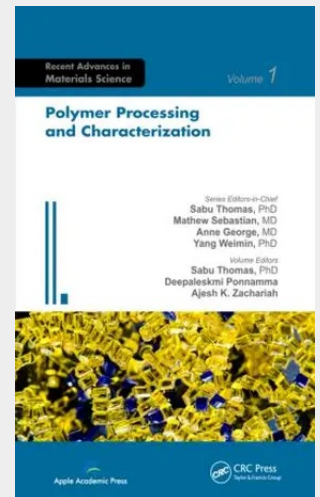


Polymer Processing and Characterization

This book deals with the polymers, different methods of synthesis, and synthesis of composites, as well as the different techniques used for polymer characterization. Most of the world's industries extract the anomalous properties of polymers to make excellent cost-effective materials. Because of this, the types of polymers, their processing, and the analysis of their various properties are very significant. Readers will gain a thorough knowledge about the processing of different types of polymers and composites made from them, as well as their various applications. Suitable for classroom use but especially important for researchers, this book addresses: - Adhesion of amorphous polymers with vitrified bulk and surface glass transition - Functionalized biopolymers and their applications - A new synthesis of p-Cresol-Adipamide-Formaldehyde copolymer resin and its applications as an ion-changer - Correlating performance of commercial viscosity modifiers for formulating shear stable industrial lubricants - Synthesis of phthalonitrile polymers in ionic liquid and microwave media - Studies on nanocomposite polymer electrolytes doped with $\text{Ca}_3(\text{PO}_4)_2$ for lithium batteries



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