

Contents

Foreword	x
<i>Peter A. Hilger</i>	
Preface	xi
Contributors	xiii

I Principles of Facial Plastic and Reconstructive Surgery

1. Anatomy and Physiology of the Skin	3
<i>Richard Bennett</i>	
2. Wound Healing	15
<i>Edmund Fisher and John L. Frodel</i>	
3. Soft Tissue Techniques	27
<i>Ted A. Cook, Robert A. Guida, and Alan J. C. Burke</i>	
4. Skin Grafts and Local Flaps	41
<i>Rudy J. Triana Jr., Craig S. Murakami, and Wayne F. Larrabee Jr.</i>	
5. Scar Revision	59
<i>Mimi S. Kokoska and J. Regan Thomas</i>	
6. Synthetic Implants	67
<i>Kofi D. O. Boahene</i>	
7. Biological Tissue Implants	77
<i>Fred J. Stucker and Timothy S. Lian</i>	
8. Tissue Engineering	85
<i>G. Richard Holt and Jami Eidem</i>	
9. Tissue Adhesives	91
<i>Kristin K. Egan, David W. Kim, and Dean M. Toriumi</i>	
10. Lasers in Facial Plastic Surgery	99
<i>W. Russell Ries and Maria Wittkopf</i>	
11. Aesthetic Facial Proportions	119
<i>Marion B. Ridley and Steven M. VanHook</i>	
12. Computer Imaging for Facial Plastic Surgery	135
<i>Ira D. Papel</i>	

13. Photography in Facial Plastic Surgery	143
<i>Theda C. Kontis</i>	
14. Ethics in Facial Plastic Surgery	153
<i>Donn R. Chatham</i>	
15. Ambulatory Surgery	165
<i>William H. Beeson</i>	
 II Aesthetic Facial Surgery	
16. Aesthetic Facial Analysis	177
<i>R. James Koch and Matthew M. Hanasono</i>	
17. Anesthesia in Facial Plastic Surgery	189
<i>Mark V. Fletcher</i>	
18. Youthful Aging	199
<i>Edward Szachowicz III</i>	
19. Rhytidectomy	207
<i>Stephen W. Perkins and Shervin Naderi</i>	
20. Endoscopic Approach to the Brow and Midface	227
<i>H. Devon Graham III, Vito C. Quatela, and Paul Sabini</i>	
21. Surgical Approaches to the Midface Complex	243
<i>Keith A. LaFerriere and Richard D. Castellano</i>	
22. Upper Eyelid Blepharoplasty	259
<i>Norman J. Pastorek</i>	
23. Lower Eyelid Blepharoplasty	271
<i>Roger L. Crumley, Behrooz A. Torkian, and Amir M. Karam</i>	
24. Liposuction of the Face and Neck: The Art of Facial Sculpture	286
<i>Russell W. H. Kridel, Paul E. Kelly, and Richard D. Castellano</i>	
25. Dermabrasion and Chemical Peels	301
<i>Stephen H. Mandy and Gary D. Monheit</i>	
26. Ablative Laser Facial Skin Rejuvenation	321
<i>Paul J. Carniol, Christopher B. Harmon, and Mark M. Hamilton</i>	
27. Nonablative Facial Skin Rejuvenation	331
<i>R. James Koch</i>	
28. Neuromodulators and Injectable Soft Tissue Substitutes	337
<i>Corey S. Maas, Kenneth C. Y. Yu, and Kristin K. Egan</i>	
29. Complementary Fat Grafting	355
<i>Mark J. Glasgold, Samuel M. Lam, and Robert A. Glasgold</i>	
30. Botulinum Toxin for Facial Wrinkles	369
<i>Tanya K. Meyer and Andrew Blitzer</i>	
31. Aesthetic Mandibular Implants	379
<i>Harry Mittelman and Albert Jen</i>	
32. Aesthetic Facial Implants	389
<i>William J. Binder, Babak Azizzadeh, and Geoffrey W. Tobias</i>	
33. Hair Replacement Techniques	409
<i>Daniel E. Rousso, Sandeep Sule, Dow Stough, and Jeffrey M. Whitworth</i>	

