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(Eds.)

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Semiconductor Spintronics And Quantum Computation

Vladimir Litvinov

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Semiconductor Spintronics and Quantum Computation D.D. Awschalom, D. Loss, N. Samarth, 2013-04-17 The past few decades of research and development in solid state semiconductor physics and electronics have witnessed a rapid growth in the drive to exploit quantum mechanics in the design and function of semiconductor devices This has been fueled for instance by the remarkable advances in our ability to fabricate nanostructures such as quantum wells quantum wires and quantum dots Despite this contemporary focus on semiconductor quantum devices a principal quantum mechanical aspect of the electron its spin has it accounts for an added quantum largely been ignored except in as much as quantum mechanical degeneracy In recent years however a new paradigm of electronics based on the spin degree of freedom of the electron has begun to emerge This field of semiconductor spintronics spin transport electronics or spin based electronics places electron spin rather than charge at the very center of interest The underlying basis for this new electronics is the intimate connection between the charge and spin degrees of freedom of the electron via the Pauli principle A crucial implication of this relationship is that spin effects can often be accessed through the orbital properties of the electron in the solid state Examples for this are optical measurements of the spin state based on the Faraday effect and spin dependent transport measurements such as giant magnetoresistance GMR In this manner information can be encoded in not only the electron's charge but also in its spin state i.e. Optoelectronic Structures for Semiconductor Spintronics and Quantum Computation Darron Kuan Hua Young, 2002

Experimental Aspects of Quantum Computing Henry O. Everitt, 2005-04-01 Practical quantum computing still seems more than a decade away and researchers have not even identified what the best physical implementation of a quantum bit will be There is a real need in the scientific literature for a dialogue on the topic of lessons learned and looming roadblocks This reprint from Quantum Information Processing is dedicated to the experimental aspects of quantum computing and includes articles that 1 highlight the lessons learned over the last 10 years and 2 outline the challenges over the next 10 years The special issue includes a series of invited articles that discuss the most promising physical implementations of quantum computing The invited articles were to draw grand conclusions about the past and speculate about the future not just report results from the present

Semiconductor Spintronics Thomas Schäpers, 2021-05-10 This revised and expanded edition of the first comprehensive introduction to the rapidly evolving field of spintronics covers ferromagnetism in nano electrodes spin injection spin manipulation and the practical use of these effects in next generation electronics Moreover the book now also includes spin based optics topological materials and insulators and the quantum spin Hall effect

Wide Bandgap Semiconductor Spintronics Vladimir Litvinov, 2024-04-26 This second edition of the book presents spintronic properties of III V nitride semiconductors As wide bandgap III nitride nanostructures are relatively new materials the book pays particular attention to the difference between zinc blende GaAs and wurtzite GaN based structures where the Rashba spin orbit interaction plays a crucial role in voltage controlled spin

engineering It also deals with topological insulators and discusses electrically driven zero magnetic field spin splitting of surface electrons with respect to the specifics of electron localized spin interaction and voltage controlled ferromagnetism It describes the recently identified zero gap state an anomalous quantum semimetal The book comprises calculation of topological indexes in semiconductor and semimetal phases It compares results that follow from the low energy model and the Bernevig Huges Zhang model which accounts for the full Brillouin zone electron spectrum It also discusses the fractional quantization of Hall conductance and performs the direct calculation of Chern numbers for the inverted GaN InN quantum well determining topological properties by Chern number $C/2$ The book explores and actively discusses semiconductor spintronics and proposes various device implementations along the way Although writings on this topic appear in the current literature this book is focused on the materials science side of the question providing a theoretical background for the most common concepts of spin electron physics It covers generic topics in spintronics without entering into device specifics since its aim is to give instructions to be used in solving problems of a general and specific nature It is intended for graduate students and will serve as an introductory course in this specific field of solid state theory and applications

Isotope-Based Quantum Information Vladimir G. Plekhanov, 2012-05-26 The present book provides to the main ideas and techniques of the rapid progressing field of quantum information and quantum computation using isotope mixed materials It starts with an introduction to the isotope physics and then describes of the isotope based quantum information and quantum computation The ability to manipulate and control electron and or nucleus spin in semiconductor devices provides a new route to expand the capabilities of inorganic semiconductor based electronics and to design innovative devices with potential application in quantum computing One of the major challenges towards these objectives is to develop semiconductor based systems and architectures in which the spatial distribution of spins and their properties can be controlled For instance to eliminate electron spin decoherence resulting from hyperfine interaction due to nuclear spin background isotopically controlled devices are needed i e nuclear spin depleted In other emerging concepts the control of the spatial distribution of isotopes with nuclear spins is a prerequisite to implement the quantum bits or qubits Therefore stable semiconductor isotopes are important elements in the development of solid state quantum information There are not only different algorithms of quantum computation discussed but also the different models of quantum computers are presented With numerous illustrations this small book is of great interest for undergraduate students taking courses in mesoscopic physics or nanoelectronics as well as quantum information and academic and industrial researches working in this field

