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Nota di contenuto	Intro -- Contents -- List of contributing authors -- 1 Introduction: biopolymers and biocomposites -- 2 Lignin-based polymers -- 3 Cellulose-based polymers -- 4 Plant oil-based polymers -- 5 Bio-based polyurethane aqueous dispersions -- 6 Soybean-based polymers and composites -- 7 Biodegradable polylactic acid (PLA) -- 8 Bio-based polyhydroxyalkanoates blends and composites -- 9 Biodegradable polycaprolactone (PCL) based polymer and composites -- 10 Biodegradable poly(butylene adipate-coterephthalate) (PBAT) -- 11 Bio-based polyamide -- 12 Biodegradable shape-memory polymers and composites -- 13 Poly(glycerol sebacate) - a revolutionary biopolymer -- Index.
Sommario/riassunto	The growing interest in replacing petroleum-based products by inexpensive, renewable, natural materials will have a significant impact on sustainability, environment, and the polymer industry. This book provides scientists a useful framework to help take advantage of the latest research conducted in this rapidly advancing field enabling them to develop and commercialize their own products quickly and more successfully.