34. Otoplasty	421
<i>Nathan E. Nachlas</i>	
35. Cosmetic Surgery of the Asian Face	435
<i>John A. McCurdy Jr.</i>	
36. Aesthetic Surgery of the Lip	459
<i>Brian P. Maloney</i>	
37. Advances in Aesthetic Dentistry	469
<i>Garrett B. Lyons Jr. and Roger P. Levin</i>	
 III Functional and Aesthetic Surgery of the Nose	
38. Facial Analysis of the Rhinoplasty Patient	477
<i>Kofi D. O. Boahene, Steven S. Orten, and Peter A. Hilger</i>	
39. Rhinology in Rhinoplasty	489
<i>Holger G. Gassner, David A. Sherris, and Oren Friedman</i>	
40. Philosophy and Principles of Rhinoplasty	507
<i>M. Eugene Tardy Jr., Dean M. Toriumi, and David A. Hecht</i>	
41. Open Rhinoplasty	529
<i>Peter A. Adamson and Jason A. Litner</i>	
42. Surgery of the Bony Nasal Vault	547
<i>Sam P. Most, Craig S. Murakami, and Wayne F. Larrabee Jr.</i>	
43. Surgery of the Middle Vault	555
<i>Ira D. Papel</i>	
44. Surgery of the Nasal Tip: Intranasal Approach	563
<i>Gilbert J. Nolst Trenité</i>	
45. Surgery of the Nasal Tip: Vertical Dome Division	577
<i>Robert L. Simons and John S. Rhee</i>	
46. Secondary Rhinoplasty	589
<i>Ira D. Papel</i>	
47. Rhinoplasty in Children	605
<i>Gilbert J. Nolst Trenité</i>	
48. Asian Rhinoplasty	619
<i>Yong Ju Jang</i>	
49. Complications in Rhinoplasty	639
<i>Daniel G. Becker</i>	
50. Reconstructive Surgery of the Nasal Septum	649
<i>Jan L. Kasperbauer, George W. Facer, and Eugene B. Kern</i>	
51. Prevention, Management, and Repair of Nasal Septal Perforation	663
<i>Russell W. H. Kridel and Hossam M. T. Foda</i>	
 IV Reconstructive Surgery of the Face and Neck	
52. Diagnosis and Treatment of Cutaneous Malignancies	675
<i>John D. Hendrix Jr. and Craig L. Slingluff</i>	
53. Minimally Invasive Options and Skin Grafts for Cutaneous Reconstruction	703
<i>David B. Horn and Whitney D. Tope</i>	

54. Local and Regional Cutaneous Flaps	721
<i>Stephen S. Park</i>	
55. Tissue Expansion in Reconstruction of the Head and Neck	745
<i>John F. Hoffmann</i>	
56. Musculocutaneous Flaps	757
<i>Donald J. Annino Jr., Russell S. Shu, and Daniel R. Gold</i>	
57. Microvascular Flaps	765
<i>Brian B. Burkey, Cecelia E. Schmalbach, and John R. Coleman Jr.</i>	
58. Mandibular Reconstruction and Osseointegrated Implants	795
<i>Eric M. Genden, Daniel Buchbinder, and Mark L. Urken</i>	
59. Major Nasal Reconstruction	807
<i>Shan R. Baker</i>	
60. Auricular Reconstruction	821
<i>Tom D. Wang</i>	
61. Lip Reconstruction	841
<i>Robert J. DeFatta and Edwin F. Williams III</i>	
62. Periocular Reconstruction	855
<i>Sara A. Kaltreider</i>	
63. Management of the Paralyzed Face	869
<i>J. Madison Clark and William W. Shockley</i>	
64. Craniofacial Approaches to the Anterior Skull Base	897
<i>Scott A. McLean and Lawrence J. Marentette</i>	
V Trauma	
65. Acute Soft Tissue Injuries of the Face	907
<i>Christian L. Stallworth and G. Richard Holt</i>	
66. Basic Principles of Craniofacial Bone Healing and Repair	919
<i>Craig D. Friedman</i>	
67. Principles of Facial Plating Systems	929
<i>Peter D. Costantino, Monica Tadros, and Matthew Wolpoe</i>	
68. Applications of Bone Plating Systems to Facial Fractures	945
<i>Robert M. Kellman</i>	
69. Orbitozygomatic Fractures	965
<i>Lisa E. Ishii, Patrick J. Byrne, and Robert B. Stanley Jr.</i>	
70. Frontal Sinus and Naso-Orbital-Ethmoid Complex Fractures	977
<i>E. Bradley Strong</i>	
71. Le Fort Fractures (Maxillary Fractures)	991
<i>Timothy D. Doerr and Robert H. Mathog</i>	
72. Mandibular Fractures	1001
<i>Jaime R. Garza</i>	
VI Congenital and Pediatric Facial Plastic Surgery	
73. Embryology of the Head, Face, and Neck	1019
<i>George S. Goding and David W. Eisele</i>	

74. Craniomaxillofacial Deformities	1029
<i>Craig A. Vander Kolk, Benjamin S. Carson Sr., and Michael Guarnieri</i>	
75. Congenital Auricular Deformities	1043
<i>Robert O. Ruder</i>	
76. Evaluation and Management of Cleft Lip and Palate Disorders	1059
<i>Randolph B. Capone and Jonathan M. Sykes</i>	
77. Cleft Lip Rhinoplasty	1079
<i>John R. Coleman Jr. and Jonathan M. Sykes</i>	
78. Orthognathic Surgery	1095
<i>Jonathan M. Sykes</i>	
79. Classification and Management of Hemifacial Microsomia	1119
<i>Karin Vargervik</i>	
80. Velopharyngeal Inadequacy	1127
<i>Marshall E. Smith, Steven D. Gray, and Judy Pinborough-Zimmerman</i>	
Index	1143