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Nota di contenuto	Trends in Magnetism: Nanomagnetism (EASTMAG-2013); Preface and Committees; Table of Contents; Chapter 1: Fundamental Problems of Magnetism; Phase Transitions in the Antiferromagnetic Heisenberg Model on a Triangular Lattice with the Next-Nearest Neighbor Interactions; Magnetic Response of Pr _{1-x} LaCexCuO ₄ in Comparison with Hole-Doped Cuprates; Ising Antiferromagnet with Nearest-Neighbor and Next-Nearest-Neighbor Interactions on a Square Lattice; Fundamental Limitations of Half-Metallicity in Spintronic Materials Electronic Structure and Magnetic Properties of Iron Doped TiO ₂ (Rutile): XPS Measurements and CPA Calculations Statistical and Multifractal Properties of Barkhausen Jumps in Exchange-Coupled Antiferromagnetic/Ferromagnetic Bilayers; Modulated Nanomagnetism; Electronic Structure of Nonstoichiometric LaMnO _{3-x} Calculated in the Coherent Potential Approximation; The Investigation of Phase Transitions in Two-Dimensional 3-State Antiferromagnetic Potts Model on a Triangular Lattice with Interaction of Next Nearest Neighbors; Partially Disordered State in the Frustrated Heisenberg Ferrimagnet

Incommensurate Magnetic Structures in the Rhombohedrally Distorted Cubic Lattice Peculiarities of the Magnetocaloric Effect in an Isotropic Antiferromagnet; Phase Transitions between Magnetic Incommensurate States of Terbium Manganite in Magnetic Field; Upper Critical Field in Electron-Doped Superconductor with Nonstoichiometric Disorder near Antiferromagnetic-Superconducting Phase Boundary; Effect of Cobalt Deficiency on Physical Properties of the $\text{GdBaCo}_{2-x}\text{O}_{5+}$ Single Crystal; The Effect of Mechanical Stresses on the Coercive Force of the System of Two-Phase Interacting Nanoparticles Quantum Theory of Magnetoelectric Properties of Rare-Earth Alumoborates: Holmium Alumoborate Percolation Effects in Composites Superconductor - Ferromagnetic Half-Metal; Magnetoelastic Resonance in Media with the Inhomogeneous Coupling Parameter; Hyperfine Interactions on Magnetic Ions Nuclei in Titanates; Thermodynamic and Relaxation Processes near Curie Point in Gadolinium; Phase Transitions in Magnets with Competing Exchange Interactions; Magnetic Phase Diagrams of $\text{Tm}_2\text{Fe}_{19-x}\text{Mn}_x$ and $\text{Tm}_2\text{Fe}_{17+}$ Systems; Spin Glass State in Iron-Doped $\text{Bi}_2\text{Fe}_{0.128}\text{Te}_{2.844}\text{Se}_{0.145}$ Topological Insulator First Principles Calculations of Magnetic Exchange Parameters of Fe-Mn-Al Heusler Alloys Chapter 2: Magnetic Films, Nanostructures and Nanoparticles; Crystal Structure and Coercivity of Electrodeposited Nickel Films; Solid-State Reactions in Fe/Si Multilayer Nanofilms; Coercivity of Amorphous - Single-Layer and Trilayer Films Fabricated by Chemical Deposition; Uniaxial Magnetic Anisotropy of Bismuth-Doped Ferrite-Garnet Films, Induced by Weak Adsorption; Magnetic and Structural Properties of Nanocomposite $\text{ZnO-Fe}_3\text{O}_4$ Films Prepared by Solid-State Synthesis Magnetorefractive Effect in Doped $\text{La}_{1-x}\text{K}_x\text{MnO}_3$ Thin Films

Sommario/riassunto

Collection of selected, peer reviewed papers from the V Euro-Asian Symposium "Trends in Magnetism": Nanomagnetism (EASTMAG-2013), September 15-21, 2013, Vladivostok, Russia. The 95 papers are grouped as follows: Chapter 1: Fundamental Problems of Magnetism, Chapter 2: Magnetic Films, Nanostructures and Nanoparticles, Chapter 3: Magnetoelectronic and Magnetoresistive Materials, Spin Polarized Transport, Chapter 4: Spin-Wave Dynamics, Chapter 5: Domain Structure and Walls, Chapter 6: Advanced Experimental Techniques, Chapter 7: Magnetic Memories, Sensors, Devices and Materials The 95 papers cov