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Inelastic neutron scattering (INS) is a spectroscopic technique in which neutrons are used to probe the dynamics of atoms and molecules in solids and liquids. This book is the first, since the late 1960s, to cover the principles and applications of INS as a vibrational-spectroscopic technique. It provides a hands-on account of the use of INS, concentrating on how neutron vibrational spectroscopy can be employed to obtain chemical information on a range of materials that are of interest to chemists, biologists, materials scientists, surface scientists and catalyst researchers. This is an accessible and comprehensive single-volume primary text and reference source.

Contents:

The Theory of Inelastic Neutron Scattering Spectroscopy

Instrumentation and Experimental Methods

Interpretation and Analysis of Spectra Using Molecular Modelling

Analysis of INS Spectra

Dihydrogen and Hydrides

Surface Chemistry and Catalysis

Organic and Organometallic Compounds

Hydrogen Bonding

Soft Condensed Matter _ Polymers and Biomaterials

Non-Hydrogenous Materials and Carbon

Vibrational Spectroscopy with Neutrons _ The Future