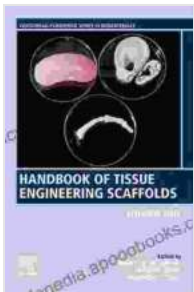


Fundamentals, Applications, and Tissue Engineering - Woodhead Publishing Series in Biomaterials

About the Book

This book provides comprehensive coverage of the fundamental principles and applications of biomaterials, including tissue engineering and regenerative medicine. It discusses key topics such as biocompatibility, biodegradation, and biomechanics, as well as the latest advances in nanotechnology and stem cell research.



Biomedical Textiles for Orthopaedic and Surgical Applications: Fundamentals, Applications and Tissue Engineering (Woodhead Publishing Series in Biomaterials Book 93)

★★★★★ 5 out of 5

Language : English
File size : 7156 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 200 pages



The book is divided into three parts:

- Part 1: Fundamentals of Biomaterials
- Part 2: Applications of Biomaterials

- Part 3: Tissue Engineering and Regenerative Medicine

Part 1 covers the basic principles of biomaterials, including their composition, structure, and properties. It also discusses the different types of biomaterials and their applications in various fields of medicine.

Part 2 discusses the specific applications of biomaterials in different areas of medicine, such as orthopedics, cardiovascular surgery, and dentistry. It also covers the use of biomaterials in drug delivery and tissue engineering.

Part 3 covers the latest advances in tissue engineering and regenerative medicine. It discusses the different types of stem cells and their potential for use in tissue engineering. It also covers the different methods of tissue engineering and the challenges that need to be overcome.

Target Audience

This book is intended for a wide audience, including:

- Scientists and engineers working in the field of biomaterials
- Clinicians and surgeons using biomaterials in their practice
- Students and researchers in the field of biomaterials

Benefits of Reading This Book

This book provides a number of benefits for readers, including:

- A comprehensive overview of the fundamental principles and applications of biomaterials

- In-depth coverage of the latest advances in nanotechnology and stem cell research
- A discussion of the challenges and opportunities in tissue engineering and regenerative medicine
- A valuable reference for scientists, engineers, clinicians, and students in the field of biomaterials

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About the Authors

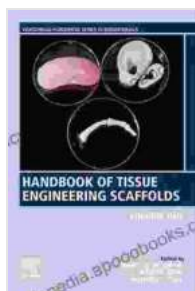
The book is edited by a team of leading experts in the field of biomaterials.
The editors are:

- Professor Robert Langer, Massachusetts Institute of Technology
- Professor Joseph Vacanti, Harvard Medical School
- Professor Peter Zandstra, University of Toronto

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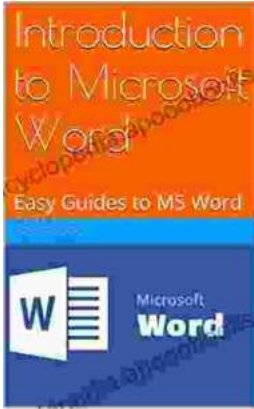


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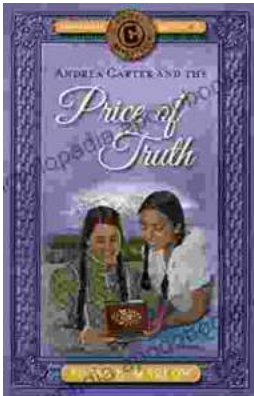
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