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description of the connection between innovative material performance and multimodal polymer design, which incorporates both flexibility and constraints of multimodal processes and catalyst needs, is provided. This book provides a summary of the polymerization process, from the atomistic level to the macroscale, process components, including catalysts, and their influence on final polymer performance. This reference merges scholarly investigation and industrial knowledge to fill the gaps between academic research and industrial processes. Connects innovative material performance to the flexibility of multimodal polymer design processes; Provides a comprehensive description of the polymerization process from the atomic level to the macroscale; Presents a polyhedric view of multimodal polymer production, including structure, property, and processing relationships, and the development of new materials.