Record Nr.	UNISA996466798703316
Titolo	Magnetism and Synchrotron Radiation [[electronic resource] /] / edited by E. Beaurepaire, F. Scheurer, G. Krill, JP. Kappler
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
ISBN	3-540-44954-X
Edizione	[1st ed. 2001.]
Descrizione fisica	1 online resource (XIV, 388 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 565
Disciplina	538
Soggetti	Magnetism Magnetic materials Solid state physics Spectroscopy Microscopy Particle acceleration Magnetism, Magnetic Materials Solid State Physics Spectroscopy and Microscopy Particle Acceleration and Detection, Beam Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Lectures to Magnetism and Magnetic Materials Spectroscopy and Magnetism: An Introduction Instrumentation Developments for Polarization Dependent X-ray Spectroscopies Dichroism in X-ray Absorption A Photoemission Primer Micromagnetics: Dynamical Aspects Magnetization Reversal of Nano-particles Molecular

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	Cases Relation Between X-ray Magnetic Linear Dichroism and Magnetocrystalline Anisotropy Field Induced Magnetic Circular Dichroism in Paramagnetic Solids X-ray Magnetic Circular Dichroism in the Investigation of Magnetisation Dynamics in the Nanosecond Time Scale Magnetism in Nanoscale Fe Clusters Studied by Dichroism in X-ray Absorption and Photoemission X-ray Spectromicroscopy and Applications to Magnetic Materials Magnetic Ordering and Resonance Process in Sm Epitaxial Films and Superlattices: An RXMS Study X-ray Gyrotropy Related Spectroscopies: Natural Circular Dichroism and Non-reciprocal Linear Dichroism Synchrotron-Based Mössbauer Spectroscopy at Iron Islands and Clusters on Tungsten (110).
Sommario/riassunto	The aim of this book is to provide both an introduction and a state-of- the-art report on research into magnetism and magnetic materials. Particular emphasis has been put on the contribution of synchrotron radiation in relevant experimental investigations. Graduate students and nonspecialists will benefit from the tutorial approach while specialists will find the latest results that round off the material presented in the lectures.