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	Soggetti	Magnetism Magnetic materials Metals Materials science Nanotechnology Electronics Microelectronics Magnetism, Magnetic Materials Metallic Materials Characterization and Evaluation of Materials Electronics and Microelectronics, Instrumentation
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	Nota di contenuto	Ground-State Properties On the Way to a Gutzwiller Density Functional Theory Anisotropy in Magnetism Anisotropic Magnetic Ground-State Moments Probed by Soft X-Ray Spectroscopy First Principles Determination of Magnetic Anisotropy and Magnetostriction in Transition Metal Alloys Finite-Temperature Electronic Structure Magnetism of Correlated Systems: Beyond LDA Probing the Electronic States of Band Ferromagnets with Photoemission Temperature Dependence of Spin- and Angle-Resolved Photoemission of Ni Spin Fluctuations in Itinerant Electron Systems Itinerant Electron Magnets: Curie Temperature and Susceptibility in Density- Functional Theory Band Magnetism near a Quantum Critical Point

	Non-equilibrium Physics of Magnetic Solids: Time Dependent Changes of Magnetism Models of Band-Ferromagnetism Metallic Ferromagnetism — An Electronic Correlation Phenomenon Ferromagnetism in the Hubbard Model Orbital Order Versus Orbital Liquid in Doped Manganites Low-Dimensional Systems First Principles Theory of Magnetism for Materials with Reduced Dimensionality Surface Electronic Structure of Band Ferromagnetis Phase Transitions in Coupled Two-Dimensional Ferromagnetic Layers Theory of Spin Excitations and the Microwave Response of Cylindrical Ferromagnetic Nanowires Transmission of Electron Beams Through Thin Magnetic Films Understanding Spectroscopies New Developments in UPS and XPS from Ferromagnetic Materials Theory of Electron Spectroscopies Magnetic Dichroism in Electron Spectroscopy Neutrons as a Probe of the Magnetic Moment Stability in Itinerant Electron Ferromagnets.
Sommario/riassunto	Written by leading experts in the field of band-ferromagnetism, this book is intended to give a status report on our understanding of this complicated and fascinating problem of solid state physics. Modern developments are presented and explained in a tutorial style emphasizing the decisive ideas and the hot topics of current and future research on band-ferromagnetism. The authors include experimentalists and theoreticians working on different aspects of magnetism and employing a variety of techniques. In particular, they treat the following five central themes: Ground-State Properties, Finite- Temperature Electronic Structure, Models of Band-Ferromagnetism, Low-Dimensional Systems, Understanding Spectroscopies. The book will be of benefit to students and researchers alike.