

Contents

List of contributors

Foreword

Preface

1	History of fracture treatment <i>Toby Gemmill</i>	1
2	Fracture classification and description <i>Gareth Clayton Jones</i>	7
3	Bone development and physiology <i>Russell Yeadon</i>	12
4	Biomechanical basis of bone fracture and fracture repair <i>Andy P. Moores</i>	20
5	Fracture healing <i>John Houlton</i>	32
6	Imaging of fractures <i>Gawain Hammond</i>	37
7	Preoperative assessment of the fracture patient <i>Ralph Abercromby</i>	49
8	Principles of fracture fixation <i>Rob Pettitt</i>	55
9	Orthopaedic instrumentation <i>Jonathan Pink</i>	65
10	Orthopaedic implants <i>Mike Farrell</i>	72
11	Basic surgical techniques <i>James Grierson</i>	88
12	Open fractures <i>Steve Bright</i>	106
13	Pathological fractures <i>Ignacio Calvo</i>	112
14	Bone grafts and alternatives <i>Gareth Arthurs</i>	120
15	Minimally invasive osteosynthesis <i>Antonio Pozzi and Stan Kim</i>	126
16	Non-surgical management of fractures <i>Jon Dyce</i>	142

17	The skull and mandible <i>Harry Scott</i>	149
18	The spine <i>Malcolm McKee</i>	166
19	The scapula <i>Rob Rayward</i>	188
20	The humerus <i>Steve Clarke</i>	198
21	The radius and ulna <i>Sarah Girling</i>	227
22	The pelvis and sacroiliac joint <i>Mark Bush</i>	257
23	The femur <i>Neil Burton</i>	276
24	The tibia and fibula <i>Steven J. Butterworth</i>	301
25	The carpus and tarsus <i>Alessandro Piras and Tomás Guerrero</i>	319
26	The distal limb <i>Mike Guilliard</i>	342
27	The patella, fabellae and popliteal sesamoids <i>Sorrel J. Langley-Hobbs</i>	353
28	Fracture disease <i>Carlos Macias</i>	363
29	Implant failure <i>Gordon Brown</i>	368
30	Osteomyelitis <i>Angus Anderson</i>	374
31	Complications of fracture healing <i>Bill Oxley</i>	386
	Index	398