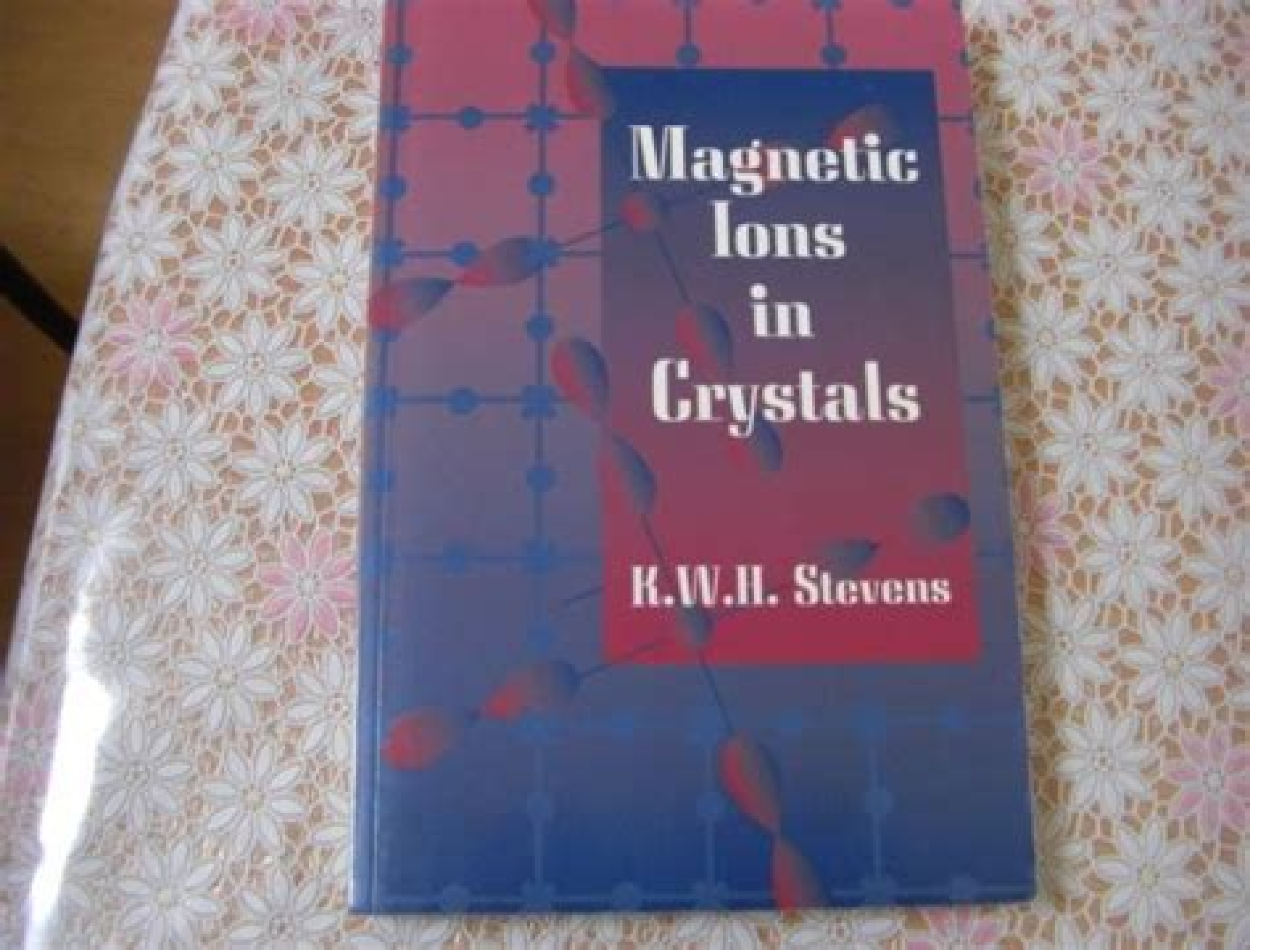




Magnetic Ions in Crystals

R.W.H. Stevens

Magnetic Ions In Crystals

Gottfried Landwehr, Wolfgang Ossau



Magnetic Ions In Crystals:

