

## Advances in Solid State Physics 47 [

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Monografía

The present volume 47 of the Advances in Solid State Physics contains the written version of a large number of the invited talks of the 2007 Spring Meeting of the Arbeitskreis Festkörperphysik which was held in Regensburg, Germany, from March 26 to 30, 2007 in conjunction with the 71st Annual Meeting of the Deutsche Physikalische Gesellschaft. It gives an overview of the present status of solid state physics where low-dimensional systems such as quantum dots and quantum wires are dominating. The importance of magnetic materials is reflected by the large number of contributions in the part dealing with ferromagnetic films and particles. One of the most exciting achievements of the last couple of years is the successful application of electrical contacts to and the investigation of single layers of graphene. This exciting physics is covered in Part IV of this book. Terahertz physics is another rapidly moving field which is presented here by five contributions. Achievements in solid state physics are only rarely possible without a thorough knowledge of material physics which is covered by the last two parts of this book

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Contenido: Quantum Dots and Wires -- Emission Characteristics, Photon Statistics and Coherence Properties of high-? Semiconductor Micropillar Lasers -- Optical Microtube Ring Cavities -- Wide-Bandgap Quantum Dot Based Microcavity VCSEL Structures -- Momentum Space Wave Functions in InAs Quantum Dots Mapped by Capacitance Voltage Spectroscopy -- Coupling Phenomena in Dual Electron Waveguide Structures -- Correlation Effects -- Electronic Correlations in Electron Transfer Systems -- Criticality and Correlations in Cold Atomic Gases -- Ferromagnetic Films and Particles -- Magnetic Anisotropy and Magnetization Switching in Ferromagnetic GaMnAs -- Highly Spin-Polarized Tunneling in Fully Epitaxial Magnetic Tunnel Junctions with a Co-Based Full-

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Nanoparticles from First Principles -- First-Principles Study of Ferromagnetic Heusler Alloys: An Overview -Graphene -- Dirac Particles in Epitaxial Graphene Films Grown on SiC -- Photoemission Studies of Graphene on
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Nucleation and Multiplication Examined with a NI-AFM -- Tuning the Strain in LaCoO3 Thin Films by the
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Superstructure Stability -- Material Science with Positrons: From Doppler Spectroscopy to Failure Prediction -- XRay Diffraction Residual Stress Analysis: One of the Few Advanced Physical Measuring Techniques That Have
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Characterization -- Materials -- 59Co, 23Na, and 1H NMR Studies of Double-Layer Hydrated Superconductors
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