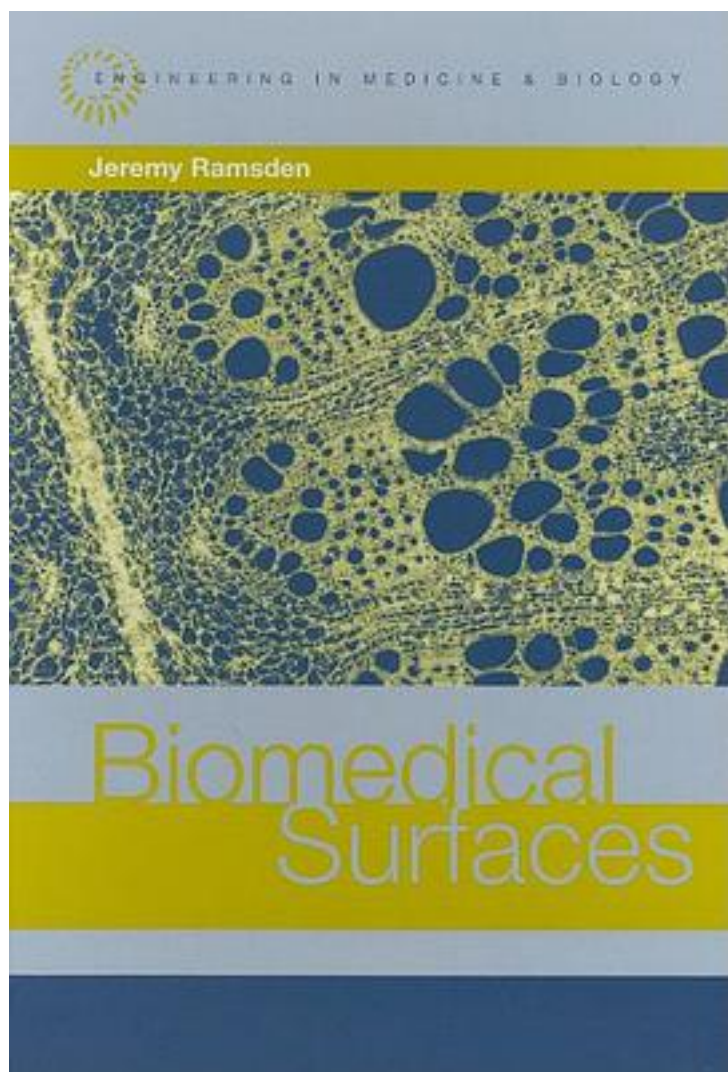


Biomedical Surfaces



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The success of artificial joints and other implants is greatly influenced by the constant interactions that take place between implant surfaces and living tissues. This first-of-its-kind design resource explores the processes and surface modifications that occur in bio/non-bio interfaces, and offers biomedical engineers state-of-the-art design, materials selection, and manufacturing guidance including nanotechnology breakthroughs that are ushering in a new era of implant capabilities. This book discusses biomedical surface attributes and addresses design issues involving materials in contact with biofluids, as in heart valves and dialysis machines. Professionals find details on implant lubrication and wear issues. The book also discusses how to predict biomaterial interactions with body tissues.

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