



Principles of Polymer Systems, Sixth Edition

Ferdinand Rodriguez, Claude Cohen, Christopher K. Ober, Lynden Archer

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Maintaining a balance between depth and breadth, the **Sixth Edition** of **Principles of Polymer Systems** continues to present an integrated approach to polymer science and engineering. A classic text in the field, the new edition offers a comprehensive exploration of polymers at a level geared toward upper-level undergraduates and beginning graduate students.

Revisions to the sixth edition include:

- A more detailed discussion of crystallization kinetics, strain-induced crystallization, block copolymers, liquid crystal polymers, and gels
- New, powerful radical polymerization methods
- Additional polymerization process flow sheets and discussion of the polymerization of polystyrene and poly(vinyl chloride)
- New discussions on the elongational viscosity of polymers and coarse-grained bead-spring molecular and tube models
- Updated information on models and experimental results of rubber elasticity
- Expanded sections on fracture of glassy and semicrystalline polymers
- New sections on fracture of elastomers, diffusion in polymers, and membrane formation
- New coverage of polymers from renewable resources
- New section on X-ray methods and dielectric relaxation

All chapters have been updated and out-of-date material removed. The text contains more theoretical background for some of the fundamental concepts pertaining to polymer structure and behavior, while also providing an up-to-date discussion of the latest developments in polymerization systems. Example problems in the text help students through step-by-step solutions and nearly 300 end-of-chapter problems, many new to this edition, reinforce the concepts presented.



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