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# Multimodal Polymers with Supported Catalysts

Design and Production

- Provides a comprehensive overview of polyolefin production
- Introduces the latest developments implemented in modern polyolefin manufacturing processes - the development of the catalysts and changes to the process conditions
- Addresses the technical issues resulting from upscaling research concepts to industrial processes

This book provides an overview of polyolefine production, including several recent breakthrough innovations in the fields of catalysis, process technology, and materials design. The industrial development of polymers is an extraordinary example of multidisciplinary cooperation, involving experts from different fields. An understanding of structure-property and processing relationships leads to the design of materials with innovative performance profiles. A comprehensive 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 academic research 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 polyhedral view of multimodal polymer production, including structure, property, and processing relationships, and the development of new materials.

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