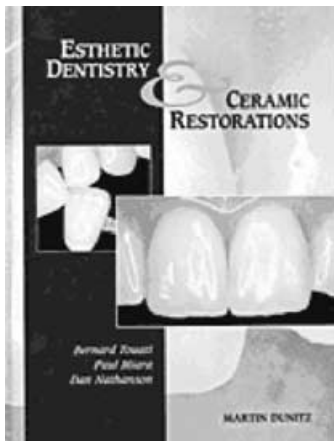


techniques would be attainable by most beginning practitioners. The beginning of this book seems to justify the use of the alternative types of implants presented. Assimilations are made from combinations of the use of blade and endosteal types of implants. Although blade implants have had their controversies, they have served as an important historical basis for what we know of the predictability of the "root form revolution." This book goes to extreme lengths to document marginal bone temperature elevations with the lateral preparation technique, and it would appear, to the current and popular, roughened and machined use of titanium in porous bone. Rather, the design of the implants by thread pitch and horizontal disc portions is purported to resist the problems inherent in the conventional Brånemark clone designs.

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Esthetic Dentistry and Ceramic Restorations

Bernard Touati, Paul Miara, Dan Nathanson. Martin Dunitz Publishers, Thieme Publishing, New York, NY 1999: ISBN 1-85317-159-X, 330 pp, 860 illustrations (mostly color); Price \$209, hardcover

Given today's emphasis on dental esthetics, prosthodontists and restorative dentists are expected to provide patients with a superior level of care. Patients of all generations increasingly desire whiter teeth, healthy smiles, and a

more youthful appearance. The restorative dentist needs to provide these services precisely and without compromise. This text's stated goal is to provide the reader with information on basic esthetic principles as well as clinical and laboratory procedures.

The American and European authors of this 12-chapter text approach their objective by presenting a broad compilation of clinical and scientific information in a clear and easy-to-follow format. Each chapter is presented in a logical fashion and is very well referenced. The book includes exceptional clinical photographs and step-by-step techniques for clinical procedures. The first chapter introduces the reader to the history of adhesive dentistry and bonded ceramic restorations. A good discussion of the development and mechanism of adhesive procedures is the focus of Chapter 2. Here, the reader is given an excellent explanation of adhesion to dentin and enamel with the use of SEM photographs, tree diagrams, and tables. The confusion of multigenerational adhesives and wet, moist, or dry dentin-bonding with current adhesive trends is nicely clarified.

Chapter 3 presents the various ceramic systems now available. The classification, composition, and physical properties of porcelain are discussed and compared. Information on the CAD-CAM systems is minimal, however, and the systems for Procera, Cerec 3D, and Zirconia FPDs are not mentioned. These exceptionally esthetic and predictable restorations are cutting-edge technology; inclusion of these materials would have made the text more complete.

Color and light transmission are beautifully presented in Chapter 4. The chapter is very well done and provides a comprehensive overview of the language of color, colorimetry, color perception, photoluminescence, and the technical aspects of color and light. Mention of the latest computer shade-matching systems would have been welcomed considering the current trend with these systems. Chapters 5 and 6 seem to follow each other in a very logical manner. The former discusses natural tooth color, staining, and fluorosis while the latter compares modalities available to treat discolored teeth. Historical, clinical, and scientific information are simply and thoroughly presented with outstanding case presentation photographs.

The transfer of esthetic information is reviewed in Chapter 7. The authors also provide background

information on key diagnostic aids necessary for proper case communication with the dental laboratory. Everything from intraoral photography to diagnostic casts and silicone templates are shown. The use of facebow registrations, vinyl indices, and occlusal analysis is equally important with anterior esthetics, but this diagnostic information is not discussed. Chapter 8 introduces the reader to shape and position of teeth with discussion of the golden proportion principle, pontic design, and alveolar socket preservation.

Ceramic laminate veneers are the topic for Chapter 9 and it is clear that this is the *pearl* of this textbook, and the talents of the authors readily shine in this presentation. Exquisite detail on porcelain veneer preparation design, benefits, and shortcomings of ceramic laminate veneers and step-by-step procedures are shown. Diagrams, clinical photos, and smile analysis tables delight the reader. The section on the placement of cervical finish lines and restorations margins, proximal surfaces, and contact areas is extremely helpful. Case failures and a table representing a 10-year analysis of, and reasons for, restoration failure are also included.

A comprehensive and detailed chapter on all-ceramic and metal-ceramic crowns follows the presentation of ceramic laminate veneers. Chapter 10 fully covers many of the parameters necessary for predictable and esthetic reconstruction.

Crown preparation design, periodontal considerations, forced eruption, and dowel-core concepts are nicely shown. Papillae preservation and ovate pontic design concepts are briefly discussed. Esthetic orthodontic concepts complete this chapter. The authors limit their discussion to lingual orthodontics with no mention of either ceramic labial brackets or the presently available and highly esthetic Invisalign technique.

All ceramic and resin onlays are discussed in Chapter 11. Case studies, along with scientific and clinical facts, guide the reader through the decision-making process for excellent restorative options. Ceramic onlay preparation design, material selection, and cementation are well presented. Chapter 12 is geared toward the more technically-oriented reader. Feldspathic, low-fusing ceramics, injection-molded, and zirconium–alumina laboratory techniques are reviewed in the final chapter and a detailed section of selective reading in topic sections completes the text.

In summary, the authors have presented a tremendous amount of valuable information in a clear and easy-to-follow style. The book is a fine resource for the practitioner who desires to understand the latest concepts in esthetic dentistry and ceramic restorations more clearly.

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