

CONTENTS

OVERVIEWS

- | | |
|---|----|
| 1. Polymeric Materials from Agricultural Feedstocks | 2 |
| 2. Status of Technology and Applications of Degradable Products | 29 |

STARCH, STARCH BLENDS, AND COMPOSITES

- | | |
|---|-----|
| 3. Melt Rheology of Thermoplastic Starch | 50 |
| 4. Synthesis and Characterization of Dodecanyl Succinate Derivatives of Saccharides | 69 |
| 5. Mechanical Properties of Pectin – Starch Films | 82 |
| 6. Biodegradable Plastics Made from Agricultural Biopolymers | 92 |
| 7. Formulations of Polyurethane Foams with Corn Carbohydrates | 101 |

POLYSACCHARIDES, OLIGOSACCHARIDES, AND MONOSACCHARIDES

- | | |
|---|-----|
| 8. Hydrogel-Type Polymer in the Controlled Release of Phytodrugs | 112 |
| 9. Cornstarch-Derived Chemicals in Thermoplastic and Thermoset Applications | 126 |
| 10. Simple Preparation of Hydroxylated Nylons – Polyamides Derived from Aldaric Acids | 149 |

POLYAMIDES, PROTEINS, POLYESTERS, AND RUBBERS

- | | |
|---|-----|
| 11. Synthesis of Functionalized Targeted Polyamides | 160 |
| 12. Extraction and Characterization of “Chrome-Free” Protein from Chromium-containing Collagenous Waste Generated in the Leather Industry | 171 |
| 13. Embrittlement and Rejuvenation of Bacterial Poly [(R)-3-hydroxybutrate] | 188 |
| 14. Bacterial Conversion of a Waste Stream Containing Methyl-2-hydroxyisobutric Acid to Biodegradable Polyhydroxyalkanoate Polymers | 202 |
| 15. Application of Lesquerella Oil in Industrial Coatings | 212 |
| 16. Synthesis, Characterization, Derivation, and Application of Guayule Coproducts:
A Review | 223 |

- | | |
|-------------------|-----|
| Author Index | 240 |
| Affiliation Index | 240 |
| Subject Index | 241 |