Polymers for Vascular and Urogenital Applications

In a carefully crafted, multidisciplinary, skillfully focused format, Polymers for Vascular and Urogenital Applications covers attributes of polymers used for vascular, urological, and gynecological materials. It provides a brief analysis of how the use of polymers in vascular and urogenital applications has evolved in the past five decades and outlines their common and specific functional requirements. The book provides a brief description of the evolving role of a particular family of materials and presents topics in highly integrated, well-balanced, authoritatively prepared segments on materials processing and in vitro and in vivo evaluation, complete with case studies.

This book not only integrates clinical needs with current and future research responses but also provides a comprehensive overview to foster future innovation. It illustrates how two important and dissimilar areas in medicine can be interrelated by shared biomaterials and explores the clinical paradigm that establishes the driving force for innovation.

Key Features

- Includes contributions from authors representing a diverse technical group of clinicians with strong science or engineering backgrounds and research interests
- Supplies a comprehensive link between polymeric biomaterials and their application
- Provides a brief description of the evolving role of a particular family of materials
- Discusses recent developments in applications and the rationale for present and future clinical significance

Selected Table of Contents

Introductory Notes.
Drug Delivery Systems for Vascular Disease Therapy.
Polymeric Biomaterials for Vascular Tissue Engineering.
Polymeric Materials for Vascular Grafts.
Endovascular Stents.
Nitric Oxide Delivery for Prevention of Restenosis.
Clinical Uses and Applications of Ureteral Stents.
Intravaginal Drug Delivery.
Polymer-Based Scaffolds for Urinary Bladder Tissue Engineering.
Vascular and Urogenital Sealants and Blocks.
Materials and Polymers for Use in Surgical Simulation and Validation.
Index.

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ISBN: 978-1-4200-7694-3
May 2012 | $179.95
HB | 270 pp.