

- Preface
- 1 Introduction
- 2 Some physical techniques for studying polymers
- 3 Molecular sizes and shapes and ordered structures
- 4 Regular chains and crystallinity
- 5 Morphology and motion
- 6 Mechanical properties I - time-independent elasticity
- 7 Mechanical properties II - linear viscoelasticity
- 8 Yield and fracture of polymers
- 9 Electrical and optical properties
- 10 Oriented polymers I - production and characterisation
- 11 Oriented polymers II - models and properties
- 12 Polymer blends, copolymers, and liquid crystal polymers
- Appendix: Cartesian tensors
- Solutions to problems
- Index