

Contents

In Memoriam v

Preface viii

Contributors x

① **Biologic Considerations** 1

Terry J. Fruits, Sharukh S. Khajotia, and Jerry W. Nicholson

② **Patient Evaluation and Problem-Oriented Treatment Planning** 37

William F. Rose, Jr, Carl W. Haveman, and Richard D. Davis

③ **Esthetic Considerations in Diagnosis and Treatment Planning** 68

J. William Robbins

④ **Color and Shade Matching** 79

Rade D. Paravina

⑤ **Caries Management: Diagnosis and Treatment Strategies** 93

Bennett T. Amaechi, J. Peter van Amerongen, Cor van Loveren, and Edwina A. M. Kidd

⑥ **Pulpal Considerations** 131

Thomas J. Hilton and James B. Summitt

⑦ **Nomenclature and Instrumentation** 154

James B. Summitt

⑧ **Field Isolation** 183

James B. Summitt

⑨ **Adhesion to Enamel and Dentin** 207

Lorenzo Breschi, Jack L. Ferracane, Milena Cadenaro, Annalisa Mazzoni, and Thomas J. Hilton

- 10 Direct Anterior Restorations 249**
Marcos A. Vargas, Cathia Bergeron, David F. Murchison, Joost Roeters, and Daniel C. N. Chan
- 11 Direct Posterior Esthetic Restorations 279**
Thomas J. Hilton and James C. Broome
- 12 Amalgam Restorations 324**
J. D. Overton, James B. Summitt, and John W. Osborne
- 13 Diagnosis and Treatment of Root Caries 369**
Bruce A. Matis, Carlos González-Cabezas, and Michael A. Cochran
- 14 Fluoride-Releasing Materials 380**
Deniz Cakir-Ustun, Nathaniel C. Lawson, and John O. Burgess
- 15 Class 5 Restorations 397**
J. D. Overton, Thomas J. Hilton, Mark L. LittleStar, and Clifford B. Starr
- 16 Natural Tooth Bleaching 414**
Van B. Haywood, Juliana da Costa, and Thomas G. Berry
- 17 Porcelain Veneers 448**
Jeffrey S. Rouse and J. William Robbins
- 18 Anterior Ceramic Crowns 474**
Jeffrey S. Rouse
- 19 Esthetic Inlays and Onlays 501**
Dennis J. Fasbinder, Gisele Neiva, and J. William Robbins
- 20 Cast Gold Restorations 524**
Patrice P. Fan, Richard Stevenson, and Thomas G. Berry
- 21 Restoration of Endodontically Treated Teeth 557**
James C. Broome and J. William Robbins