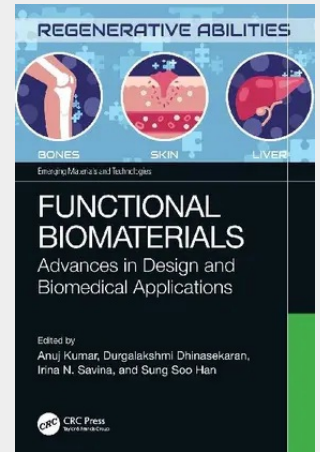


Functional Biomaterials

Advances in Design and Biomedical Applications

With the emergence of additive manufacturing, mass customization of biomaterials for complex tissue regeneration and targeted drug delivery applications is possible. This book emphasizes the fundamental concepts of biomaterials science, their structure–property relationships and processing methods, and biological responses in biomedical engineering. It focuses on recent advancements in biomedical applications, such as tissue engineering, wound healing, drug delivery, cancer treatments, bioimaging, and theranostics. This book: - Discusses design chemistry, modification, and processing of biomaterials - Describes the efficacy of biomaterials at various scales for biological response and drug delivery - Demonstrates technological advances from conventional to additive manufacturing - Covers future of biofabrication and customized medical devices This volume serves as a go-to reference on functional biomaterials and is ideal for multi-disciplinary communities such as students and research professionals in materials science, biomedical engineering, healthcare, and medical fields.

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