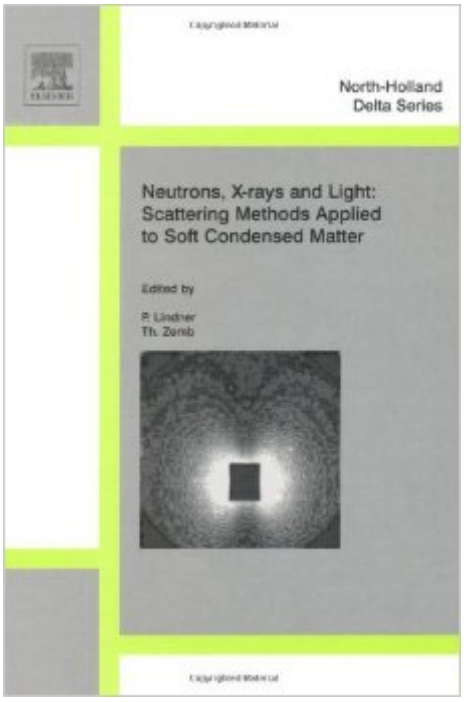
Neutron, X-rays And Light. Scattering Methods Applied To Soft Condensed Matter (North-Holland Delta Series)



Synopsis

Scattering experiments, using X-ray, light and neutron sources (in historical order) are key techniques for studying structure and dynamics in systems containing colliods, polymers, surfactants and biological macromolecules, summarized here as soft condensed matter. The education in this field in Europe is very heterogeneous and frequently inadequate, which severely limits an efficient use of these methods, especially at large-scale facilities. The series of "Bombannes" schools and the completely revised and updated second edition of the lecture notes are devoted to a practical approach to current methodology of static and dynamic techiques. Basic information on data interpretation, on the complementarity of the different types of radiation, as well as information on recent applications and developments is presented. The aim is to avoid over - as well as under-exploitation of data.

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