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Titolo	Calcium Phosphate Nanocoatings for Bone Regeneration [[electronic resource] /] / by Andy H. Choi, Besim Ben-Nissan
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Nota di contenuto	Introduction -- Why Surface Modification -- Calcium Phosphate -- Mechanical Integrity of Thin Films and Coatings and their Clinical Significance -- Coating Deposition Techniques -- Cellular Responses -- Enhancing Implant Osseointegration through Nanocomposite Coatings -- Calcium Phosphate Nanocoated Coralline Apatite.
Sommario/riassunto	This book provides in-depth assessment on the latest clinical advances in multifunctional calcium phosphate nanocoatings and its influence on bone regeneration and early healing following implantation. A greater emphasis will be placed on the use of nanocomposite coatings to deliver biological materials such as mesenchymal stem cells, growth factors, bone morphogenetic and extracellular matrix proteins, and pharmaceuticals such as simvastatin to improve and promote bone growth as well as reducing the timeframe needed for implant integration in both healthy and osteoporotic patients. The content of the book caters to clinical practitioners and researchers working in the field of biomaterials for bone regeneration.