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Nota di contenuto	<p>Front Cover; Contents; Preface; Acknowledgments; Editors; Contributors; Chapter 1. Synthesis and Fabrication of Polyesters as Biomaterials; Chapter 2. Hydrogels Formed by Cross-Linked Poly(Vinyl Alcohol); Chapter 3. Development and Evaluation of Poly (Vinyl Alcohol) Hydrogels as a Component of Hybrid Artificial Tissues for Orthopedics Surgery Application; Chapter 4. Polyphosphazenes as Biomaterials; Chapter 5. Biodegradable Polymers as Drug Carrier Systems; Chapter 6. Bioresorbable Hybrid Membranes for Bone Regeneration; Chapter 7. Mucoadhesive Polymers</p> <p>Chapter 8. Biodegradable Polymeric/Ceramic Composite Scaffolds to Regenerate Bone Tissue Chapter 9. Amphiphilic Systems as Biomaterials Based on Chitin, Chitosan, and Their Derivatives; Chapter 10. Biomaterials of Natural Origin in Regenerative Medicine; Chapter 11. Natural Polymers as Components of Blends for Biomedical Applications; Chapter 12. Metal-Polymer Composite Biomaterials; Chapter 13. Evolution of Current and Future Concepts of Biocompatibility Testing; Chapter 14. Biocompatibility of Elastomers; Chapter 15. Preparation and Applications of Modulated Surface Energy Biomaterials</p> <p>Chapter 16. Electrospinning for Regenerative Medicine Chapter 17. Polymeric Nanoparticles for Targeted Delivery of Bioactive Agents and Drugs; Chapter 18. Polymeric Materials Obtained through Biocatalysis; Chapter 19. Polymer-Based Colloidal Aggregates as a New Class of Drug Delivery Systems; Chapter 20. Photoresponsive Polymers for Control of Cell Bioassay Systems; Chapter 21. Lignin in Biological Systems; Chapter 22. Carbohydrate-Derived Self-Crosslinkable In Situ Gelable Hydrogels for Modulation of Wound Healing; Chapter 23. Dental and Maxillofacial Surgery Applications of Polymers</p> <p>Chapter 24. Biomaterials as Platforms for Topical Administration of Therapeutic Agents in Cutaneous Wound Healing Chapter 25. Polymers for Artificial Joints; Index; Back Cover</p>
Sommario/riassunto	Biomaterials have had a major impact on the practice of contemporary medicine and patient care. Growing into a major interdisciplinary effort involving chemists, biologists, engineers, and physicians, biomaterials development has enabled the creation of high-quality devices, implants, and drug carriers with greater biocompatibility and biofunctionality. The fast-paced research and increasing interest in finding new and improved biocompatible or biodegradable polymers has provided a wealth of new information, transforming this edition of <i>Polymeric Biomaterials</i> into a two-volume set. This volume