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Nota di contenuto	Thermoplastic Starch: A Green Material for Various Industries; Contents; Preface; List of Contributors; 1: Biodegradable Polymers and Their Practical Utility; 1.1 Natural Polymers; 1.2 Polymers with Hydrolyzable Backbones; 1.3 Polymers with Carbon Backbones; 1.4 Practical Applications of Biodegradable Polymers; 1.4.1 Medical Applications; 1.4.1.1 Surgical Sutures; 1.4.1.2 Bone-Fixation Devices; 1.4.1.3 Vascular Grafts; 1.4.1.4 Adhesion Prevention; 1.4.1.5 Artificial Skin; 1.4.1.6 Drug Delivery Systems; 1.4.2 Agricultural Applications; 1.4.2.1 Agricultural Mulches 1.4.2.2 Controlled Release of Agricultural Chemicals1.4.3 Packaging; 1.4.3.1 Starch-Based Packaging Materials; 1.4.3.2 PLA-Based Packaging

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3.6.4 ASTM D5511-94 [21] (High-solids Anaerobic Digestion)
3.6.5 Tests for Specific Disposal Environments; 3.6.6 International Standards Research; 3.6.7 Standard EN 13432-Proof of Compostability of Plastic Products; 3.6.8 Other Standards; 3.6.9 "OK Compost" Certification and Logo; 3.7 Environmental Aspects of Biopolymers; 3.7.1 Climate Protection; 3.7.2 Life-Cycle Economy; 3.7.3 Recovery Options; 3.7.4 Waste Management and Bioplastics Treatment; References; 4: TPS and Its Nature; 4.1 Structure and Properties; 4.2 Glass Transition Temperature; 4.3 Mechanical Properties of Granulates
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Sommario/riassunto

This first book on this new green material collates all the information hitherto scattered in journal articles and on websites, thus meeting the application-oriented needs of the reader. The contents stretch between many important areas, such as production and applications of biopolymeric material, fundamental knowledge and practical applications, and includes valuable experimental case studies, which can be directly used in industrial practice. All the data satisfies EU environmental regulations, which are the most stringent worldwide.
