Open Reduction And Internal Fixation Orif

Fractures of the Proximal HumerusSpringer

This title offers guidelines to avoid complications in the diagnosis, management, repair and rehabilitation of common, complex and multifaceted fractures of the shoulder girdle. It emphasizes critical issues in clinical and radiographic evaluation for optimal surgical outcomes. The text is also illustrated to clarify diagnostic, surgical and therap

It has been a pleasure to comply with requests to publish this book in English. During the intervening years, there has been little to add to our views as to the best management of acetabular fractures, but an additional chapter has been incorporated comprising recent findings in our patients and slight changes in emphasis on the indications for operations. Additionally, having recognised that one of the greatest difficulties in this method of treatment lies in the pre-operative assessment of the standard radiographs, we have prepared a short series of radiographs which the reader may find advantageous for study. We are grateful to Mr. Reginald Eison who has translated and revised the French edition. Considerable alteration of the text and the general presen tation was necessary in order to make the material palatable in English. Our thanks are due to our new publishers, Springer-Verlag, for their keen interest and skill. E. LETOURNEL R. JUDET Preface to the French Edition It is a long time since we first attempted surgical treatment of fractures of the acetabulum accompanied by displacement, with the aim of restoring perfect articulation. Such treatment demands an exact reconstitution of the anatomy of the acetabulum and pelvic bone. This volume comprises an account of our efforts to assess the place of open reduction and internal fixation of displaced fractures of the acetabulum. The principal aim is simple: the perfect restoration of the articular surface and the associated bony architecture.

Long considered the "go-to" reference for orthopaedic trauma surgeons and pediatric orthopaedic trauma surgeons, Green’s Skeletal Trauma in Children provides comprehensive, practical guidance on the management of traumatic musculoskeletal injuries in children and adolescents. The fully revised 6th Edition covers the latest techniques, procedures, outcomes measures, pearls and pitfalls, and rehabilitation advice for the modern management and understanding of skeletal trauma in children – all provided by "who's who" list of pediatric orthopaedic trauma experts. Includes updated, evidence-based information on the impact of trauma to the immature and growing skeleton with comprehensive coverage of incidence, mechanisms of injury, classifications, and treatment options and complications for fractures in all major anatomical regions. Employs a new succinct and clear format that emphasizes need-to-know material. Features practical, step-by-step videos online. Includes hundreds of high-quality line drawings, diagnostic images, and full-color clinical photos that facilitate learning and understanding of complex material. Includes separate chapters on key topics such as Nerve Injury and Repair in Children, Skeletal Trauma in Young Athletes, Nonaccidental Trauma, Anesthesia and Analgesia, and Rehabilitation of the Child with Multiple Injuries. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

Detailed and evidence-based, this text focuses on musculoskeletal pathology and injury with descriptions of current and practical rehabilitation methods. PATHOLOGY AND INTERVENTION IN MUSCULOSKELETAL REHABILITATION provides everything you need to create and implement rehabilitation programs for your patients with musculoskeletal disorders due to injury, illness, or surgery. Each intervention includes a rationale, pathology and related problems, stages of healing, evidence in literature, and clinical reasoning

considerations. This is the third volume of the new four-volume musculoskeletal rehabilitation series anchored by "Magee's Orthopedic Physical Assessment, 5th Edition." A companion CD with references and links to MEDLINE abstracts, provides easy access to the articles referenced in the text. Evidence-based content, with over 4,000 references, supports the scientific principles for rehabilitation interventions, providing the best evidence for the management of musculoskeletal pathology and injury. Over 150 tables and 250 boxes help organize and summarize important information, highlighting key points. Over 700 drawings, clinical photos, radiographs, and CT and MRI scans demonstrate and clarify important concepts. Trusted experts in musculoskeletal rehabilitation - David Magee, James Zachazewski, Sandy Quillen, plus more than 70 contributors - provide authoritative guidance on the management of musculoskeletal pathology and injury.

This pocket-sized, user-friendly text provides a simple guide for the treatment of common orthopedic fractures of the upper extremity, focusing on techniques, tips and tricks. It utilizes a case-based structure with great attention given to the specific steps required to obtain excellent outcomes while also pointing out pitfalls and ways to salvage intraoperative complications. The chapters are presented anatomically from shoulder to fingertips, beginning with clavicle fractures, acromioclavicular and sternoclavicular joint injuries and scapula fractures. The various types of fracture to the humerus, elbow, radius and ulna follow, with concluding chapters covering fractures and dislocations of the wrist and hand. Throughout the book, a consistent chapter format is followed, comprised of an introduction, clinical presentation and diagnosis, relevant radiology, management strategies, outcomes, and clinical pearls and pitfalls. Incorporating the most recent implants and operative techniques, Tips and Tricks for Problem Fractures, Volume I will be a timely and handy resource for orthopedic surgeons, fellows, residents and students.

