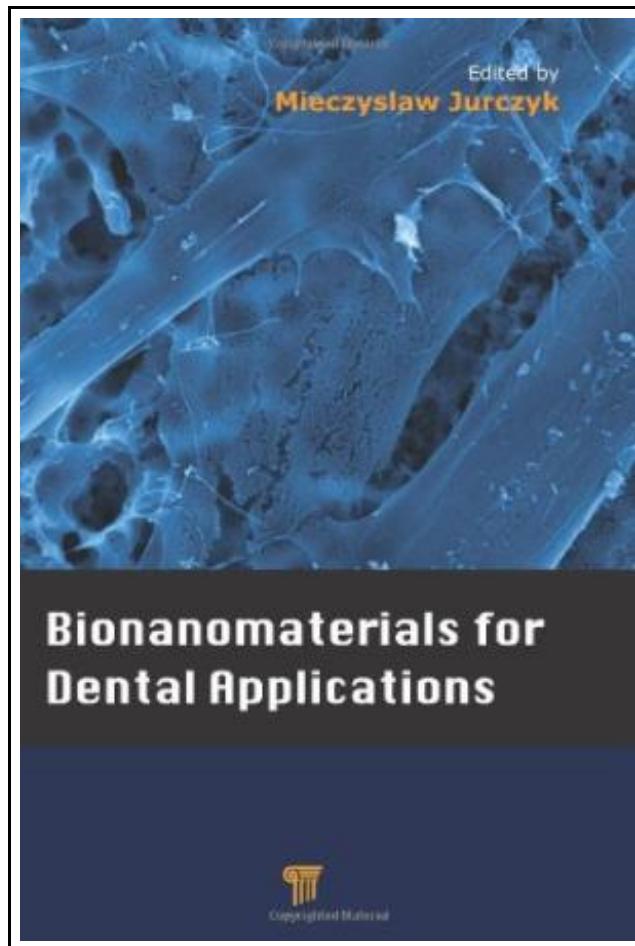


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Pan Stanford Publishing Pte Ltd, Singapore, 2012. Hardback. Book Condition: New. 236 x 154 mm. Language: English . Brand New Book. This book introduces readers to the structure and characteristics of nanomaterials and their applications in dentistry. With currently available implant materials, the clinical failure rate varies from a few percent to over 10 percent and new materials are clearly needed. Nanomaterials offer the promise of higher strength, better bonding, less toxicity, and enhanced cytocompatibility, leading to increased tissue regeneration. Mieczyslaw Jurczyk, director of the Institute of Materials Science and Engineering at the Poznan University of Technology in Poland, has drawn from work in his laboratory and elsewhere in Poland to show that nanomaterials have important biological applications including in the stomatognathic system consisting of mouth, jaws, and associated structures. The book is written from a materials science and medical point of view and has 13 chapters and about 400 pages. The book can be divided approximately into three sections: the first five chapters introduce nanobiomaterials, the next five chapters describe their dental applications, and the last chapters describe their biocompatibility. Chapter 3 is a compendium on metallic biomaterials such as stainless steel, cobalt alloys, and titanium alloys; bioactive, bioresorbable polymers; and composites and ceramic biomaterials. The top-down approach to producing nanomaterials such as high-energy ballmilling and severe plastic deformation, as well as Feynman's bottom-up technique of building atom by atom, are discussed in the next chapter. Subsequent chapters discuss each material in depth and point out how new architectures and properties emerge at the nanoscale. Chapter 8 is devoted to shape-memory materials, which now include not only NiTi but also polymers and magnetic materials. In order to improve bonding, nanomaterials can be used to synthesize implants with surface roughness similar to that of natural tissues. Chapter 9 is...

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