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Nota di contenuto	Foreword to the First Edition; Preface; Contents; Contributors; Competitive New Technologies in Polyolefin Synthesis and Materials; Recent Progress on Single-Site Catalysts; Synthesis of Monomers by Olefin Metathesis; Advances in Cycloolefin Polymerization; Synthesis of Copolymers from Cycloolefins; Structure of Polyolefins; Morphology of Polyolefins; The Glass Transition of Polyolefins; Crystallization of Polyolefins; Estimation of Properties of Olefin Monomers and Polymers; Mechanical Properties and Parameters of Polyolefins; Electrical Properties Rheological and Optical Properties and Parameters Solution Characterization of Polyolefins; Thermodynamic Properties of Polyolefin Solutions; General Survey of the Properties of Polyolefins; Degradation and Decomposition; Biocompatibility and Biodeterioration of Polyolefins; Controlled-Lifetime PO Materials; Additives for Polyolefins; Special Additives: Blowing Agents, Flame Retardants, Pigments, Fillers, and Reinforcements; Polyolefin Polyblends; Compatibilization of Polyolefin Polyblends; Surface Modifications of Polyolefins by Gas-Phase Methods Polyolefin Composites: Interfacial Phenomena and Properties Functionalized Polyolefins: Synthesis and Application in Blends and

Composites; Polyolefin Fibers; Technological Aspects of Additive Use for Polyolefin Fiber Production; Technological Aspects of Additives Use for Thermoplastic and Elastomeric Polyolefins; Quality Control of Processed Thermoplastic Polyolefins; Balance of Processability, Performance, and Marketability in Metallocene Polyolefins; Appendix 1; Appendix 2; Index

Sommario/riassunto

A handbook on polyolefins. This second edition includes new material on the structure, morphology and properties of polyolefin (PO) synthesis. It focuses on synthetic advances, the use of additives, special coverage of PO blends, composites and fibres, and surface treatments. It also addresses the problem of interfacial and superficial phenomena.
