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Nota di contenuto	Frontmatter -- Preface -- Contents -- 1. Shape memory polymers -- 2. Classification of shape memory polymers -- 3. Characterization techniques for shape memory polymers -- 4. Shape memory polyurethanes: From materials to synthesis -- 5. Applications of shape memory polymers -- 6. Future directions -- Index
Sommario/riassunto	The basic principles and mechanism of shape memory polymers, classification of shape memory polymers, and related characterization techniques are illustrated. Furthermore, an overview of the broad spectrum of applications in various fields for shape memory polymer is presented. Special focus will be given to hyperbranched, blended, interpenetrating and bio-based shape memory polymers, as well as shape memory polymer nanocomposites.