Contents

SECTION 1: RECONSTRUCTIVE SURGERY

1. Thromboembolic Disease 3
2. Fat Embolism 6
3. Acetabular and Femoral Osteotomies 8
4. Cement Pressurization 12
5. Radiolucent and Sclerotic Lines 16
6. The Charnley Prosthesis 20
7. Long-term Follow-up of Charnley Arthroplasties 24
8. Broken Wires and Nonunion of the Greater Trochanter 39
9. Metal-backed Cemented Acetabula 48
10. The Posterior Surgical Approach 50
11. Leg-Length Discrepancy 61
12. Hip Dislocation, Dislocated Total Hips and Acetabular Containment 64
13. Self-constrained Acetabular Components 68
14. Minimally Invasive Total Hip Arthroplasty 71
15. The Effect of Age in Total Hip Surgery 74
16. Factors Likely to Influence Success in Cemented Total Hip Surgery 78
17. The Effects of Material and Prosthetic Design 82
18. Bilateral Simultaneous Versus Staged Total Hips 85
19. The Titanium Total Hip Experience 89
20. Retrieved Titanium Implants 100
21. Acetabular Grafts 106
22. Augmentation: Impaction of Morsellized Bone 111
23. Noncemented Total Hip Prostheses 114
24. Hybrid Total Hip Arthroplasty 121
25. An Experimental Bone-Cement Hybrid Fixation Technique 125
26. Early Failure of a Series of Hybrid Total Hip Arthroplasties 130
27. Femoral Lysis 136
28. A Technique for the Prevention of Femoral Lysis in Cemented Total Hips 144
29. Acetabular Lysis 153
30. Late Onset of Thigh Pain 156

SECTION 2: SPECIFIC PATHOLOGICAL CONDITIONS

31. The Osteoarthritic Hip 163
32. The Acetabular Labrum 171
33. Acetabular Impingement 173
34. Destructive Osteoarthritis 174
35. Ankylosing Spondylitis 176
36. The Rheumatoid Hip 179
37. The Dysplastic Hip 185
38. Avascular Necrosis 204
39. Slipped Capital Epiphysis 216
40. Protrusio Acetabulum 221
41. Prosthetic Replacement for Neoplasms 225
42. Synovial Chondromatosis 230
43. Neuropathic Hip Joints 232
44. The Infected Hip 234
45. Conversion of Osteotomized Femurs 243
46. Conversion of Girdlestone Arthroplasties 248
47. Conversion of the Fused Hip 252
48. Revision of the Failed Femoral Components 256
49. Revision of the Failed Acetabular Components 268
50. Surface Replacement 276
51. Isoelastic Total Hip Prostheses 283
52. Metal-on-Metal, Ceramics and Bigger Prosthetic Heads 288
53. Ring Total Hip Prostheses 293
54. Modular Components 296
55. Wear of Total Hip Components 299
56. Special and/or Difficult Replacements 308
57. Vascular Injury 322
58. Peripheral Nerve Injury 324
59. Periprosthetic Fractures 326
60. The Broken Stem 332
61. Heterotopic Bone 335
62. Rehabilitation 339
63. Why So Many Total Hips... 341

SECTION 3: THE FRACTURED HIP

64. Acetabular Fractures 347
65. The Intertrochanteric Fracture 356
66. Interlocking Intramedullary Nail 369
67. Subtrochanteric Fractures 371
68. Femoral Head Fractures 374
69. The Femoral Neck Fracture 376
70. Nonunion of Femoral Neck Fractures 381
71. Femoral Endoprostheses 384
72. Bipolar Prostheses 391
73. Primary Total Hip 393
74. Rehabilitation 394

SECTION 4: ANNEXURES

75. Joint Replacement Registries—The Hurdles Ahead 399
76. The Hip Society 402
77. The International Hip Society 409

References *411*
Index *415*