For specialists and non-specialists alike, returning an athlete to pre-injury performance safely and quickly is uniquely challenging. To help you address these complex issues in everyday practice, Baxter’s The Foot and Ankle in Sport, 3rd Edition, provides focused, authoritative information on the examination, diagnosis, treatment, and rehabilitation of sports-related foot and ankle injuries – ideal for returning both professional and recreational athletes to full use and function. Provides expert guidance on athletic evaluation, sports syndromes, anatomic disorders, orthoses and rehabilitation, and more. Includes new and updated case studies and pearls for optimal use in the clinical setting. Features thoroughly revised content and enhanced coverage of stress fractures, as well as metabolic consideration in athletes. Includes new chapters on the disabled athlete, the military athlete, caring for the athlete as a team, foot and ankle exam, and biologics. Features a new, full-color design throughout and new videos available online. Shares the expertise of international contributors who provide a global perspective on sports medicine.

This book, which derives from an initiative of the Education Committee of The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), addresses all aspects of elbow arthroscopy. Anatomy is thoroughly introduced, referencing safe portals and describing techniques to minimize risk of complications. Subsequent chapters focus on the use of arthroscopy in a range of conditions, including osteochondritis dissecans, stiff elbow, epicondylitis, elbow instability, and elbow fractures. Guidance is provided on diagnosis and indications for arthroscopy, and arthroscopic technique is clearly detailed. A key chapter describes complications and how to avoid them. The authors are experts and pioneers in the field from North America, Australia, and Europe who have in common the ability to teach

complex procedures in a simple way. This book will be an invaluable aid for the developing surgeon and an excellent reference for the experienced surgeon.?

This series provides a clearly structured and comprehensive overview of fracture treatments based on the most recent scientific data. Each book in the series is organized anatomically, so the surgeon can quickly access practical aspects, examples, pearls and pitfalls. In this first volume in the series, fractures of the proximal humerus are examined with an overview of fracture morphology, injury pattern, preoperative considerations, conservative treatment, surgical management and postoperative care. Fractures of the Proximal Humerus is written by a group of experts from the Association for the Rationale Treatment of Fractures (ARTOF) who aim to provide an independent, unbiased summary of fracture treatments to improve clinical outcomes. Trauma and orthopaedic surgeons worldwide who are searching for current knowledge of new implants, therapeutic strategies and advancements will be able to quickly and accurately apply the information from this book to provide the best possible care for their patients.

The Manual of INTERNAL FIXATION is well known internationally as a standard work for every specialist dealing with osteosynthesis. Due to the many changes that have taken place, an international faculty of orthopaedic surgeons and traumatologists completely revised and expanded the manual. In its third edition the manual reflects the state of the art and is the necessary reference for every AO specialist.

Acetabular fractures in older adults are increasing in frequency and present unique challenges to the surgeons charged with their treatment. This text provides the clinician tools for deciding who is an operative candidate and reviews in detail the various surgical treatments available for management. Opening chapters discuss the scope of the problem, the functional status of older patients and the risks involved with any surgical approach. After a chapter discussing non-operative approaches to acetabular fractures, the remaining chapters present the various surgical techniques and include a critical assessment of the outcomes of these treatment choices. ORIF techniques for posterior and anterior wall and column fractures are followed by percutaneous treatment and total hip arthroplasty, both alone and in combination with ORIF. Presenting the most current strategies for these increasingly common injuries, Acetabular Fractures in Older Patients is an excellent resource for all orthopedic and trauma surgeons.

