

Introduction to Macromolecular Science



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Introduction to Macromolecular Science provides a broad introduction to polymer science, including polymer structure, techniques for synthesis, properties in solution, and the technology of polymeric materials. This revised Second Edition presents up-to-date information on the newest aspects of polymer science, as well as expanded, comprehensive treatments of foundational techniques and theories. Additionally, each chapter concludes with a list of references for further research, a set of review questions, and a list of theoretical derivations and numerical problems. Other new features of this edition include: * Coverage of recent synthetic procedures for polymers, such as living radical and cationic polymerizations, group transfer polymerization, polymerizations using metallocene and metathesis catalysts, and syntheses leading to dendrimers * Expanded material on separation techniques and the technological facets of polymer processing * An introduction to the techniques used for studying the structure of nucleic acids * Techniques for studying polymer surfaces and polymeric membranes * Topics such as polymer nomenclature, liquid crystalline polymers, and block copolymer micelles Introduction to Macromolecular Science, Second Edition is an essential volume for students and scholars of chemistry and chemical engineering, as well as polymer researchers, chemists, and chemical engineers in government and industry.

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