Contents

SECTION I: PROSTHESIS

1. Introduction to Prosthesis 3
2. Incidence and Epidemiology 5
3. Rehabilitation of an Amputee 8
4. Problems in Stump 18
5. Immediate Postoperative Prosthetic Fitting 23
6. Prosthesis in Foot and Ankle Amputation 25
7. Prosthesis in Transtibial Amputation 29
8. Gait Analysis in Transtibial Amputees 38
9. Prosthesis in Knee Disarticulation 41
10. Prosthesis in Transfemoral Amputation 44
11. Gait Analysis in Transfemoral Amputees 49
12. Prosthesis in Hip Disarticulation 54
13. Indian Modification of Lower Limb Prosthesis 56
14. Prosthesis for Hand Amputation and Wrist Disarticulation 57
15. Prosthesis for Transradial Amputation 58
16. Prosthesis for Transhumeral Amputation 63
17. Prosthesis for Elbow and Shoulder Disarticulation 66
18. Congenital Limb Deficiency 67
19. Recent Advances in Prosthesis 71

SECTION II: ORTHOSIS

20. Introduction to Orthosis 75
21. Functions of an Orthosis 76
22. Prescription of Orthosis 78
23. Cervical Orthosis 79
24. Thoracolumbosacral Orthosis 85
25. Orthosis to Correct Spinal Deformities 91
26. Upper Limb Orthosis 98
27. Lower Limb Weight Relieving Orthosis 103

28. Lower Limb Orthosis 105
29. Foot Wear Modifications 116
30. Orthosis in Poliomyelitis 122
31. Orthosis in Hemiplegia 124
32. Orthosis in Nerve Injuries 126
33. Orthosis in Spinal Cord Injury 129
34. Orthosis in Rheumatic Conditions and Burns 132
35. Ambulatory Aids 133
36. Short Notes 137

Index 141