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Titolo	Particle Scattering, X-Ray Diffraction, and Microstructure of Solids and Liquids [[electronic resource] /] / edited by Manfred L. Ristig, Klaus A. Gernoth
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Scattering from Condensed Matter: A Brief Introduction Scattering Studies of Condensed Helium Isotopes The One- and Two-Body Densities of Crystalline Matter and Bragg and Diffuse Scattering of Neutrons and X-Rays Average Structure vs. Real Structure: Molecular Dynamics Studies of Silica Simulation and Theory of Inhomogeneous Liquid Crystals Disorder Diffuse Scattering of Crystals and Quasicrystals Inelastic Neutron Scattering from Structural Excitations.
Sommario/riassunto	Interesting and new specific results of current theoretical and experimental work in various fields at the frontier of particle scattering and X-ray diffraction are reviewed in this volume. Special emphasis is placed on the study of the microstructure of quantum solids, crystals, and liquids both classically and quantum mechanically. This gives the reader essential insights into the dynamics and properties of these

states of matter. The authors address students intere	sted in the physics
of quantum solids, crystallography and material scien	ce as well as
physical chemistry and computational physics.	