



Surfaces and Interfaces for Biomaterials

By Pankaj Vadgama

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Given such problems as rejection, the interface between an implant and its human host is a critical area in biomaterials. **Surfaces and Interfaces for Biomaterials** summarizes the wealth of research on understanding the surface properties of biomaterials and the way they interact with human tissue.

The first part of the book reviews the way biomaterial surfaces form. Part Two then discusses ways of monitoring and characterizing surface structure and behavior. The final two parts of the book look at a range of *in vitro* and *in vivo* studies of the complex interactions between biomaterials and the body. Chapters cover such topics as bone and tissue regeneration, the role of interface interactions in biodegradable biomaterials, microbial biofilm formation, vascular tissue engineering and ways of modifying biomaterial surfaces to improve biocompatibility.

Surfaces and Interfaces for Biomaterials will be a standard work on how to understand and control surface processes in ensuring biomaterials are used successfully in medicine.

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Editorial Review

Review

“... explores the classification, production, and applications of biodegradable polymers. ... this comprehensive volume explores the different aspects of biodegradable polymers from fundamental issues to industrial applications, and would be highly useful for all the individuals working in the area of polymers. It may not only support research and development but may also be suitable for teaching.”

-John F. Kennedy, Parmjit S. Panesar, Chembiotech Laboratories, Institute of Research and Development, University of Birmingham Research Park, UK, in Carbohydrate Polymers, Vol. 64, 2006

About the Author

P. Vadgama is Director of the Interdisciplinary Research Centre in Biomedical Materials at Queen Mary, University of London.

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