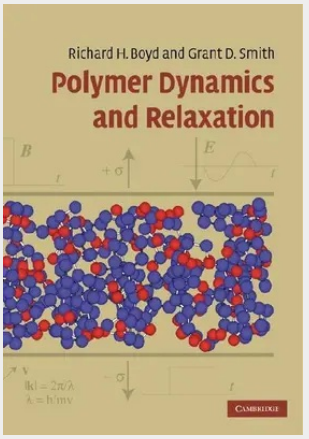
Boyd / Smith

Polymer Dynamics and Relaxation

This book was first published in 2007. Polymers exhibit a range of physical characteristics, from rubber-like elasticity to the glassy state. These particular properties are controlled at the molecular level by the mobility of the structural constituents. Remarkable changes in mobility can be witnessed with temperature, over narrow, well defined regions, termed relaxation processes. This is an important, unique phenomenon controlling polymer transition behaviour and is described here at an introductory level. The important types of relaxation processes from amorphous to crystalline polymers and polymeric miscible blends are covered, in conjunction with the broad spectrum of experimental methods used to study them in 2007. In-depth discussion of molecular level interpretation, including atomistic level computer simulations and applications to molecular mechanism elucidation, are discussed. The result is a self-contained approach to polymeric interpretation suitable for researchers in materials science, physics and chemistry interested in the relaxation processes of polymeric systems.

A detailed discussion on the different types of relaxation processes and the experimental methods used to study them.



60,40 €
60,40 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521152914
Medium: Buch
ISBN: 978-0-521-15291-4
Verlag: Cambridge University Press
Erscheinungstermin: 02.07.2010
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2010
Produktform: Kartoniert
Gewicht: 465 g
Seiten: 266
Format (B x H): 170 x 244 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)