



The Guide of the Perplexed of Maimonides Volume 1

By United States. Interagency Working

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 72 pages. Original publisher: Washington, D. C. : Executive Office of the President, 2002 OCLC Number: (OCoLC)50903825 Subject: Neutrons -- Polarization. Excerpt: . . . Sensitivity to specific isotopes and the ability to differentiate isotopically labeled molecules;Sensitivity to hydrogen;Sensitivity to low energy vibrations and excitations in materials. Neutron scattering instruments can be separated into several classes: Neutron diffraction instruments measure atomic and molecular structure: i. e. the relative positions of atoms and molecules in a material. There are typically several neutron diffractometers at a given facility, each optimized to make a specific kind of measurement. Examples include single crystal diffractometers, powder diffractometers, liquids amorphous materials diffractometers and texture or residual stress diffractometers. Low-Q diffraction is a subset of neutron diffraction that is designed to measure the structures of very large molecules, or macromolecules . Two examples are small angle neutron scattering (SANS) and neutron reflectivity. Due to the tremendous growth of research in large molecule systems such as polymers, natural and man-made composites (and other multi-phase systems) and biological systems, neutron instrumentation in this class has become heavily oversubscribed, particularly at facilities with high-intensity cold...



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