CONTENTS

1. Introduction **1–6**
Terminology *1*
Aims of Management in Hand Injuries *3*
Assessment of Injury *4*
Surgical Procedures/Options Available *4*

2. Debridement **7–8**
Method *7*

3. Healing by Secondary Intention **9–12**

4. Fasciotomy **13–17**
Signs and Symptoms *13*
Clinical Features *13*
Persistant Pain, that is Progressive and Unrelieved by Immobilization and Increased by Passive Stretching, is the Hallmark of a Developing Compartment Syndrome *13*
Other Investigations *14*
Treatment *14*

5. Free Skin Grafts **18–20**
Split Thickness Graft *18*
Full thickness Graft *20*

6. Vacuum-assisted Closure **21–22**

7. Local Flaps (Principles and Techniques) **23–107**
Principles and Techniques in Flap Coverage *23*
Rotation and Transposition Flap *23*
Lateral Digital Flap *27*
Advancement Flap *27*
Rhomboid Flap of Limberg *28*
Dufourmental Flap *30*
Dorsal Digital Advancement/Regression *31*
The Dorsal Reverse Adipofascial Flap for Fingertip Reconstruction *32*
Z-Plasty Techniques *35*
Simple Z-Plasty of Thumb Web Space *36*
Hueston Flap *38*
Souquet Flap *40*
V-Y Advancement *41*
Bilateral Kutler's V-Y Plasty *43*
Venkataswami-Subramanian Flap *45*
Palmar Bipedicle Advancement Flap *47*
Joshi's Dorsolateral Neurovascular Island Flap *49*
Palmar Digital Monopedicle Flap *52*
Distally Based Digital Island Flap *55*
Annular flap *58*
Local Flaps (Flaps From Adjacent Fingers/Hand/Forearm) *59*
The Cross-Finger Flap *59*
Classical Laterally Based Flap *59*
Distally Based Cross-Finger Flap *63*
Proximally Based Cross-Finger Flap (Flag-Flap Variant) *65*
Reverse Cross-Finger Flap *66*
Radial Sensory Nerve Innervated Cross-Finger Flap *68*
Innervated Cross-Finger Flap *71*

Dual Innervated Cross-Finger Flap *72*
Turkish Flap (C-Ring Cross-Finger Flap) *74*
Cross Finger Flap Over-Riding A Cross Finger Flap *75*
Flap on a Flap on a Flap *76*
Dorsal to Dorsolateral Coverage (Dorsal Middle Phalangeal Artery Flap) *80*
Results of Cross-Finger Flap *84*
Dorsal Metacarpal Artery-Based Flaps *85*
Flag Flap *85*
Kite Flap *87*
Dorsal Metacarpal Flaps: Distally Based 2nd Dorsal Metacarpal Artery Flap *92*
Variations Of Dorsal Metacarpal Artery/Flag Flap *95*
Reverse Ulnar Parametacarpal Artery Flap *96*
Thenar Flaps *97*
Reversed Radial Artery Forearm Flap (Chinese Flap) *100*
Ulnar Artery Forearm Flap *104*
Posterior Interosseous Artery Flap *105*

8. Distant Flaps **108–124**
Types *108*
Random Pattern Distant Flaps *108*
Reversed Deltopectoral Flap *108*
Deltopectoral Flap *111*
Groin flap *113*

9. Flaps Using Dead Bone as Graft **125–128**
Composite grafting *125*

10. Interesting Clinical Cases **129–140**
Case 1 129
Case 2 131
Case 3: Crushed hand with Extensive Devitalization *134*
Case 4: Crush injury of Middle, Ring and Little Finger *136*
Case 5 *137*

11. Amputations **141–158**
Indications *141*
Principles and Goals of Amputation *141*
Digital Tip Amputations *142*
Metacarpal Ray Amputation *143*
Reconstruction in Amputation *148*
Fillet Flaps *148*
Phalangization of Metacarpal by Web Space Deepening *149*
Phalangization of the Metacarpal Head (Modified) *150*
Pollicization of an Index Finger Stump *152*
The Gilles Cocked-Hat Flap *157*

12. Splints and Fixtures in Crush Injuries **159–163**
Splints *159*
JESS Fixatures *159*

13. Microvascular Techniques **164–166**
Indications *164*
Relative Contraindications *164*
Patient Selection *164*
Transport of Amputated Part/Preservation *164*
Instruments *164*
Surgeon Requirements *164*
Techniques *165*
Other Practical Methods *166*
Measures to Salvage a Failing Flap *166*

Bibliography *167–169*
Index *171-*