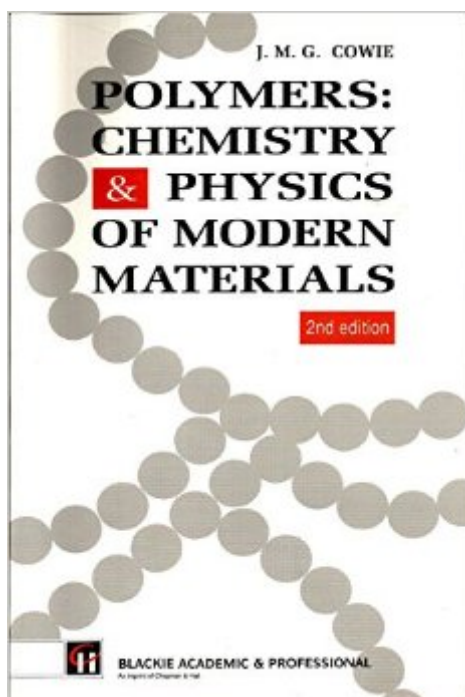


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Polymers: Chemistry And Physics Of Modern Materials



Synopsis

All chapters in this new edition have been carefully revised and updated to take account of recent developments in polymer science. The development of the text follows this broad sequence: preparation, characterization, physical and mechanical properties and structure-property relations. In particular there are new sections on ring opening metathesis polymerizations and group transfer polymerization techniques - both of which are relatively new and important methods. The section on gel permeation chromatography has been expanded, and dielectric spectroscopy has been included, because of its increased use. High-performance plastics have been included in line with their growing importance, and two new chapters cover liquid crystals and speciality polymers. This book should be of interest to undergraduate students of chemistry, polymer science, materials technology and engineering.

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Good introduction. Covers chemistry of polymerization (step growth, free radical, ionic). Amorphous, semi-crystalline and elastomeric polymers. Covers mechanical properties in terms of viscoelastic behaviour. This book could be very useful to non-chemists requiring a brief readable introduction to, or overview of, polymer chemistry. Does not assume high level of prior knowledge in chemistry or calculus. Does also not provide much specific physical or mechanical data of commercial polymers.

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