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Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing)



Synopsis

Detailing a wide range of techniques in wound healing and reconstruction, this reference describes the mechanisms and architecture of biological systems to formulate and design natural and synthetic compounds, degradable and non-degradable scaffolds, and targeted drug delivery devices. It offers strategies to control adhesive interactions, elicit specific cellular responses, and improve the biocompatibility, performance, and durability of prosthetic materials. Covering advances in the field, the book discusses the effect of topographical features on cell behaviors such as orientation, adhesion, migration, proliferation, and differentiation.

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