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Nota di contenuto	to Magnetism -- X-ray and Electron Spectroscopies: An Introduction -- Synchrotron Radiation -- X-ray Magnetic Circular Dichroism: Historical Perspective and Recent Highlights -- Spin-Polarized Photoemission -- Band-Structure Theory of Dichroism -- Hitchhiker's Guide to Multiplet Calculations -- Resonant X-ray Scattering: A Theoretical Introduction -- High Angle Magnetic X-ray Diffraction -- Magnetic Imaging -- Dynamic Aspects of Magnetism -- Molecular Magnetism -- Magnetism under Pressure with Synchrotron Radiation -- X-ray Spectroscopy and Magnetism in Mineralogy -- Materials for Spintronics.
Sommario/riassunto	This volume contains the edited lectures of the fourth Mittelwihr school on "Magnetism and Synchrotron Radiation". This series of events introduces graduate students and nonspecialists from related disciplines to the field of magnetism and magnetic materials with emphasis on synchrotron radiation as an experimental tool of investigation. These lecture notes present in particular the state of the art regarding the analysis of magnetic properties of new materials.