



Advances in Solid State Physics 46 [

Deutsche Physikalische Gesellschaft (1963-).
Spring Meeting (2006 :.

Dresden, Germany)

Springer Berlin Heidelberg :

Imprint: Springer,
2008

Monografía

The present volume 46 of *Advances in Solid State Physics* contains the written versions of selected invited lectures from the spring meeting of the Arbeitskreis Festkörperphysik of the Deutsche Physikalische Gesellschaft which was held from 27 to 31 March 2006 in Dresden, Germany. Many topical talks given at the numerous symposia are included. Most of these were organized collaboratively by several of the divisions of the Arbeitskreis. The topics range from zero-dimensional physics in quantum dots, molecules and nanoparticles over one-dimensional physics in nanowires and 1d systems to more applied subjects like optoelectronics and materials science in thin films. The contributions span the whole width of solid-state physics from truly basic science to applications

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Título: *Advances in Solid State Physics 46* [Recurso electrónico] edited by Rolf Haug

Edición: 1st ed. 2008

Editorial: Berlin, Heidelberg Springer Berlin Heidelberg Imprint: Springer 2008

Descripción física: 1 online resource (344 p.)

Mención de serie: *Advances in Solid State Physics* 1438-4329 46

Nota general: Description based upon print version of record

Bibliografía: Includes bibliographical references and index

Contenido: Quantum Dots -- Single Photons from Single Quantum Dots — New Light for Quantum Information Processing -- Quantum-Dot Spin Qubit and Hyperfine Interaction -- Counting Statistics of Single Electron Transport in a Semiconductor Quantum Dot -- Size-Tunable Exchange Interaction in InAs/GaAs Quantum Dots -- Quantum Dots in Planar Cavities — Single and Entangled Photon Sources -- Molecules and Nanoparticles -- Periodic Structure Formation in Polymer Films with Embedded Gold Nanoparticles -- Proteins and Patients — Magnetic Nanoparticles as Analytic Markers -- Novel Quantum Transport Effects in Single-Molecule Transistors -- Nanowires and 1D Systems -- Growth Evolution and Characterization of PLD Zn(Mg)O Nanowire Arrays -- Spin-

Transfer Torques in Single-Crystalline Nanopillars -- Andreev Reflection in Nb-InAs Structures: Phase Coherence, Ballistic Transport and Edge Channels -- Selective Edge Excitation — Inter-Edge Magnetoplasmon Mode and Inter-Edge Spin Diode -- Decoherence of Fermions Subject to a Quantum Bath -- Correlation Effects on Electronic Transport through Dots and Wires -- Optoelectronics -- Ultrafast Dynamics of Optically-Induced Charge and Spin Currents in Semiconductors -- From a Fundamental Understanding of Phase Change Materials to Optimization Rules for Nonvolatile Optical and Electronic Storage -- GaInAs/AlAsSb Quantum Cascade Lasers: A New Approach towards 3-to-5 μ m Semiconductor Lasers -- Thin Films and Materials -- Hydrostatic Pressure Effects in the Magnetocaloric Compounds $R_5(\text{SixGe}_{1-x})_4$ -- Magnetoelectric Correlations in Multiferroic Manganites Revealed by Nonlinear Optics -- Domain Wall Formation in Ferromagnetic Layers: An Ab Initio Study -- Domain Wall Spin Structures in 3d Metal Ferromagnetic Nanostructures -- Six Emerging Directions in Sculptured-Thin-Film Research -- Ion Beam Assisted Growth of Sculptured Thin Films: Structure Alignment and Optical Fingerprints -- Organic Thin Film Devices for Displays and Lighting

Lengua: English

ISBN: 3-540-38235-6

Autores: Haug, Rolf., editor. ed. <http://id.loc.gov/vocabulary/relators/edt>

Entidades: European Physical Society. General Conference 21st :. 2006 :. Dresden, Germany)

Enlace a serie principal: Advances in Solid State Physics (CKB)111021564088000 1617-5034

Enlace a formato físico adicional: 3-540-38234-8

Punto acceso adicional serie-Título: Advances in Solid State Physics 1438-4329 46

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