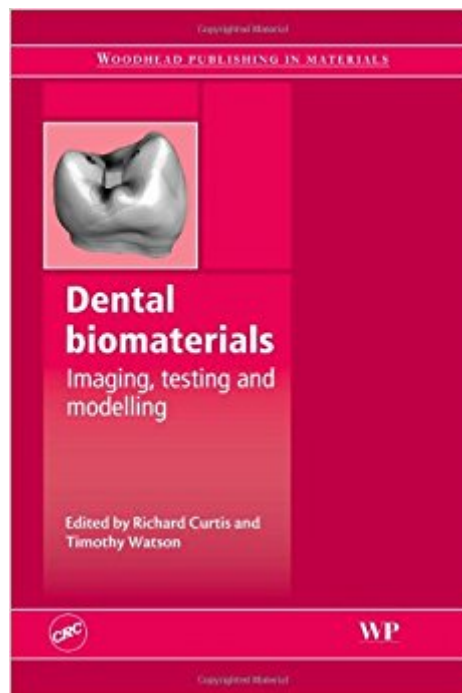




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Dental Biomaterials: Imaging, Testing and Modelling reviews the materials used in this important area, their performance and how such performance can be measured and optimised. Chapters review optical and electron microscopy imaging techniques for 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

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Dr Richard Curtis is a senior lecturer at King's College London Dental Institute. He is the Superplasticity Committee Chair for the Institute of Materials, Minerals, and Mining. He is also the UK coordinator for European superplastic forming meetings and a member of the Academy of Dental Materials. Professor Timothy F. Watson is a clinician with an international reputation in the field of the microscopical analysis of dental materials. He is head of the biomaterials group at King's College London Dental Institute. He is a member of the British Society for Dental Research, the International Association for Dental Research and the Royal Microscopical Society. Both are widely published in the area of dental biomaterials.

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