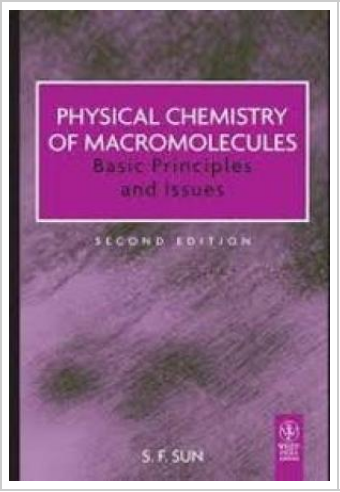

Physical Chemistry of Macromolecules: Basic Principles and Issues

By S.F. Sun

Wiley, 2013. Hardcover. Book Condition: New. Dust Jacket Condition: New. 2nd Edition. Contents: Preface to the Second Edition. Preface to the First Edition. 1. Introduction. 2. Syntheses of Macromolecular Compounds.3. Distribution of Molecular Weight. 4. Macromolecular Thermodynamics. 5. Chain Configuration. 6. Liquid Crystals. 7. Rubber Elasticity. 8. Viscosity and Viscoelasticity. 9. Osmotic Pressure. 10. Diffusion. 11. Sedimentation. 12. Optical Rotatory Dispersion and Circular Dichroism. 13. High-Performance Liquid Chromatography and Electrophoresis. 14. Light Scattering. 15. Fourier Series. 16. Small-Angle X-Ray Scattering, Neutron Scattering, and Laser Light Scattering. 17. Electronic and Infrared Spectroscopy. 18. Protein Molecules. 19. Nuclear Magnetic Resonance. 20. X-Ray Crystallography. Author Index. Subject Index. Since the publication of the first edition of Physical Chemistry of Macromolecules, new developments in the field have greatly advanced the study of large molecules. These advancements include the technical improvement of measuring instruments as well as the involvement of new disciplines such as materials science and structural biology. The second ed. of Physical Chemistry of Macromolecules takes these changes into account while continuing the uniquely integrated approach to polymers and biological macromolecules taken by the original text. It explores fully the principles of macromolecular chemistry, methods for determining molecular weight and configuration of molecules,...

Reviews

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