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This comprehensive, handbook-style survey of diffusion in condensed matter gives detailed insight into diffusion as the process of particle transport due to stochastic movement. It is understood and presented as a phenomenon of crucial relevance for a large variety of processes and materials. In this book, all aspects of the theoretical fundamentals, experimental techniques, highlights of current developments and results for solids, liquids and interfaces are presented.

This book describes the central aspects of diffusion in solids, and goes on to provide easy access to important information about diffusion in metals, alloys, semiconductors, ion-conducting materials, glasses and nanomaterials. Coverage includes diffusion-controlled phenomena including ionic conduction, grain-boundary and dislocation pipe diffusion. This book will benefit graduate students in such disciplines as solid-state physics, physical metallurgy, materials science, and geophysics, as well as scientists in academic and industrial research laboratories.

The investigation of the properties of condensed matter using experimental nuclear methods is becoming increasingly important. An extremely broad range of techniques is used, including the use of particles, such as positrons and neutrons, ion beams, and the detection of radiation from nuclear decays or nuclear reactions. Nuclear Condensed Matter Physics: Nuclear Methods and Applications is the only book to provide a comprehensive coverage of the nuclear methods used to study the properties of condensed matter. It covers all the key techniques, including the Mossbauer effect, perturbed angular correlation, muon spin rotation, neutron scattering, positron annihilation, nuclear magnetic resonance and ion beam analysis. Numerous examples are given throughout the text to illustrate how each of the experimental methods is used in modern condensed matter physics, and practical details concerning instrumentation are included to help the reader apply each method. Nuclear Condensed Matter Physics: Nuclear Methods and Applications is an invaluable textbook for graduate students of condensed matter physics and chemistry, and is of great interest to those studying materials science and applied nuclear physics. It is also a key reference source for more experienced researchers in these and related fields, including nuclear and condensed matter physicists and solid state and inorganic chemists.

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.

This book provides a concise introduction to the newly created sub-discipline of solid state physics isotopetronics. The role of isotopes in materials and their properties are describe in this book. The problem of the enigma of the atomic mass in microphysics is briefly discussed. The range of the applications of isotopes is wide: from biochemical process in living organisms to modern technical applications in quantum information. Isotopetronics promises to improve nanoelectronic and optoelectronic devices. With numerous illustrations this book is useful to researchers, engineers and graduate students.

The discovery of a duality between Anti-de Sitter spaces (AdS) and Conformal Field Theories (CFT) has led to major advances in our understanding of quantum field theory and quantum gravity. String theory methods and AdS/CFT correspondence maps provide new ways to think about difficult condensed matter problems. String theory methods based on the AdS/CFT correspondence allow us to transform problems so they have weak interactions and can be solved more easily. They can also help map problems to different descriptions, for instance mapping the description of a fluid using the Navier–Stokes equations to the description of an event horizon of a black hole using Einstein's equations. This textbook covers the applications of string theory methods and the mathematics of AdS/CFT to areas of condensed matter physics. Bridging the gap between string theory and condensed matter, this is a valuable textbook for students and researchers in both fields.

This practical book provides recipes for the construction of devices used in low temperature experimentation. It emphasizes what works, rather than what might be the optimum method, and lists current sources for purchasing components and equipment.

This book reports on the successful implementation of an innovative, miniaturized galvanic cell that offers unprecedented control over and access to ionic transport. It represents a milestone in fundamental studies on the diffusive transport of lithium ions between two atomically thin layers of carbon (graphene), a highly relevant aspect in electrodes for energy and mass storage in the context of batteries. Further, it is a beautiful example of how interdisciplinary work that combines expertise from two very distinct fields can significantly advance science. Machinery and tools common in the study of low-dimensional systems in condensed matter physics are combined with methods routinely employed in electrochemistry to enable truly unique and powerful experiments. The method developed here can easily be generalized and extended to other layered materials as well as other ionic species. Not only the method but also the outcome of its application to Li diffusion and intercalation in bilayer graphene is remarkable. A record chemical diffusion coefficient is demonstrated, exceeding even the diffusion of sodium chloride in water and surpassing any reported value of ion diffusion in single-phase mixed conducting materials. This finding may be indicative of the exceptional properties yet to be discovered in nanoscale derivatives of bulk insertion compounds.