Manipulating Quantum Coherence in Solid State Systems Michael E. Flatté, Ionel Tifrea, 2007-05-30 This book features the proceedings of the NATO Advanced Study Institute Manipulating Quantum Coherence in Solid State Systems held in Cluj Napoca Romania August 2005 which presented a fundamental introduction to solid state approaches to achieving quantum computation This proceedings volume describes the properties of quantum coherence in semiconductor spin based systems

and the behavior of quantum coherence in superconducting systems

Non-Equilibrium Dynamics of Semiconductors

and Nanostructures Kong-Thon Tsen, 2018-10-03 The advent of the femto second laser has enabled us to observe phenomena at the atomic timescale One area to reap enormous benefits from this ability is ultrafast dynamics Collecting the works of leading experts from around the globe Non Equilibrium Dynamics of Semiconductors and Nanostructures surveys recent developments in a variety of areas in ultrafast dynamics In eight authoritative chapters illustrated by more than 150 figures this book spans a broad range of new techniques and advances It begins with a review of spin dynamics in a high mobility two dimensional electron gas followed by the generation propagation and nonlinear properties of high amplitude ultrashort strain solitons in solids The discussion then turns to nonlinear optical properties of nanoscale artificial dielectrics optical properties of GaN self assembled quantum dots and optical studies of carrier dynamics and non equilibrium optical phonons in nitride based semiconductors Rounding out the presentation the book examines ultrafast non equilibrium electron dynamics in metal nanoparticles monochromatic acoustic phonons in GaAs and electromagnetically induced transparency in semiconductor quantum wells With its pedagogical approach and practical up to date coverage Non Equilibrium Dynamics of Semiconductors and Nanostructures allows you to easily put the material into practice whether you are a seasoned researcher or new to the field

Handbook of Spintronic Semiconductors

Weimin Chen, Irina Buyanova, 2019-05-08 This book provides an in depth review of the rapidly developing field of spintronic semiconductors It covers a broad range of topics including growth and basic physical properties of diluted magnetic semiconductors based on II VI III V and IV semiconductors recent developments in theory and experimental techniques and potential device applications its aim is to provide postgraduate students researchers and engineers a comprehensive overview of our present knowledge and future perspectives of spintronic semiconductors

Optoelectronics and Spintronics in Smart Thin Films

James Ayodele Oke, Tien-Chien Jen, 2023-12-06 Smart thin films composed of functional materials deposited in thin layers have opened new avenues for the development of flexible lightweight and high performance devices Optoelectronics and Spintronics in Smart Thin Films presents a comprehensive overview of this emerging area and details the current and near future integration of smart thin films in solar cells and memory storage Offers an overview of optoelectronics and spintronics Discusses synthesis of smart nanomaterials Describes deposition techniques and characterization of thin films Considers the integration and application of opto spintronics for technological advancement of solar cells and memory storage devices Focused on advancing research on this evolving subject this book is aimed at advanced students researchers and engineers in materials chemical mechanical and electrical engineering as well as applied physics

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api compatibility the connection s buttress thread profile makes it fully compatible with standard api buttress connections by being api compatible in both pin and box operators can use standard api accessories and draw on a wide range of threading and repair shops providing flexibility and efficiency

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oil threads vertical api thread form pitch tpi l i c in taper ipf external ordering code y t connection no or size v 0 040 5 27 5 8 3 tnmb 54 er 5 api 403 2 5 6 4 2 3 8 4 1 2 reg v 0 038r 4 27 5 8 2 tnmc 55 er 4 api 382 2 8 7 94 nc23 nc50 v 0 038r 4 27 5 8 3 tnmc 55 er 4 api 383 2 8 7 94 nc56 nc77 v 0 050 4 27 5 8 2 tnmc 55 er 4 api 502 3

buttress thread wikipedia - Aug 06 2022

may 17 2005 buttress thread two types of buttress thread profiles used in machinery buttress thread forms also known as sawtooth thread forms 1 or breech lock thread forms 2 are screw thread profiles with an asymmetric shape having one

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casing pipe dimensions and weight chart for api round thread and buttress thread labels outside diameter nominal linear mass t c wall thickness inside diameter drift diameter calculated mass c plain end mass gain or loss due to end finishing lb round thread buttress thread 1 2 00 d in lb ft t in d in in lb ft short long rc scc

api buttress connections tenaris - Jul 17 2023

inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

types of threads for casing pipe equipoutlet - Mar 01 2022

btc buttress threading this thread is designed to improve axial tensile or axial compressive load capacity and to provide leakage resistance ltc stc and btc are the same in appearance how to distinguish them that depends the outside diameter and application what s the use of ltc stc and btc

api coupling and threads for casing and tubing octalsteel - Sep 07 2022

api couplings and threads must comply with c 32 and c 33 or e 32 and e 33 below are two common api coupling dimensions btc for casing and eue for tubing api buttress casing couplings dimensions btc casing coupling api external upset tubing coupling dimensions eue tubing coupling other requirements in api 5ct standard 1 appearance quality

specification for threading gauging and thread inspection of - May 03 2022

pipe threads api specification 5b fifteenth edition april 2008 effective date october 1 2008 specification for threading gauging and thread inspection of casing tubing and line pipe threads upstream segment api specification 5b fifteenth edition april 2008