattice to Nanoelectronics provides a historical overview of the early work performed by Tsu and Esaki to orient those who want to enter into this nanoscience It describes the fundamental concepts and goes on to answer many questions about today's Nanoelectronics It covers the applications and types of devices which have been produced many of which are still in use today This historical perspective is important as a guide to what and how technology and new fundamental ideas are introduced and developed The author communicates a basic understanding of the physics involved from first principles whilst adding new depth using simple mathematics and explanation of the background essentials Topics covered include Introductory materials Superlattice Bloch oscillations and transport Tunneling in QWs to QDs Optical

properties optical transitions size dependent dielectric constant capacitance and doping Quantum devices New approaches without doping and heterojunctions quantum confinement via geometry and multipole electrodes Issues of robustness redundancy and I O Researchers course students and research establishments should read this book written by the leading expert in nanoelectronics and superlattices The Author is one of the founders of the field of superlattices The FIRST historical overview of the field Provides a basic understanding of the physics involved from first principles whilst adding new depth using simple mathematics and explanation of the background essentials      **Magnetoelectronics** Mark Johnson,2004

The arrival of the information age took most people by surprise including scientists and technologists Today research on better smaller and faster ways to store and transfer information continues to grow and growing fast within this scope is the field of magnetoelectronics With its possibilities as a magnetic storage technology capable of overcoming the vulnerabilities of CMOS complementary metal on oxide semiconductor magnetoelectronics promises to be an important installation in the information era      *Magnetoelectronics* Mark Johnson,2004-12-02 The arrival of the information age took most people by surprise including scientists and technologists Today research on better smaller and faster ways to store and transfer information continues to grow and growing fast within this scope is the field of magnetoelectronics With its possibilities as a magnetic storage technology capable of overcoming the vulnerabilities of CMOS complementary metal on oxide semiconductor magnetoelectronics promises to be an important installation in the information era      **Semiconductor Quantum Bits** Fritz Henneberger,Oliver Benson,2016-04-19 This book highlights state of the art qubit implementations in semiconductors and provides an extensive overview of this newly emerging field Semiconductor nanostructures have huge potential as future quantum information devices as they provide various ways of qubit implementation electron spin electronic excitation as well as a way to transfer      **Advanced Semiconductor and Organic Nano-Techniques Part II** Hadis Morkoc,2003-06-26      **Advanced Semiconductor and Organic Nano-Techniques Part III** Hadis Morkoc,2003-06-26 Physical sciences and engineering as well as biological sciences have recently made great strides in their respective fields More importantly the cross fertilization of ideas paradigms and methodologies have led to the unprecedented technological developments in areas such as information processing full colour semiconductor displays compact biosensors and controlled drug discovery to name a few Top experts in their respective fields have come together to discuss the latest developments and the future of micro nano electronics They investigate issues to be faced in ultimate limits such as single electron transistors zero dimensional systems for unique properties thresholdless lasers electronics based on inexpensive and flexible plastic chips cell manipulation biosensors DNA based computers quantum computing DNA sequencing chips micro fluidics nanomotors based on molecules molecular electronics and recently emerging wide bandgap semiconductors for emitters detectors and power amplifiers Contributions from top experts in this field Covers a wide range of topics      Advanced Semiconductor and Organic Nano-techniques: Tunable bandgaps and nanotubes ,2003      **Advanced**

**Semiconductor and Organic Nano-Techniques Parts I, II and III** Hadis Morkoc, 2003-12-19 Physical sciences and engineering as well as biological sciences have recently made great strides in their respective fields. More importantly, the cross fertilization of ideas, paradigms and methodologies have led to the unprecedented technological developments in areas such as information processing, full colour semiconductor displays, compact biosensors and controlled drug discovery, to name a few. Top experts in their respective fields have come together to discuss the latest developments and the future of micro nano electronics. They investigate issues to be faced in ultimate limits such as single electron transistors, zero dimensional systems for unique properties, thresholdless lasers, electronics based on inexpensive and flexible plastic chips, cell manipulation, biosensors, DNA based computers, quantum computing, DNA sequencing chips, micro fluidics, nanomotors based on molecules, molecular electronics and recently emerging wide bandgap semiconductors for emitters, detectors and power amplifiers.



Quantum Coherence Correlation And Decoherence In Semiconductor Nanostructures: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Quantum Coherence Correlation And Decoherence In Semiconductor Nanostructures : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Quantum Coherence Correlation And Decoherence In Semiconductor Nanostructures : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Quantum Coherence Correlation And Decoherence In Semiconductor Nanostructures : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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