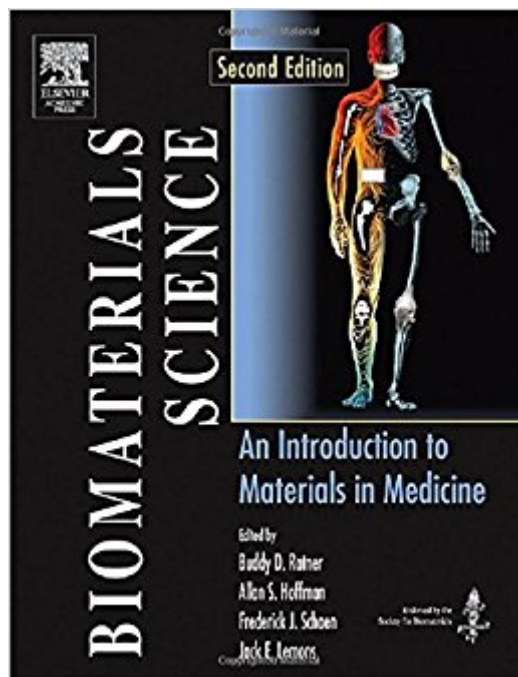




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Biomaterials Science: An Introduction To Materials In Medicine, Second Edition



Synopsis

The second edition of this bestselling title provides the most up-to-date comprehensive review of all aspects of biomaterials science by providing a balanced, insightful approach to learning biomaterials. This reference integrates a historical perspective of materials engineering principles with biological interactions of biomaterials. Also provided within are regulatory and ethical issues in addition to future directions of the field, and a state-of-the-art update of medical and biotechnological applications. All aspects of biomaterials science are thoroughly addressed, from tissue engineering to cochlear prostheses and drug delivery systems. Over 80 contributors from academia, government and industry detail the principles of cell biology, immunology, and pathology. Focus within pertains to the clinical uses of biomaterials as components in implants, devices, and artificial organs. This reference also touches upon their uses in biotechnology as well as the characterization of the physical, chemical, biochemical and surface properties of these materials. Provides comprehensive coverage of 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. Discusses successes and failures of biomaterials applications in clinical medicine and the future directions of the field. Cover the broad spectrum of biomaterial compositions including polymers, metals, ceramics, glasses, carbons, natural materials, and composites. Endorsed by the Society for Biomaterials.

Book Information

Hardcover: 864 pages

Publisher: Academic Press; 2nd edition (August 12, 2004)

Language: English

ISBN-10: 0125824637

ISBN-13: 978-0125824637

Product Dimensions: 11.2 x 8.7 x 1.6 inches

Shipping Weight: 5.8 pounds (View shipping rates and policies)

Average Customer Review: 3.7 out of 5 stars 16 customer reviews

Best Sellers Rank: #407,032 in Books (See Top 100 in Books) #33 in [Books > Textbooks > Medicine & Health Sciences > Alternative Medicine > Osteopathy](#) #56 in [Books > Medical Books > Medicine > Internal Medicine > Osteopathy](#) #63 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology](#)

Customer Reviews

"The new, expanded edition of Biomaterials Science provides a comprehensive coverage of this growing, multidisciplinary field for students of all backgrounds...The challenge to editors of a textbook of this nature is to encompass the traditional components alongside the new concepts and, indeed, to ensure that these different parts merge into one coherent story. In general, this has been done extremely well...if it has been the editors' objective to provide such a breadth of opinion, they have to be congratulated most sincerely, for the structure and composition of the text, which has 78 individual contributions, several appendices, and over 800 pages, is excellent and comprehensive...This book will undoubtedly fill a huge gap in the provision of authoritative texts in medical engineering. It is commended to all teachers of biomaterials science in whatever branch and clinical application they are engaged in. Indeed, it is the only such text that currently covers this area comprehensively. - Materials Today, Feb. 2005, David F. Williams, head of Department of Clinical Engineering at the University of Liverpool, UK

Praise from the previous edition:"...this outstanding text deserves nothing but praise...The editors have brought together 57 authors, all of whom are at the very least extremely knowledgeable in their field, and, at best, are the unquestioned leaders... There is no topic related to biomaterials that is not covered somewhere in this book... The quality of the writing, the arrangement of information and the figures are all outstanding." --POLYMER NEWS

"The most thorough textbook available, covering most aspects of biomaterials science provides the most up-to-date and in-depth information on biomaterial developments."--MRS Bulletin, January 2006

Completely revised and expanded update of the best-selling classic text/reference which defined an entire subject field.

Textbook is good and comprehensive, but the index and organization leaves a lot to be desired. If I were to buy this again I would definitely try to get the electronic version-I expect it would be searchable so the poor index wouldn't be a hindrance.

Good read

text book

Item as described.

plethora of information in this book! Professor suggested it as more of a reference book and it makes sense considering its enormous size. Definitely well organized and contained lots of information for any BME folk!

It's hard to cover EVERYTHING related to biomaterials in one book, but the topics that are covered in this book are done so in detail. I don't really like how the book is pretty much a collection of works, but I understand how this allows each topic to be covered by an expert in that field. Overall, I find this book to be very useful in all of my classes.

Great

The book was absolutely worth the price and true to it's description. Will definitely recommend this seller! Hoping to buy again.

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