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2.4.4 Dynamic Light Scattering in Polydisperse Polymer Solutions; 2.4.5 Molecular Weight Measurement by Dynamic Light Scattering
2.4.6 Dynamic Light Scattering of Dilute Polymer Solutions in the Nonasymptotic q-Region2.4.7 Dynamic Light Scattering of Semidilute Polymer Solutions; 2.5 Light, X-Ray, and Neutron Scattering; 2.5.1 Light Scattering from Dipoles; 2.5.2 Scattering of X-Rays by Electrons; 2.5.3 Scattering of Neutrons by Nucleus; 2.5.4 Comparison of Light, X-Ray, and Neutron as a Probing Scattering Wave; Appendix; 2.A: Gaussian Stochastic Variable Approximation; 2.B: Spin Incoherence; 2.C: The Basic Scattering Laws for Incompressible Systems; References
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3.3.1 More Details on the Cahn-Hilliard Theory3.3.2 Experiments on Spinodal Decomposition; 3.3.3 Phase Dissolution; 3.3.4 Temperature Step Experiments within the One-Phase Region; 3.3.5 Summary; 3.4 Nucleation Phase Separation; 3.4.1 Fluctuations in the Metastable Region; 3.4.2 Nucleation Process; 3.4.3 Properties of the Nuclei; 3.4.4 Summary; 3.5 Phase Separation and Phase Behavior under Shear Flow; 3.5.1 Shear Effect in the One-Phase Region; 3.5.2 Shear Effect in the Two-Phase Region; 3.5.3 Shear-Induced Demixing
3.5.4 Nucleation Phase Separation under Shear Flow and Other Rheological Methods

Sommario/riassunto

"In this book, we will start from the traditional light scattering for dilute solution, and then bring in the concepts of fluctuations, correlations, and also space-time correlation function"--