Fundamental Principles of Polymeric Materials. 3rd Edition

Description:
New edition brings classic text up to date with the latest science, techniques, and applications

With its balanced presentation of polymer chemistry, physics, and engineering applications, the Third Edition of this classic text continues to instill readers with a solid understanding of the core concepts underlying polymeric materials. Both students and instructors have praised the text for its clear explanations and logical organization. It begins with molecular-level considerations and then progressively builds the reader's knowledge with discussions of bulk properties, mechanical behavior, and processing methods.

Following a brief introduction, Fundamental Principles of Polymeric Materials is divided into four parts:

Part 1: Polymer Fundamentals
Part 2: Polymer Synthesis
Part 3: Polymer Properties
Part 4: Polymer Processing and Performance

Thoroughly Updated and Revised

Readers familiar with the previous edition of this text will find that the organization and style have been updated with new material to help them grasp key concepts and discover the latest science, techniques, and applications. For example, there are new introductory sections on organic functional groups focusing on the structures found in condensation polymerizations. The text also features new techniques for polymer analysis, processing, and microencapsulation as well as emerging techniques such as atom transfer radical polymerization.

At the end of each chapter are problems including many that are new to this edition to test the reader's grasp of core concepts as they advance through the text. There are also references leading to the primary literature for further investigation of individual topics.

A classic in its field, this text enables students in chemistry, chemical engineering, materials science, and mechanical engineering to fully grasp and apply the fundamentals of polymeric materials, preparing them for more advanced coursework.

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