Magnetic Ions in Crystals K. W. Stevens, 2014-07-14 There have been many demonstrations particularly for magnetic impurity ions in crystals that spin Hamiltonians are able to account for a wide range of experimental results in terms of much smaller numbers of parameters Yet they were originally derived from crystal field theory which contains a logical flaw electrons on the magnetic ions are distinguished from those on the ligands Thus there is a challenge to replace crystal field theory with one of equal or greater predictive power that is based on a surer footing The theory developed in this book begins with a generic Hamiltonian one that is common to most molecular and solid state problems and that does not violate the symmetry requirements imposed on electrons and nuclei Using a version of degenerate perturbation theory due to Bloch and the introduction of Wannier functions projection operators and unitary transformations Stevens shows that it is possible to replace crystal field theory as a basis for the spin Hamiltonians of single magnetic ions and pairs and lattices of magnetic ions even when the nuclei have vibrational motion The power of the method is further demonstrated by showing that it can be extended to include lattice vibration and conduction by electron hopping such as probably occurs in high T_c superconductors Thus Stevens shows how an apparently successful ad hoc method of the past can be replaced by a much more soundly based one that not only incorporates all the previous successes but appears to open the way to extensions far outside the scope of the previously available methods So far only some of these have been explored The book should therefore be of great interest to all physicists and chemists concerned with understanding the special properties of molecules and solids that are imposed by the presence of magnetic ions Originally published in 1997 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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Electron Paramagnetic Resonance John Wilfred Orton, 1969 *Physics of Semiconductors in High Magnetic Fields* Noboru Miura, 2008 This book summarizes most of the fundamental physical phenomena which semiconductors and their modulated structures exhibit in high magnetic fields Readers can learn not only the basic theoretical background but also the present state of the art from the most advanced data in this rapidly growing research area

THEORY OF MAGNETISM. Kei Yosida, 1996-06-04 Translated from the Japanese this title is the first modern book on magnetism a topic of increasing importance The book provides the foundation for further development in this field covering magnetic ions in crystals and magnetism of spin systems metals and dilute alloys

Magnetoelectric Interaction Phenomena in Crystals Manfred Fiebig, Victor V. Eremenko, Irina E. Chupis, 2004-10-21 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

Spectroscopy of Crystals Containing Rare Earth Ions A.A. Kaplyanskii, R.M. McFarlane, 2012-12-02 Spectroscopy of Crystals Containing Rare Earth Ions contains chapters on some key problems

selected from a broad range of spectroscopic studies of RE activated solids including both crystalline and glassy materials Progress in crystal field theory is surveyed an area which is basic to our understanding of the energy levels The treatment of dynamical properties includes studies of coherence phenomena in isolated ions energy transfer between ions and cooperative phenomena associated with ion ion and ion lattice interactions In addition the role of electron spins and nuclear spins is studied by light scattering and double resonance techniques The presence of inhomogeneous broadening of spectral lines is observed and studied in many contexts leading to new insights into general problems of the disordered state Considerable attention is devoted to describing new experimental techniques whose development is of prime importance for progress in the spectroscopy of RE activated solids Many of these rely on the development and application of tunable lasers At the moment this is a very active field of spectroscopy with more exciting developments likely to occur in the future

Proceedings of the Fifth International Symposium on Quantum Confinement, Nanostructures M. Cahay,1999

High Magnetic Fields In The Physics Of Semiconductors - Proceedings Of The 12th International Conference (In 2 Volumes) Gottfried Landwehr,Wolfgang Ossau,1997-04-23 This volume contains contributions presented at the 12th International Conference on High Magnetic Fields in Semiconductor Physics In order to give an overview 37 lecturers not only reviewed the latest results in their field but also gave a general introduction The rapid development of semiconductor physics and technology during the last few years has resulted in an extensive application of high magnetic fields in both fundamental and applied research more than 160 contributed papers were presented as posters Sixteen years after its discovery the quantum Hall effect QHE is still a subject of high activity Many new results on the fractional QHE were presented in addition to 6 invited papers there were 43 contributions Another field of high activity is magneto optics and 49 posters were presented Magnetotransport also turned out to be of high interest and magnetic semiconductors played a prominent role at the conference too Without doubt the availability of superconducting magnets in most laboratories contributed to the growth of semiconductor physics in high magnetic fields Because not all experiments can be performed in fields up to 10 or 15 teslas high magnetic field laboratories offering larger fields are indispensable There were reports from four laboratories on present work going on at these installations

Crystal Symmetry, Lattice Vibrations, And Optical Spectroscopy Of Solids: A Group Theoretical Approach Baldassare Di Bartolo,Richard C Powell,2014-05-21 This book provides a comprehensive treatment of the two fundamental aspects of a solid that determine its physical properties lattice structure and atomic vibrations phonons The elements of group theory are extensively developed and used as a tool to show how the symmetry of a solid and the vibrations of the atoms in the solid lead to the physical properties of the material The uses of different types of spectroscopy techniques that elucidate the lattice structure of a solid and the normal vibrational modes of the atoms in the solid are described The interaction of light with solids optical spectroscopy is described in detail including how lattice symmetry and phonons affect the spectral properties and how spectral properties provide information

about the material's symmetry and normal modes of lattice vibrations. The effects of point defects, doping on the lattice symmetry and atomic vibrations, and thus the spectral properties, are discussed and used to show how material symmetry and lattice vibrations are critical in determining the properties of solid state lasers.

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