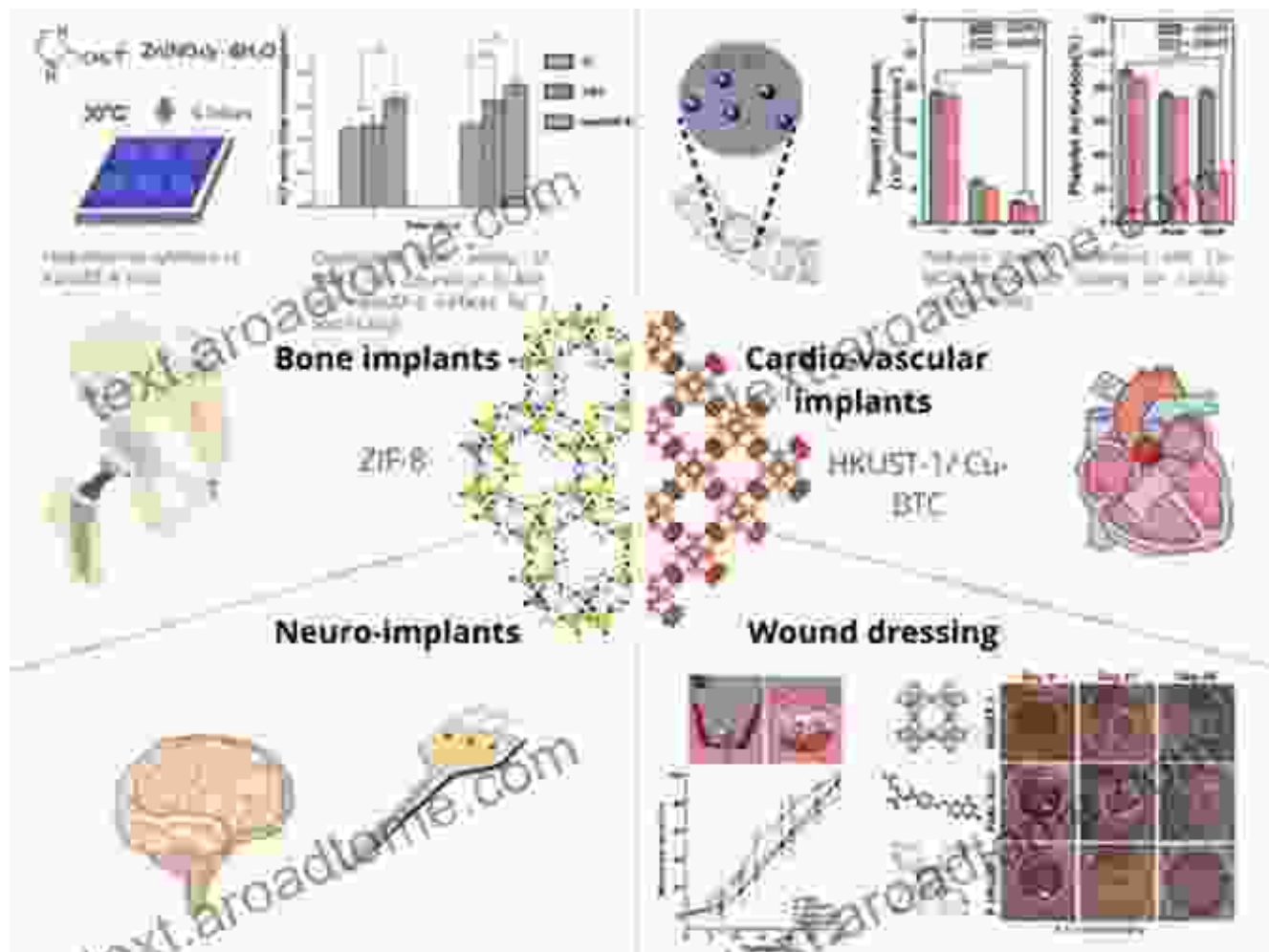


# Fundamentals, Design and Drug Delivery of Biomaterials in Tissue Engineering and Regenerative Medicine



## Inhaler Devices: Fundamentals, Design and Drug Delivery (Woodhead Publishing Series in Biomaterials Book 59) by Mark Deneen

★★★★★ 5 out of 5

Language : English  
File size : 3234 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled



**Fundamentals, Design and Drug Delivery of Biomaterials in Tissue Engineering and Regenerative Medicine** provides readers with a comprehensive understanding of the fundamentals of biomaterials science, drug delivery technologies, as well as their applications in tissue engineering and regenerative medicine.

The book is divided into four parts:

1. **Fundamentals of Biomaterials:** This part covers the basic principles of biomaterials science, including biocompatibility, biodegradation, and biomimetics.
2. **Drug Delivery Technologies:** This part discusses the different types of drug delivery systems, including controlled release, targeted delivery, and stimuli-responsive delivery.
3. **Applications in Tissue Engineering and Regenerative Medicine:** This part explores the use of biomaterials and drug delivery technologies in the development of tissue engineered constructs and regenerative medicine therapies.
4. **Future Perspectives:** This part provides an overview of the future directions of research in the field of biomaterials and drug delivery for tissue engineering and regenerative medicine.

**Fundamentals, Design and Drug Delivery of Biomaterials in Tissue Engineering and Regenerative Medicine** is an essential resource for

researchers and students in the fields of biomaterials science, drug delivery, tissue engineering, and regenerative medicine. It is also a valuable reference for clinicians and practitioners who are interested in using biomaterials and drug delivery technologies in the treatment of patients.

## **Key Features**

- Comprehensive coverage of the fundamentals of biomaterials science, drug delivery technologies, and their applications in tissue engineering and regenerative medicine
- In-depth discussion of the different types of biomaterials, drug delivery systems, and tissue engineering constructs
- Exploration of the latest advances in the field, including stem cell-based therapies, 3D printing, and microfabrication
- Contributions from leading researchers and experts in the field
- Valuable reference for researchers, students, clinicians, and practitioners

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## **Reviews**

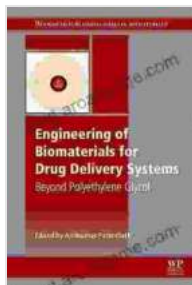
**"Fundamentals, Design and Drug Delivery of Biomaterials in Tissue Engineering and Regenerative Medicine is a comprehensive and up-to-date overview of the field. It is an essential resource for researchers, students, and practitioners who are interested in using biomaterials and drug delivery technologies to develop new and innovative treatments for patients."**

**- Dr. Anthony Atala, Director, Wake Forest Institute for Regenerative Medicine**

**"This book provides a comprehensive overview of the fundamentals, design, and drug delivery of biomaterials in tissue engineering and regenerative medicine. It is a valuable resource for researchers, students, and clinicians who are interested in this emerging field."**

**- Dr. Robert Langer, David H. Koch Institute Professor, Massachusetts Institute of Technology**

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