Purpose: To objectively identify which surgical approach provides the maximal exposure for subcapital, trans-cervical, and basicervical femoral neck fracture ORIF. Our hypothesis is that the Hueter approach provides maximum exposure.Methods: 20 fresh-frozen cadaveric hips were utilized to compare 4 different surgical approaches to the femoral neck (n=5 hips/approach): Watson-Jones, Smith-Peterson (with and without rectus release), and Hueter approach. Data was captured before and after rectus release for the Smith-Peterson approach to make the fourth group. After surgical

exposure, standardized and calibrated digital images were captured and analyzed using a computer software program to determine the %-area visualized. Three trained investigators separately assessed each specimen to determine visualization and ability of the surgeon to physically outline the subcapital and basicervical anatomical femoral neck regions and included the superior, inferior, and anterior halves. If the subcapital, and basicervical components could be visualized and palpated, the trans-cervical region could be accessed. Data were analyzed for significant (p

This textbook offers a comprehensive view of all aspects of minimally invasive plate osteosynthesis (MIPO). The second expanded edition includes the expert knowledge of AO surgeons from all around the world. It not only provides basic concepts and the latest clinical and basic scientific research, but guides the interested surgeon through the crucial steps of MIPO application in the different anatomical regions. Enhanced by clear photographs, x-rays, MRIs, CT scans, and detailed illustrations, the book comprises two sections: Section 1, Principles, covers the principles of MIPO surgery as well as education in MIPO. Section 2, Cases, encompasses all anatomical regions. For each region there is a comprehensive introduction covering general aspects of MIPO techniques regarding indications, preoperative planning, and positioning, before indirect and direct reduction and fixation techniques are presented. Case examples then allow the reader to follow each procedure in a thorough, step-by-step manner. Additional chapters on pediatric and fragility fractures, special indications, and implant removal conclude this second section. The main concept behind the MIPO technique is to deal with soft tissue and bone in a way that does not add additional trauma to the fracture site. The bone must be accessed through soft-tissue windows away from the fracture site. Direct reduction maneuvers, if needed, should be executed to leave only small footprints at the fracture area and reduce disturbance of fracture healing.

Thanks to an increasing life expectancy of our populations the number of elderly persons is steadily growing and will continue to do so. Among these, the rate of persons with illnesses and degenerative diseases is significant. The prevalence of osteoporosis is especially high in elderly women and leads to typical fracture patterns. Hip fractures, proximal humerus fractures, distal radius fractures and fractures of the vertebral column are the most common. In the last decade, we are confronted with a sharp increase of fragility fractures of the pelvis. Until now, there is no consensus on how to identify and classify these lesions and there are no guidelines for treatment and after treatment. In particular, there is no common view on which patients need an operative treatment and which technique of osteosynthesis should be used. This book fills the gap in available literature and gives a state of the art guide to the treatment of fragility fractures of the pelvis. With the sharp increase of these fractures and the lacking consensus, Fragility Fractures of the Pelvis will become indispensable for the physicians who take care of elderly patients with this pathology. Written by a team of expert opinion leaders, the aim of this book is to contribute to the scientific discussion in this area and to help

provide the optimal care for these patients.

Proximal Humerus Fractures includes everything the orthopedic surgeon needs to know about the clinical management of these common shoulder injuries. Although non-operative treatment techniques are addressed and can be used in less severe circumstances, this book focuses mainly on the current operative treatment techniques for proximal humerus and tuberosity fractures, malunions and nonunions, including open reduction, percutaneous pinning, locking plate and intramedullary nail fixation, and humeral head hemiarthroplasty and reverse shoulder arthroplasty. A chapter on complications associated with these types of fractures and their management is also included. Dedicated to a common musculoskeletal injury, especially in athletes and the elderly suffering from osteoporosis, Proximal Humerus Fractures will be a valuable resource to all orthopedic surgeons and practitioners of sports medicine.

This book details imaging in percutaneous musculoskeletal interventions. It describes in exhaustive detail the abilities and uses of imaging in guiding procedures ranging from biopsy and joint injection to management of pain and tumors. In addition, it documents the different indications for vascular interventions in musculoskeletal lesions and focuses on ultrasound-guided interventions.

After the publication of the AO book Technique of Internal Fixation of Fractures (Miiller, Allgower and Willenegger, Springer-Verlag, 1965), the authors decided after considerable discussion amongst themselves and other members of the Swiss AO that the next edition would appear in three volumes. In 1969, the first volume was published (the English edition, Manual of Internal Fixation, appeared in 1970). This was a manual of surgical technique which discussed implants and instruments and in which the problems of internal fixation were presented schematically without radio logical illustrations. The second volume was to be a treatise on the biomechanical basis of internal fixation as elucidated by the work done in the laboratory for experi mental surgery in Davos. The third volume was planned as the culminating effort based upon the first two volumes, treating the problems of specific fractures and richly illustrated with clinical and radiological examples. It was also to discuss results of treatment, comparing the results obtained with the AO method with other methods. The second and third volumes were never published. The second edition of the AO Manual appeared in 1977. It dealt in greater detail with the problems discussed in the first edition, although it still lacked clinical exam ples and any discussion of indications for surgery. Like the first edition, it was trans lated into many languages and was well received. Finally, after 22 years, the much discussed and much needed third volume has appeared.

