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Título: Methods Of X-Ray And Neutron Scattering In Polymer Science

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Methods of X-ray and Neutron Scattering in Polymer Science emphasizes basic concepts rather than details of specific techniques and derives relationships from first premises wherever possible. Beginning with coverage of the basic properties of x-rays and neutrons and their scattering from matter, it goes on to discuss methods of studying specific types of samples or properties. Topics covered include single-component crystalline and amorphous polymers; the small-angle scattering technique; binary, single-phase systems such as polymer blend and polymer solution; the technique of reflectivity measurement; and polymer dynamics by means of inelastic neutron scattering. A perfect introductory textbook for graduate and advanced undergraduate students in polymer science, Methods of X-ray and Neutron Scattering in Polymer Science also serves as a helpful self-study tool for polymer scientists seeking an introduction to scattering techniques. Further reading lists at the end of each chapter encourage readers to explore more advanced topics on their own.