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**Solid-State Spectroscopy** Hans Kuzmany, 2013-03-09 Spectroscopic methods have opened up a new horizon in our knowledge of solid state materials Numerous techniques using electromagnetic radiation or charged and neutral particles have been invented and worked out to a high level in order to provide more detailed information on the solids In this text new radiation sources like lasers and synchrotrons are discussed It provides a description of the linear response together with the basic principles and the technical background for various scattering experiments Fourier transform spectroscopy pulsed and magnetic NMR techniques photo emission and light and electron scattering are elucidated Each chapter includes problems The concept of this textbook is designed for graduate students Neutron Physics ,2006-04-11 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1976 Pion-Electroproduction Edoardo Amaldi, Sergio Fubini, Giuseppe Furlan, 2006-04-11 **Electronic Structure of Noble Metals and Polariton-Mediated Light** Scattering B. Bendow, 2006-04-11 Resonance Effects of Excitons and Electrons Ion Geru, Dieter Suter, 2013-06-01 This book presents the various types of resonance effects on excitons biexcitons and the local electronic centers LEC in solids such as paramagnetic and paraelectric resonances on excitons exciton acoustic resonance at intra and interband transitions radio optical double resonance on excitons hole nuclear double resonance on localized biexcitons ENDOR and acoustic ENDOR on LEC The criteria for the generation of coherent photons phonons and magnons by excitons are explained The interactions of excitons and biexcitons with paramagnetic centers and nuclear spins the indirect interaction between the PC through a field of excitons as well as the guasienergy spectrum of excitons and spin systems are discussed It is proved that the interaction of paramagnetic centers with excitons increases the spin relaxation rate of paramagnetic centers in comparison with the case of their interaction with free carriers The giant magneto optical effects in semi magnetic semiconductors are theoretically interpreted In recent years a new perspective has been added to these systems and their interactions They can be used for storing and processing information in the form of quantum bits qubits the building blocks of quantum computers The basics of this emerging technology are explained and examples of demonstration type quantum computers based on localized spins in solids are discussed Collective Ion Acceleration ,2006-04-11 Nuclear Magnetic Resonance Volume 4 R. K. Harris, 1972 Annotation As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title

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