

Contents

Scattering from Condensed Matter:

A Brief Introduction

Klaus A. Gernoth and Manfred L. Ristig 1

Scattering Studies of Condensed Helium Isotopes

Ralph O. Simmons 7

The One- and Two-Body Densities of Crystalline Matter and Bragg and Diffuse Scattering of Neutrons and X-Rays

Klaus A. Gernoth 43

Average Structure vs. Real Structure:

Molecular Dynamics Studies of Silica

Martin H. Müser 75

Simulation and Theory of Inhomogeneous Liquid Crystals

Mike Allen 101

Disorder Diffuse Scattering of Crystals and Quasicrystals

Friedrich Frey 133

Inelastic Neutron Scattering from Structural Excitations

Götz Eckold 167