



Foundations of Biomaterials Engineering (Hardback)

By Maria Cristina Tanzi, Silvia Fare, Gabriele Candiani

ELSEVIER SCIENCE & TECHNOLOGY, United Kingdom, 2019. Hardback. Condition: New. Language: English. Brand new Book. Foundations of Biomaterials Engineering provides readers with an introduction to biomaterials engineering. With a strong focus on the essentials of materials science, the book also examines the physiological mechanisms of defense and repair, tissue engineering and the basics of biotechnology. An introductory section covers materials, their properties, processing and engineering methods. The second section, dedicated to Biomaterials and Biocompatibility, deals with issues related to the use and application of the various classes of materials in the biomedical field, particularly within the human body, the mechanisms underlying the physiological processes of defense and repair, and the phenomenology of the interaction between the biological environment and biomaterials. The last part of the book addresses two areas of growing importance: Tissue Engineering and Biotechnology. This book is a valuable resource for researchers, students and all those looking for a comprehensive and concise introduction to biomaterials engineering.



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