

The book was found

# Biomaterials For Clinical Applications



## Synopsis

Biomaterials for Clinical Applications is organized according to the World Health Organization's report of the top 11 causes of death worldwide, and lays out opportunities for both biomaterials scientists and physicians to tackle each of these leading contributors to mortality. The introductory chapter discusses the global burden of disease. Each of the subsequent eleven chapters focuses on a specific disease process, beginning with the leading cause of death worldwide, cardiovascular disease. The chapters start with describing diseases where clinical needs are most pressing, and then envisions how biomaterials can be designed to address these needs, instead of the more technologically centered approach favored by most books in the field. This book, then, should appeal to chemical engineers and bioengineers who are designing new biomaterials for drug delivery and vaccine delivery, as well as tissue engineering.

## Book Information

Hardcover: 275 pages

Publisher: Springer; 2010 edition (September 9, 2010)

Language: English

ISBN-10: 1441969195

ISBN-13: 978-1441969194

Product Dimensions: 6.3 x 0.8 x 9.3 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #864,786 in Books (See Top 100 in Books) #64 in Books > Science & Math > Chemistry > Clinical #153 in Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology #302 in Books > Engineering & Transportation > Engineering > Bioengineering > Biomedical Engineering

## Customer Reviews

This book is organized according to the World Health Organization's report of the top 10 causes of death worldwide, and lays out opportunities for both biomaterials scientists and physicians to confront each of these leading contributors to mortality. The introductory chapter discusses the global burden of disease. Each of the subsequent ten chapters focuses on a specific disease process, beginning with the leading cause of death worldwide, cardiovascular disease. Each chapter begins by describing diseases in which clinical needs are most pressing, and then envisions how biomaterials can be designed to address these needs. The approach is clinically centered, in

contrast to the more technologically centered approached favored by most books in the field. This book bridges the gap between the laboratory and the clinic by identifying needs for biomedical materials in the context of the most prevalent diseases worldwide. Sujata K. Bhatia is a physician-scientist at DuPont Applied BioSciences, and an affiliated faculty member in the Department of Chemical Engineering at the University of Delaware.

Sujata K. Bhatia is a physician-scientist at DuPont Applied BioSciences, and an affiliated faculty member in the Department of Chemical Engineering at the University of Delaware. She earned three bachelor's degrees, in biology, biochemistry, and chemical engineering, and a master's degree in chemical engineering at the University of Delaware. She then attended the University of Pennsylvania School of Medicine, where she earned her MD and PhD in bioengineering. She currently contributes to medical biomaterials projects, as well as health and nutrition programs at DuPont. She teaches biochemical engineering and biomedical engineering courses at the University of Delaware.

[Download to continue reading...](#)

Regulatory Affairs for Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials) Dental Biomaterials: Imaging, Testing and Modelling (Woodhead Publishing Series in Biomaterials) Sterilisation of Biomaterials and Medical Devices (Woodhead Publishing Series in Biomaterials) Perspectives in Total Hip Arthroplasty: Advances in Biomaterials and their Tribological Interactions (Woodhead Publishing Series in Biomaterials) Wound Healing Biomaterials - Volume 2: Functional Biomaterials Biomaterials for Clinical Applications Orthodontic Applications of Biomaterials: A Clinical Guide Nutritional Foundations and Clinical Applications: A Nursing Approach, 5e (Foundations and Clinical Applications of Nutrition) Introduction to Biomaterials: Basic Theory with Engineering Applications (Cambridge Texts in Biomedical Engineering) Porous Silicon for Biomedical Applications (Woodhead Publishing Series in Biomaterials) Mems for Biomedical Applications (Woodhead Publishing Series in Biomaterials) Life-Enhancing Plastics: Plastics and Other Materials in Medical Applications (Series on Biomaterials and Bioengineering) Shape Memory Polymers for Biomedical Applications (Woodhead Publishing Series in Biomaterials) Microfluidic Devices for Biomedical Applications (Woodhead Publishing Series in Biomaterials) Handbook Of Biomaterials Evaluation: Scientific, Technical And Clinical Testing Of Implant Materials, Second Edition Linne & Ringsrud's Clinical Laboratory Science: Concepts, Procedures, and Clinical Applications, 7e Clinical Application of Neuromuscular Techniques, Volume 1: The Upper Body, 2e (Clinical Applications of Neuromuscular Techniques) Practical Clinical Hypnosis: Technique and

Applications (Scientific Foundations of Clinical Counseling and Psychology) Clinical Epidemiology: Principles, Methods, and Applications for Clinical Research Clinical Ethics: A Practical Approach to Ethical Decisions in Clinical Medicine, Seventh Edition (LANGE Clinical Science)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)