

Magneto-Optics and Spectroscopy of Antiferromagnets

Eremenko, V. V.

Magneto Optics And Spectroscopy Of Antiferromagnets

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Magneto Optics And Spectroscopy Of Antiferromagnets:

Magneto-Optics and Spectroscopy of Antiferromagnets V.V. Eremenko,N.F. Kharchenko,Yu.G. Litvinenko,V.M. Naumenko,2012-12-06 Certain magnetic materials have optical properties that make them attractive for a wide variety of applications such as optical switches This book describes the physics of one class of such magneto optic materials the insulating antiferromagnets The authors summarize recent results concerning the structure optical properties spectroscopy and magneto optical properties of these materials In particular they consider magnetic phase transitions symmetry effects the linear magneto optical effect magnons spectroscopic study of spin waves photoinduced magnetic effects and the effects of impurities

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Magneto-optics and Spectroscopy of Antiferromagnets Viktor Valentinovich Eremenko,1992 **Smart Materials for Ranging Systems** J. J. M. Franse,Jaap Franse,Victor Eremenko,Valentyna Sirenko,2006-04-21 This book considers the different aspects of materials with specific magnetic electric and elastic properties They are considered in view of potential application in the design and manufacturing of smart materials Modern smart materials play a key role at investigations in interdisciplinary materials sciences and are serving to forge new links between basic and applied research Progress is reported in the fabrication and understanding of in situ formation and characterization of solid state structures with specified properties

Photonic Devices Jia-ming Liu,2009-06-11 Photonic devices lie at the heart of the communications revolution and have become a large and important part of the electronic engineering field so much so that many colleges now treat this as a subject in its own right With this in mind the author has put together a unique textbook covering every major photonic device and striking a careful balance between theoretical and practical concepts The book assumes a basic knowledge of optics semiconductors and electromagnetic waves Many of the key background concepts are reviewed in the first chapter Devices covered include optical fibers couplers electro optic devices magneto optic devices lasers and photodetectors Problems are included at the end of each chapter and a solutions set is available The book is ideal for senior undergraduate and graduate courses but being device driven it is also an excellent engineers reference

Spintronics Puja Dey,Jitendra Nath Roy,2021-04-13 This book highlights the overview of Spintronics including What is Spintronics Why Do We Need Spintronics Comparative merit demerit of Spintronics and Electronics Research Efforts put on Spintronics Quantum Mechanics of Spin Dynamics of magnetic moments Landau Lifshitz Gilbert Equation Spin Dependent

Band Gap in Ferromagnetic Materials Functionality of Spin in Spintronics Different Branches of Spintronics etc Some important notions on basic elements of Spintronics are discussed here such as Spin Polarization Spin Filter Effect Spin Generation and Injection Spin Accumulation Different kinds of Spin Relaxation Phenomena Spin Valve Spin Extraction Spin Hall Effect Spin Seebeck Effect Spin Current Measurement Mechanism Magnetoresistance and its different kinds etc Concept of Giant Magnetoresistance GMR different types of GMR qualitative and quantitative explanation of GMR employing Resistor Network Theory are presented here Tunnelling Magnetoresistance TMR Magnetic Junctions Effect of various parameters on TMR Measurement of spin relaxation length and time in the spacer layer are covered here This book highlights the concept of Spin Transfer Torque STT STT in Ferromagnetic Layer Structures STT driven Magnetization Dynamics STT in Magnetic Multilayer Nanopillar etc This book also sheds light on Magnetic Domain Wall MDW Motion Ratchet Effect in MDW motion MDW motion velocity measurements Current driven MDW motion etc The book deals with the emerging field of spintronics i e Opto spintronics Special emphasis is given on ultrafast optical controlling of magnetic states of antiferromagnet Spin photon interaction Faraday Effect Inverse Faraday Effect and outline of different all optical spintronic switching One more promising branch i e Terahertz Spintronics is also covered Principle of operation of spintronic terahertz emitter choice of materials terahertz writing of an antiferromagnetic magnetic memory device is discussed Brief introduction of Semiconductor spintronics is presented that includes dilute magnetic semiconductor ferromagnetic semiconductor spin polarized semiconductor devices three terminal spintronic devices Spin transistor Spin LED and Spin Laser This book also emphasizes on several modern spintronics devices that includes GMR Read Head of Modern Hard Disk Drive MRAM Position Sensor Biosensor Magnetic Field sensor Three Terminal Magnetic Memory Devices Spin FET Race Track Memory and Quantum Computing Multiferroics Andres Cano,Dennis Meier,Morgan Trassin,2021-06-21

Multiferroics materials with a coexistence of magnetic and ferroelectric order provide an efficient route for the control of magnetism by electric fields The authors cover multiferroic thin film heterostructures device architectures and domain interface effects They critically discuss achievements as well as limitations and assess opportunities for future applications

Coherent Terahertz Control and Ultrafast Spectroscopy of Layered Antiferromagnets Batyr Ilyas,2025-10-21 This thesis presents new insights into the strong interactions among electronic lattice spin and orbital degrees of freedom in layered magnetic materials as well as their emergent properties Using a suite of spectroscopic techniques both in equilibrium and out of equilibrium settings several important findings have been made In a family of transition metal thiophosphates a novel bound state resulting from electronic transitions between d orbitals and Raman active phonons was observed in NiPS₃ using femtosecond transient absorption spectroscopy Furthermore this phonon symmetry was employed to identify a new magnetostrictive effect in FePS₃ through coherent phonon spectroscopy These and other observations point to strong interactions between spin and lattice degrees of freedom in this system This coupling has been harnessed to actively control

the magnetic structure Specifically intense tailored terahertz pulses were used to displace the lattice along particular phonon directions inducing a new magnetic order characterized by net magnetization This effect is notably more efficient and exhibits an increasingly longer lifetime near the phase transition point highlighting the key role played by critical fluctuations Finally second harmonic generation linear dichroism and Raman spectroscopy were employed to discover a new type II multiferroic phase that persists down to the atomic monolayer limit in NiI_2

Magnetoelectric Interaction Phenomena in Crystals Manfred Fiebig, Victor V. Eremenko, Irina E. Chupis, 2013-11-09 In the quest for higher data density in information technology manipulation of magnetization by other means than magnetic fields has become an important challenge This lead to a startling revival of the magnetoelectric effect which characterizes induction of a polarization by a magnetic field or of a magnetization by an electric field The magnetoelectric crosslink of material properties opens just those degrees of freedom which are needed for the mutual control of magnetic and electric states The book gives a state of the art review on magnetoelectrics research classifies current research tendencies and points out possible future trends Novel compounds and growth techniques and new theoretical concepts for the understanding of magnetoelectric coupling phenomena are introduced Highlights are the discovery of gigantic magnetoelectric effects which are strong enough to trigger electric or magnetic phase transitions the concept of magnetochirality and development structural magnetoelectric effects in artificial multiphase compounds The book is addressed to condensed matter physicists with a particular focus on experts in highly correlated systems

Advances in Magneto-optics K. Tsushima, K. Shinagawa, 1987

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