



Neutron Scattering in Condensed Matter Physics (Neutron Techniques and Applications) (Series on Neutron Techniques and Applications)

Albert Furrer

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Neutron scattering has become a key technique for investigating the properties of materials on an atomic scale. The uniqueness of this method is based on the fact that the wavelength and energy of thermal neutrons ideally match interatomic distances and excitation energies in condensed matter, and thus neutron scattering is able to directly examine the static and dynamic properties of the material. In addition, neutrons carry a magnetic moment, which makes them a unique probe for detecting magnetic phenomena. In this important book, an introduction to the basic principles and instrumental aspects of neutron scattering is provided, and the most important phenomena and materials properties in condensed matter physics are described and exemplified by typical neutron scattering experiments, with emphasis on explaining how the relevant information can be extracted from the measurements.

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