Comprised exclusively of more than 20 clinical cases covering common fractures of and around the elbow, this concise, practical casebook will provide clinicians with the best real-world strategies to properly manage open and closed fractures, dislocations and nonunions of the distal humerus and proximal radius and ulna. Each chapter is a case that opens with a unique clinical presentation with associated radiology, followed by a description of the diagnosis, assessment and management techniques used to treat it, as well as the case outcome and clinical pearls. Cases included illustrate the surgical management of intra- and extra-articular fractures of the distal humerus, coronal shear, coronoid and olecranon fractures, the “terrible triad,” Monteggia fractures, and complications, among others. Pragmatic and reader-friendly, Fractures of the Elbow: A Clinical Casebook will be an excellent resource for orthopedic surgeons and sports medicine specialists confronted with these common injuries of the elbow.

This comprehensive book is more than a complete reference on knee fractures and associated injuries: it is also a decision-making and surgical guide that will assist trauma, knee, sports medicine, and total joint surgeons in planning and executing specific procedures for different traumatic conditions of the knee. Each chapter addresses a particular condition and its management, explaining the traumatic

mechanism and preoperative workup and then describing in detail the surgical steps, from patient positioning to the postoperative regimen. Guidance is also provided on complications and their management, and to complete the coverage, results from the relevant literature are described. The authors are world-renowned experts keen to share their knowledge and expertise regarding specific traumatic conditions of the knee. Both experienced surgeons and orthopedic residents will find this book to be an invaluable tool that will improve their practice when dealing with knee fractures.

This text provides a comprehensive overview of operative dictations in plastic, aesthetic, and reconstructive surgical procedures, which will serve as a valuable resource for residents, fellows, and practicing surgeons. The book provides step-by-step operative details regarding all indexed plastic surgery cases that a resident is expected to be thoroughly acquainted with for his or her daily practice and examinations. Each case is preceded by a list of common indications, covering most of the situations in which particular procedures will be used, as well as a list of essential steps. Operative Dictations in Plastic and Reconstructive Surgery will serve as a very useful resource for physicians dealing with, and interested in the field of plastic surgery. It will also provide the related data for the newly minted practicing plastic surgeons. All chapters are written by authorities in their fields and include the most up-to-date scientific and clinical information.

PEEK biomaterials are currently used in thousands of spinal fusion patients around the world every year. Durability, biocompatibility and excellent resistance to aggressive sterilization procedures make PEEK a polymer of choice replacing metal in orthopedic implants, from spinal implants and hip replacements to finger joints and dental implants. This Handbook brings together experts in many different facets related to PEEK clinical performance as well as in the areas of materials science, tribology, and biology to provide a complete reference for specialists in the field of plastics, biomaterials, medical device design and surgical applications. Steven Kurtz, author of the well respected UHMWPE Biomaterials Handbook and Director of the Implant Research Center at Drexel University, has developed a one-stop reference covering the processing and blending of PEEK, its properties and biotribology, and the expanding range of medical implants using PEEK: spinal implants, hip and knee replacement, etc. Full coverage of the properties and applications of PEEK, the leading polymer for spinal implants. PEEK is being used in a wider range of new applications in biomedical engineering, such as hip and knee replacements, and finger joints. These new application areas are explored in detail. Essential reference for plastics enginers, biomedical engineers and orthopedic professionals involved in the use of the PEEK polymer, and medical implants made from PEEK.

Cannulated Screw Fixation is the first volume of its kind to provide both the biomechanics of these screw systems as well as complete operative techniques. This book teaches the orthopaedic surgeon and resident all aspects of cannulated screw fixation from principles (biomechanics, design, materials, manufacturing) to clinical uses including anatomy, imaging techniques, advantages, complications and outcomes. This comprehensive text includes chapters written by well-known orthopaedists in their respective anatomical areas with material on preferred operating techniques and uses in more specialized clinical situations for both upper and lower extremities. Edited by pioneers in the development of the cannulated screw this volume is a "must have" for all orthopaedic surgeons and residents.

