

CONTENTS

Preface	ix
Preface to the Second Edition	xiii
Preface to the First Edition	xv
Chapter 1 Polymerization and Characterization of Polymers	1
Chapter 2 Preparation, Fabrication, and Characterization of Polymers	13
Chapter 3 Advanced Processing	41
Chapter 4 Polyamides, Ureas, Urethanes, and Other Amide-Linked Polymers	57
Chapter 5 Polyesters, Polycarbonates, and Polyurethanes	103
Chapter 6 High-Temperature and High-Performance Polymers	137
Chapter 7 Solid-Phase Polymerization	181
Chapter 8 Ring-Opening Polymerization	187
Chapter 9 Addition Polymerization	235
	vii

Chapter 10	Elastomers for Fabrics	353
Chapter 11	Synthetic Resins and Composites	373
Chapter 12	Nonclassical Routes to Polymers	399
Index		449