



CONDENSED MATTER PHYSICS IN THE PRIME OF THE 21ST CENTURY: Phenomena, Materials

Janusz Jedrzejewski

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This is a collection of lectures by 11 active researchers, renowned specialists in a number of modern, promising, dynamically-developing research directions in condensed matter/solid state theory. The lectures are concerned with phenomena, materials and ideas, discussing theoretical and experimental features, as well as with methods of calculation.

Readers will find up-to-date presentations of the methods of carrying out efficient calculations for electronic systems and quantum spin systems, together with applications to describe phenomena and to design new materials. These applications include systems of quantum dots, quantum gates, semiconductor materials for spintronics, and the unusual characteristics of warm dense matter.

Contents: Dynamical Mean-Field Theory for Correlated Lattice Fermions (K Byczuk); Jordan Wigner Fermionization and the Theory of Low-Dimensional Quantum Spin Models. Dynamic Properties (O Derzhko); Quantum Computing with Electrical Circuits: Hamiltonian Construction for Basic Qubit-Resonator Models (M R Geller); Coherent Control and Decoherence of Charge States in Quantum Dots (P Machnikowski); Basics of Spintronics: From Metallic to All-Semiconductor Magnetic Tunnel Junctions (J A Majewski); Physics of Carbon Nanostructures (V A Osipov); Quantum Molecular Dynamics Simulations for Warm Dense Matter and Applications in Astrophysics (R Redmer et al.); Correlated Systems on Geometrically Frustrated Lattices: From Magnons to Electrons (J Richter & O Derzhko); Full-Potential Local-Orbital Approach to the Electronic Structure of Solids and Molecules (M Richter et al.); Theory of Dynamical Thermal Transport Coefficients in Correlated Condensed Matter (B S Shastry); Carrier Concentration Induced Ferromagnetism in Semiconductors (T Story).

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