



Polymers: Chemistry and Physics of Modern Materials

By John McKenzie Grant Cowie

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A revised and up-dated edition of this widely adopted text. The author presents the basis of polymer science from an interdisciplinary point of view at a level suitable for undergraduate students. The development of the text follows this broad sequence: preparation, characterization, physical and mechanical properties, structure-property relations. There is a new chapter on Ziegler catalysis and new sections on Ring opening metathesis polymerizations and group transfer polymerization techniques - both of which are relevantly new and important methods. The section on gel permeation chromatography has been expanded because of the increasing importance of the technique, and dielectric spectroscopy will be included, because of its increased use. High-performance plastics will also be included, in line with their growing importance. Two new chapters will cover the significant crystals and speciality polymers. Written for undergraduate students of polymer and materials science and technology.

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Polymers: Chemistry and Physics of Modern Materials By John McKenzie Grant Cowie Bibliography

- Sales Rank: #13262761 in Books
- Published on: 1990-10
- Original language: English
- Number of items: 1
- Binding: Paperback
- 304 pages



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