

# Handbook Of Advanced Magnetic Materials

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V. 1 -Intrinsic and extrinsic properties of Advanced Magnetic Materials Magnetism in Ultrathin Films and Beyond Classical and Quantum Magnetization Reversal Studied in Nanometer-sized Particles and Clusters Micromagnetic Simulation of Dynamic and Thermal Effects Magnetic Relaxation and Quantum Tunneling of Magnetization Nanostructured Exchange-coupled Magnets High-field Investigations on Exchange Coupling in R-Fe Intermetallics and Hard/soft Nanocomposite Magnets Fabrication and Magnetic Properties of Nanometer-scale Particle Arrays Processing and Modeling of Novel Nanocrystalline Soft Magnetic Materials - V.2 Characterization of Magnetic Materials by Means of Neutron Scattering Lorentz Microscopy and Holography Characterization of Magnetic Materials Equilibrium and Non-Equilibrium Thermodynamics: Langevine Dynamics, Monte Carlo Method of Path Integrals Advanced Magnetic Force Microscopy Tips for Imaging Domains Mossbauer Spectroscopy Characterization of Soft Magnetic Nanocrystalline Alloys Atom Probe Characterization of Microstructures of Nanocrystalline and Nanocomposite Magnetic Materials Itinerant-electron Metamagnetism Modeling of Hysteresis in Magnetic Materials Coarse-graining and Hierarchical Simulation of Magnetic Materials: the Fast Multipole Method Numerical Simulation of Quasistatic and Dynamic Remagnetization Processes with Special Applications to Thin Films and Nanoparticles Preisach Model and Simulation of Relaxation Kinetics Antiferromagnetism of Mn Alloys Antiferromagnetism Properties Related to Magnetic Devices Concluding Remarks- V 3 HDDR Process for the Production of High Performance Rare-Earth Magnets Process and Magnetic Properties of Rare-Earth Bonded Magnets Laser Processing of Magnetic Materials Processing and Properties of Nanocomposite Nd<sub>2</sub>Fe<sub>14</sub>B-based Permanent Magnets Amorphous and Nanocrystalline Soft Magnetic Properties, Magnetoelastic and Transport Properties Nanogranular Layered Magnetic Films Monodisperse Ferromagnetic Metal Particles: Synthesis by Chemical Routes, Size Control and Magnetic Characterizations Monocrystalline Half-metallic NiMnSb Thin Films: Preparation and Characterization Bulk Amorphous Magnetic Materials- V 4 Recent Developments in High-Temperature Permanent Magnet Materials New Rare-Earth Transition-Metal Intermetallic Compounds and Metastable Phases for Permanent Magnetic Materials Magnetic Properties and

Interstitial Atom Effects in the R (Fe,M)<sub>12</sub> Compounds Nanocrystalline Soft Magnetic and Its Applications  
Spin-Density Waves and Charge-Density Waves in Cr Alloys New Magnetic Recording Media  
Magneto-Optical Properties of Nanostructured Media Magnetoresistive Recording Heads Magnetic  
Random Access Memories for Computer Data Storage Magnetoresistive Thin Film Materials and Their  
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