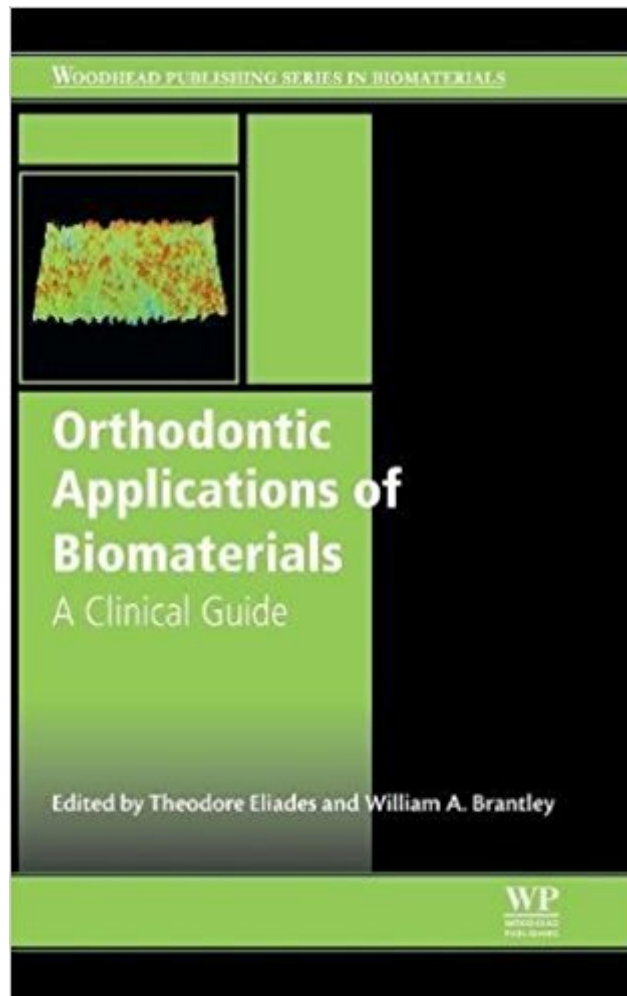




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# Orthodontic Applications Of Biomaterials: A Clinical Guide



## Synopsis

Orthodontic Applications of Biomaterials: A Clinical Guide reviews the applications of biomaterials and their effects on enamel preparation, bonding, bracket and archwire ligation, mechanotherapy, debonding, and long-term enamel structural, color, and surface effects. The book provides a step-by-step analysis of the phenomena occurring, their clinical importance, and their underlying cause without the use of complex mathematical or physical-chemical analyses, with the goal of providing a digestible evidence for the clinician. Serves as a reference source of the spectrum of biomaterials used in orthodontics. Presents the most current evidence of state-of-the-art methods of materials research. Provides substantiation for the effects occurring during the materials' uses.

## Book Information

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## Customer Reviews

Theodore Eliades is Professor and Director of the Department of Orthodontics and Pediatric Dentistry and Director of Research at the Dental Center, University Zurich, Switzerland; prior to that he was Associate Prof. at the Aristotle University of Thessaloniki (2005-2011). He graduated from the School of Dentistry, University of Athens, Greece and completed the Orthodontic postgraduate program of The Ohio State University. He holds 3 degrees in biomaterials: a Master's from Ohio State, a doctorate from the University of Athens, School of Medicine, and a PhD from the University of Manchester; he has also obtained certificates in human resources and leadership management. His research has generated over 160 papers and 35 book chapters, which have received 4,000 citations. He has also edited 9 textbooks, some translated in 5 languages [Orthodontic materials,

Thieme; Dental materials in vivo, Quintessence; Risk management in orthodontics, Quintessence; Bonding to dental hard tissues, Springer; Self-ligation in orthodontics, Wiley; Plastics in dentistry and estrogenicity, Springer; Research methods in Orthodontics. Springer; Stability, retention and relapse in Orthodontics, Quintessence in press; The orthodontic-periodontic patient, Quintessence, in press; Orthodontic postgraduate education: a global perspective, Thieme, in press). The diffusion of his research into fields associated with natural and engineering sciences led to his election as a Fellow at the Institute of Materials, Minerals and Mining (UK), and the Royal Society of Chemistry (UK), the first dentist admitted to these organizations. Prof. Eliades is affiliated with institutions in the US and Europe (Texas-Houston, Marquette, Manchester and Bonn), is the founding editor of the Journal of Dental Biomechanics, Associate Editor of the European Journal of Orthodontics, the American Journal of Orthodontics and Dentofacial Orthopedics, and Progress in Orthodontics, Editorial Board member in 5 and reviewer in 40 periodicals in the area of orthodontics, materials science and biomedical engineering. Work under his supervision has obtained the Bengt Magnusson prize of the International Association of Paediatric Dentistry, the WJB Houston poster award of the European Orthodontic Society, and the FEO award. He maintained a full-time practice in Athens from 1996-2005 and has been involved in part-time practice ever since. William A. Brantley is Professor and Director of the Graduate Program in Dental Materials, College of Dentistry, The Ohio State University, and is currently Interim Chair of the Division of Restorative Science and Prosthodontics. He also has a courtesy appointment as Professor in the Department of Biomedical Engineering. Before joining Ohio State in 1989, he was a faculty member at the Marquette University School of Dentistry from 1974 - 1989, where he became Professor and Chair of the Department of Dental Materials, Director of the Graduate Program in Dental Materials, and Director of Dental Graduate Studies. Professor Brantley currently has 183 publications in refereed journals and 17 publications in refereed conference proceedings. He has been co-editor of two books (both with Professor Eliades), and is author/co-author for 30 book chapters. Professor Brantley has served as mentor for 7 Visiting Scholars at Ohio State, advisor/co-advisor for 9 PhD students and 68 MS students, and member of a large number of additional MS and PhD thesis committees. He has presented lectures in a course on orthodontic materials to residents/graduate students in Orthodontics for four decades.

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