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Focuses on the relationships between the chemical structure and the related physical characteristics of plastics, which determine appropriate material selection, design, and processing of plastic parts. One of the special features is the extensive discussion and explanation of the interdependence between structure-properties and processing. The book contains numerous application-oriented examples and is presented at an intermediate level for both practicing plastic engineers and advanced engineering students. Contents: Economic Development Market Review and Predictions. General Characteristics of Polymeric Materials. Molecular Structure and Synthesis of Polymers. Structure of Polymeric Materials. Thermomechanical Properties. Mechanical Behavior. Aging and Stabilization. Overview of Selected Polymeric Materials