Contents

SECTION 1 ♦ Essentials of Laparoscopy

1. Chronological Advances in Minimal Access Surgery 3
2. Laparoscopic Imaging Systems 9
3. Laparoscopic Equipment and Instruments 34
4. Sterilization of Laparoscopic Instruments 57
5. Anesthesia in Laparoscopic Surgery 63
6. Abdominal Access Techniques 75
7. Principles of Laparoscopic Port Position 99
8. Laparoscopic Dissection Techniques 109
9. Laparoscopic Tissue Approximation Techniques 127
10. Hand-assisted Laparoscopic Surgery 149
11. Tissue Retrieval Technique 157
12. Laparoscopic Port Closure Technique 165

SECTION 2 ♦ Laparoscopic General Surgical Procedures

13. Laparoscopic Cholecystectomy 177
14. Laparoscopic CBD Exploration 198
15. Laparoscopic Appendicectomy 208
16. Laparoscopic Repair of Inguinal Hernia 219
17. Laparoscopic Repair of Ventral Hernia 239
18. Laparoscopic Repair of Hiatus Hernia 255
19. Laparoscopic Repair of Duodenal Perforation 263
20. Laparoscopic Fundoplication 269
21. Laparoscopic Bariatric Surgery 283

22. Laparoscopic Splenectomy 302
23. Laparoscopic Management of Hepaticopancreatic Diseases 310
24. Diagnostic Laparoscopy 322
25. Laparoscopic Small Bowel Surgery 334
26. Laparoscopic Colorectal Surgery 340
27. Laparoscopic Adhesiolysis 376

SECTION 3 ♦ Laparoscopic Gynecological Procedures

28. Laparoscopic Sterilization 385
29. Laparoscopic Ovarian Surgery 392
30. Laparoscopic Tubal Surgery 403
31. Laparoscopic Management of Ectopic Pregnancy 411
32. Laparoscopic Surgery in Pregnancy: Precautions and Complications 417
33. Laparoscopic Management of Endometriosis 423
34. Laparoscopic Hysterectomy 430
35. Laparoscopic Myomectomy 445
36. Laparoscopic Management of Stress Incontinence 453
37. Minimally Invasive Sling Operation for Stress Incontinence 459
38. Laparoscopic Repair of Pelvic Organ Prolapse 470
39. Essentials of Hysteroscopy 481

SECTION 4 ♦ Laparoscopic Urology

40. Ureteral Injury and Laparoscopy 495
41. Laparoscopic Urological Procedures 509

SECTION 5 ♦ Pediatric Laparoscopy

42. Laparoscopic Pediatric Surgery 519

SECTION 6 ♦ Miscellaneous

43. Other Minimal Access Surgical Procedures 533

44. Minimal Access Bariatric Surgery 556

45. Complications of Minimal Access Surgery 564

46. Role of Training in Minimal Access Surgery 582

47. Minimal Access Robotic Surgery 591

48. Transanal Endoscopic Microsurgery 618

49. Future of Minimal Access Surgery 625

50. Troubleshooting and Checklist 629

Index 637