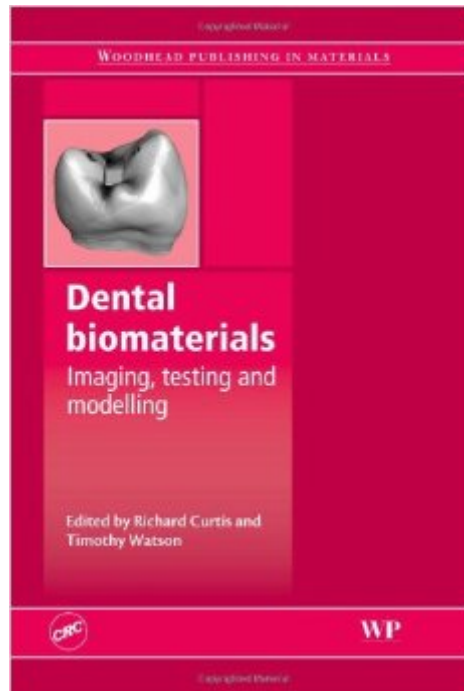


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Synopsis

Dental Biomaterials: Imaging, Testing and Modelling reviews the materials used in this important area, their performance and how such performance can be measured and optimised. Chapters review optical and electron microscopy imaging techniques for dental biomaterial interfaces. Specific materials such as dental cements, fibre-reinforced composites, metals and alloys are discussed. There is an analysis of stresses, fracture, wear and ageing in dental biomaterials as well as an evaluation of the performance of dental adhesives and resin-dentin bonds. Chapters also review ways of assessing the performance of dental handpieces, crowns, implants and prostheses. The book also reviews the use of computer models in such areas as bond strength and shape optimisation of dental restorations. With its distinguished editors and team of experienced contributors Dental Biomaterials: Imaging, Testing and Modelling researchers, materials scientists, engineers and dental practitioners with an essential guide to the use and performance of dental biomaterials. An essential guide to the use and performance of dental biomaterials Reviews optical and electron microscopy imaging techniques for dental biomaterial interfaces Analyses stresses, fracture, wear and ageing in dental biomaterials and evaluates the performance of dental adhesives and resin-dentin bonds

Book Information

Series: Woodhead Publishing Series in Biomaterials

Hardcover: 528 pages

Publisher: Woodhead Publishing; 1 edition (April 8, 2008)

Language: English

ISBN-10: 0749465565

ISBN-13: 978-1845692964

ASIN: 1845692969

Product Dimensions: 6.4 x 1.6 x 9.4 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

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