



New Functional Biomaterials for Medicine and Healthcare (Woodhead Publishing Series in Biomaterials)

Elena P. Ivanova, Kateryna Bazaka, Roy J. Crawford

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New Functional Biomaterials for Medicine and Healthcare provides a concise summary of the latest developments in key types of biomaterials.

The book begins with an overview of the use of biomaterials in contemporary healthcare and the process of developing novel biomaterials; the key issues and challenges associated with the design of complex implantable systems are also highlighted. The book then reviews the main materials used in functional biomaterials, particularly their properties and applications. Individual chapters focus on both natural and synthetic polymers, metallic biomaterials, and bio-inert and bioactive ceramics.

Advances in processing technologies and our understanding of materials and their properties have made it possible for scientists and engineers to develop more sophisticated biomaterials with more targeted functionality. *New Functional Biomaterials for Medicine and Healthcare* provides an ideal one-volume summary of this important field that represents essential reading for scientists, engineers, and clinicians, and a useful reference text for undergraduate and postgraduate students.

- Provides a concise summary of the latest developments in key types of biomaterials
- Highlights key issues and challenges associated with the design of complex implantable systems
- Chapters focus on both natural and synthetic polymers, metallic biomaterials, and bio-inert and bioactive ceramics

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