

# Contents

- 1 Einstein's "Splendid Light": Origins and Dental Applications, 1**  
*John G. Sulewski*
- 2 Laser Fundamentals, 18**  
*Laurence J. Walsh*
- 3 Laser-Assisted Nonsurgical Periodontal Therapy, 39**  
*Mary Lynn Smith and Angie Wallace*
- 4 Minimally Invasive Surgical and Regenerative Laser Periodontics and Laser-Assisted Oral Medicine, 64**  
*Mehrdad Favagehi, Lourdes Ann Christopher, and Robert A. Convissar*
- 5 Lasers in Implant Dentistry, 104**  
*Jon Julian and Thomas M. Bilski*
- 6 Photodynamic Therapy in Management of Periodontitis and Periimplantitis, 130**  
*Reza Fekrazad, Neda Hakimiha, and Farshid Vahdatinia*
- 7 Lasers in Fixed Prosthetic and Cosmetic Reconstruction, 150**  
*Thomas Bilski and Robert A. Convissar*
- 8 Laser Bleaching: Tooth Whitening and Mucosal Depigmentation, 167**  
*Manaf Taher Agha and Eugenia Anagnostaki*
- 9 Laser-Enhanced Removable Prosthetic Reconstruction, 182**  
*Robert A. Convissar and Robert A. Strauss*
- 10 Use of Lasers for Minor Oral Surgery in General Practice, 192**  
*Dan Q. Tran, Robert A. Strauss, and George Deeb*
- 11 Lasers in Major Oral and Maxillofacial Surgery, 214**  
*Robert A. Strauss and Michael Coleman*
- 12 Lasers in Restorative Dentistry, 233**  
*Steven Parker*
- 13 Lasers in Pediatric Dentistry, 253**  
*Lawrence Kotlow*
- 14 Lasers in Neonatal Dentistry—Tongue-Tie and Lip-Tie Release, 274**  
*Robert A. Convissar and Lawrence Kotlow*
- 15 Lasers in Orthodontics, 292**  
*Louis G. Chmura and Robert A. Convissar*
- 16 Lasers in Endodontics, 316**  
*Adam Stabholz, Joshua Moshonov, and Sharonit Sahar-Helft*
- 17 Photobiomodulation Therapy in Clinical Dentistry, 335**  
*Praveen R. Arany, Jan Tuner, and Per Hugo Beck-Kristensen*
- 18 Noninvasive Outpatient Laser Therapy for Adult Snoring and Apnea, 379**  
*Isabelle Fini Storchi*
- 19 Introducing Lasers Into the Dental Practice, 392**  
*David M. Roshkind, Robert A. Convissar, Thomas Bilski, and Kara Hershey*
- 20 Research in Laser Dentistry: Current and Novel Treatments and Theranostics, 411**  
*Sharaschandra R. Govindool, Philip A. Sales, and Praveen R. Arany*
- Appendix 1: Selected US FDA Marketing Clearances, 446**
- Appendix 2: Professional Societies Dedicated to the Use of Lasers in Medicine and Dentistry, 447**
- Appendix 3: Selected Journals of Interest to Dental Laser Practitioners, 448**
- Glossary, 450**
- Index, 455**