

Table of contents

Concepts	Cases
1 Background and methodological principles	
1 Osteosynthesis 3	
2 Concepts of fracture fixation 10	
3 Mechanical aspects of plate and screw fixation 21	
4 Development of internal fixators 31	
5 Methods and techniques in plate osteosynthesis 41	
6 Minimally invasive plate osteosynthesis (MIPO) 48	
7 Bibliography 54	
2 Surgical reduction techniques	
1 Aim of reduction 59	
2 Different types of surgical reduction 60	
3 Instruments and techniques 69	
4 Assessment of reduction 81	
5 Conclusions 85	
6 Bibliography 85	
3 Techniques and procedures in LISS and LCP	
1 The less invasive stabilization system (LISS) 87	
2 The locking compression plate (LCP) 125	
3 Bibliography 159	
4 Pitfalls and complications	
1 Implant-related problems 163	
2 Technical errors 164	
3 Pitfalls and complications during rehabilitation 171	
4 Suggestions for further reading 179	
	5 Shoulder girdle
	5.1 Clavicle 185
	5.2 Scapula 213
	6 Humerus
	6.1 Humerus, proximal 223
	6.2 Humerus, shaft 283
	6.3 Humerus, distal 331
	7 Radius and ulna
	7.1 Radius and ulna, proximal 365
	7.2 Radius and ulna, shaft 399
	7.3 Radius and ulna, distal 419
	8 Pelvic ring and acetabulum
	8.1 Pelvic ring and acetabulum 453
	9 Femur
	9.1 Femur, proximal 477
	9.2 Femur, shaft 515
	9.3 Femur, distal 559
	10 Tibia and fibula
	10.1 Tibia and fibula, proximal 622
	10.2 Tibia and fibula, shaft 684
	10.3 Tibia and fibula, distal 779
	11 Calcaneus
	11.1 Calcaneus 843