



# Nanostructural Bioceramics: Advances in Chemically Bonded Ceramics

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## Nanostructural Bioceramics: Advances in Chemically Bonded Ceramics

Biomaterials are produced *in situ* and *in vivo* in the body using mainly hydration reactions, that is, reactions between phosphates, silicates or aluminates, and water. The nanostructural integration of these biomaterials in the body is controlled by six mechanisms. The biomaterial interaction with body liquid results in bioactivity and total closure of the contact zone between the biomaterial and hard tissue.

This book describes the new biomaterials based on nanostructural chemically bonded bioceramics and discusses their general and specific properties. It presents an overview of the nanostructural chemically bonded bioceramics, including their processing aspects, properties, integration with tissues, relation to other bioceramics and biomaterials, and nanostructural integration in different dental and orthopaedic applications. The book also describes the potential application areas for these new chemically bonded bioceramics.

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