

Introduction to Dental Materials



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This textbook considers the properties and applications of dental materials and includes all the necessary basic science and clinical applications. Virtually all procedures in restorative dentistry make use of a dental material. Among these materials are metals, ceramics, polymers and composites, and their uses include filling of cavities and root canals and the making of impressions or replicas of teeth and tissues prior to the construction of crowns, bridges and dentures. All dental students need to acquire a working knowledge of both the properties and applications of the materials which they will use.

Comprehensive and readable coverage of the composition, handling, and application of the materials used by dentists in clinical practice. The necessary basic science is presented in a clear and understandable manner. Final section covers what the dentist needs to know about the laboratory materials used by technicians in the construction of dental prostheses - will help the reader to communicate effectively with the dental technician. Aims to give the reader the understanding of dental materials necessary to assess the potential of the many new materials which will appear during their clinical practice. "Clinical Significance" boxes highlight points of importance for day-to-day dental practice.

Updating of section on polyacid modified resin composites. Addition of section on retrograde root filling materials (MTA). Expansion of section on hydrophilic addition cured silicones. Revision of introduction to ceramics to consider the three modes of application of ceramics. More on CAD-CAM technology, especially alumina and zirconia core systems for crowns and bridges.

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