

CONTENTS

1. Introduction	1
2. Basic structures of polymers	10
3. Physical states and transitions	26
4. Polymer formation	49
5. Polymerization processes	95
6. The molecular weight of polymers	115
7. Viscous flow	144
8. Mechanical properties at small deformations	194
9. Ultimate properties	222
10. Some general properties of polymer systems	254
11. Degradation and stabilization of polymer systems	270
12. Fabrication processes	298
13. Carbon chain polymers	370
14. Heterochain polymers	418
15. Analysis and identification of polymers	464
16. Name index	531
17. Subject index	539