



Biomaterials Science: An Integrated Clinical and Engineering Approach

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"This book is essential when designing, developing and studying biomedical materials... provides an excellent review of materials engineering for the biomedical field. ... This well presented book strongly insists on how the materials can influence patients' needs, the ultimate drive for biomedical engineering. ... [presents an] Interesting and innovative review from a patient focus perspective the book emphasizes the importance of the patients, which is not often covered in other biomedical material's books."

Fanny Raisin-Dadre, BioInteractions Ltd., Berkshire, England

Going far beyond the coverage in most standard books on the subject, **Biomaterials Science: An Integrated Clinical and Engineering Approach** offers a solid overview of the use of biomaterials in medical devices, drug delivery, and tissue engineering.

Combining discussion of materials science and engineering perspectives with clinical aspects, this book emphasizes integration of clinical and engineering approaches. In particular, it explores various applications of biomaterials in fields including tissue engineering, neurosurgery, hemocompatibility, BioMEMS, nanoparticle-based drug delivery, dental implants, and obstetrics/gynecology.

The book engages those engineers and physicians who are applying biomaterials at various levels to:

- Increase the rate of successful deployment of biomaterials in humans
- Lower the side-effects of such a deployment in humans
- Accumulate knowledge and experience for improving current methodologies
- Incorporate information and understanding relevant to future challenges, such as permanent artificial organ transplants

Using a variety of contributors from both the clinical and engineering sides of the fields mentioned above, this book stands apart by emphasizing a need for the often lacking approach that integrates these two equally important aspects.

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