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Nota di contenuto	Front Cover; Contents; Preface; Acknowledgments; Editors; Contributors; Chapter 1 - Antithrombin-Heparin Complexes; Chapter 2 - Glucose-Sensitive Hydrogels; Chapter 3 - Advances in Polymeric and Lipid-Core Micelles as Drug Delivery Systems; Chapter 4 - Modular Biomimetic Drug Delivery Systems; Chapter 5 - Polymeric Nanoparticles for Drug Delivery; Chapter 6 - Drug Carrier Systems for Anticancer Agents; Chapter 7 - Application of Polymer Drugs to Medical Devices and Preparative Medicine; Chapter 8 - Polymer Implants for Intratumoral Drug Delivery and Cancer Therapy Chapter 9 - Biological Stimulus-Responsive Hydrogels Chapter 10 - Polymeric Materials for Surface Modification of Living Cells; Chapter 11 - Biomedical Applications of Shape Memory Polymers and Their Nanocomposites; Chapter 12 - Bioadhesive Drug Delivery Systems; Chapter 13 - Nanomedicines Coming of Age: Recent Developments in Nanoneuroscience and Nano-Oncology; Chapter 14 - Polymers for Myocardial Tissue Engineering; Chapter 15 - Acellular Tubular Grafts Constructed from Natural Materials in Vascular Tissue Engineering: From Bench to Bedside

Chapter 16 - pH-Responsive Polymers for Delivery of Nucleic Acid Therapeutics
Chapter 17 - Adhesive Biomaterials for Tissue Repair and Reconstruction;
Chapter 18 - Polymeric Interactions with Drugs and Excipients;
Chapter 19 - Manufacturing Multifunctional Scaffolds for Tissue Engineering;
Chapter 20 - Virus-Based Nanoparticles as Drug Delivery Systems;
Chapter 21 - Polymeric Biomaterials in Pulmonary Drug Delivery;
Chapter 22 - Polymeric Gene Delivery Carriers for Pulmonary Diseases;
Chapter 23 - Biomedical Application of Membranes in Bioartificial Organs and Tissue Engineering
Chapter 24 - Controlled Release Systems for Bone Regeneration
Chapter 25 - Controlled Release Systems Targeting Angiogenesis;
Chapter 26 - Bioceramics for Development of Bioartificial Liver;
Chapter 27 - Materials Biofunctionalization for Tissue Regeneration;
Chapter 28 - Polymers-Based Devices for Dermal and Transdermal Delivery; Back Cover

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 Polymeric Biomaterials into a two-volume set. This volume
