

Biomaterials Science: An Introduction to Materials in Medicine, Second Edition, 2004

Edited by

Buddy Ratner, University of Washington, Seattle

Allan Hoffman, University of Washington, Seattle

Frederick Schoen, Brigham and Women's Hospital and Harvard Medical School, Boston, MA,

Jack Lemons, School of Dentistry and Medicine, University of Alabama, Birmingham

Description

“This second edition of Biomaterials Science leads the field by providing a balanced, insightful view of biomaterials. Contributions from pre-eminent researchers and practitioners from diverse academic and professional backgrounds have been integrated into a cohesive curriculum which includes pertinent principles of cell biology, immunology and pathology focusing on the clinical uses of biomaterials as components of implants, devices, and artificial organs, and their uses in biotechnology. The materials science and engineering of synthetic and natural biomaterials and the characterization of their physical, chemical, biochemical and surface properties, and mechanisms and evaluation of interactions with tissue, are also addressed in detail” (*Biomaterials Science: An Introduction to Materials in Medicine, Second Edition, 2004*)

Bibliographic & ordering Information

Hardbound, ISBN: 0-12-582463-7, 864 pages, publication date: 2004

Imprint: ACADEMIC PRESS

To order your copy of the book, please visit: <http://books.elsevier.com/bioengineering>

Key Features of *Biomaterials Science*

- “Provides comprehensive coverage of both principles and applications of all classes of biomaterials
- Integrates concepts of biomaterials science and biological interactions with clinical science and societal issues including law, regulation and ethics
- Integrates the scientific and clinical ideas surrounding biomaterials with societal issues including law, regulation and ethics.
- Discusses successes and failures of biomaterials applications in clinical medicine and the future direction of the field
- Covers the broad spectrum of biomaterial compositions, including polymers, metals, ceramics, glasses, carbons, natural materials and composites”

(*Biomaterials Science: An Introduction to Materials in Medicine, Second Edition, 2004*)