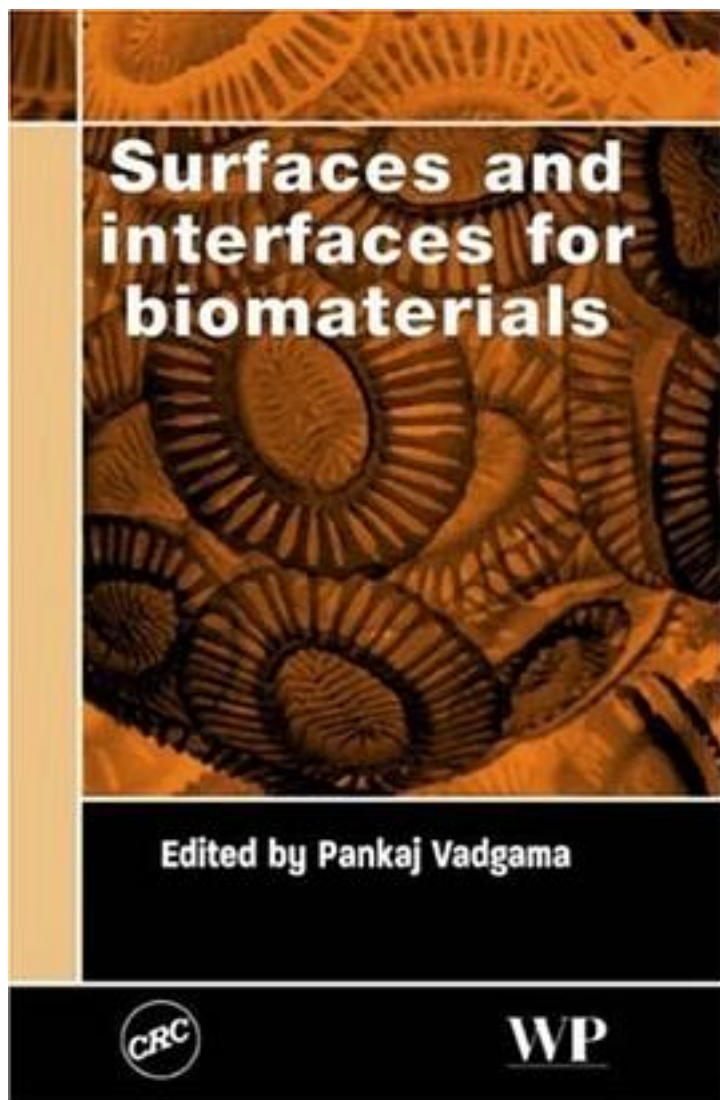


# Surfaces and Interfaces for Biomaterials



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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.

作者介绍:

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