The Scaphoid brings together in one definitive reference every aspect of carpal scaphoid injury treatment. Featuring insights from pioneers in the field, its comprehensive coverage extends from standard open procedures to state-of-the-art percutaneous methods and mini-incision techniques.Each chapter covers a different procedure, beginning with a discussion of relevant

anatomical considerations, indications, contraindications, and potential outcomes. The expert authors then present step-by-step demonstrations of each surgical approach complemented by clearly labeled illustrations that help readers to visualize the specific procedure while reinforcing their understanding of the basic principles of scaphoid fracture fixation.Features Comprehensive information on arthroscopic bone grafting, vascularized grafts, salvage procedures, the various types of implants, and much more 600 vivid illustrations -- including 300 in full-color -- enhance the text Concise, narrated videos on an accompanying Thieme MediaCenter web page demonstrate procedures described in the book, including percutaneous, mini-open and arthroscopic assisted scaphoid screw insertion, volar and dorsal vascularized scaphoid bone grafts, and more This highly practical clinical reference is an indispensable resource for every resident, fellow, or clinician in hand surgery, orthopedic trauma surgery, or plastic surgery.

Comprised exclusively of nearly two dozen clinical cases covering fractures of the tibia, this concise, practical casebook will provide orthopedic surgeons with the best real-world strategies to properly manage injuries to the tibial shaft, plateau and pilon, as well as deformities, nonunions and bone loss. Each chapter is a case that opens with a unique clinical presentation, followed by a description of the diagnosis, assessment and management techniques used to treat it, as well as the case outcome and clinical pearls. Cases included illustrate different management strategies for Schatzker (I-VI) tibial plateau fractures, plates and screws for proximal tibia fracture, intramedullary nailing for midshaft and distal tibial fracture, and the use of Ex-Fix with open tibia and distal pilon fracture, in addition to Masquelet bone grafting and modified clamshell osteotomy for acute shaft fracture. Pragmatic and reader-friendly, Fracture of the Tibia: A Clinical Casebook will be an excellent resource for orthopedic surgeons confronted with various injuries to the shin.

During the past 30 years, the Study Group for the Problems of Osteosyn thesis (AO) has made decisive contributions to the development of osteo synthesis as a surgical method. Through close cooperation among special ists in the fields of orthopedic and general surgery, basis research, metallurgy, and technical engineering, with consistently thorough follow up, it was possible to establish a solid scientific background for osteosyn thesis and to standardize this operative method, not only for the more ob vious applications in fracture treatment, but also in selective orthopedics where hardly any problems relating to bone, such as those with osteoto mies can be solved without surgical stabilization. Besides the objective aim, the AO was additionally stimulated by a spirit of open-minded friendship; each member of the group was recruited according to his pro fessional background and position, his skills, and his talent for improvisa tion. Against this backdrop without even mentioning the schooling program well known throughout the world I should like to add some personal and general comments. This book is written for clinicians, instructing them how to perform osteo synthesis with special reference to plating in all its varieties and in strict accordance with the biomechanical and biological aspects and facts. From this point of view, the chapter on preoperative planning merits par ticular emphasis. Not only is it conductive to optimal surgery, it will also contribute to self-education and may found a school.

Fracture Management for the Small Animal Practitioner offers practical strategies and helpful approaches for managing fractures

in dogs and cats. • Contains all the information needed to successfully manage the most common fractures in dogs and cats • Emphasizes clinically oriented tips for treating fractures from experienced surgeons • Offers an abundance of color photographs to illustrate the techniques

The orthopedic problems and solutions described in this book are based on approximately 125,000 operations performed over 25 years at the Orthopedic Department, County Hospital, St. Gallen, Switzerland. The cases and x-ray series have been chosen from a collection of about 80,000 slides taken from 1960 until 2002. Although this book is not competing with the AO manuals and is not a text-book, readers should be familiar with the AO principles and the AO textbooks. It discusses selected fracture subjects, most of which, though not all, have already been outlined in former publications. It specifically addresses specialists in orthopedic surgery, especially in trauma care, rather than 'beginners'. The solutions to problems given here vary somewhat from the 'AO gospel'.

Part of the practical, highly illustrated Operative Techniques series, this fully revised book from Drs. Emil H. Schemitsch and Michael D. McKee brings you up to speed with must-know surgical techniques in today’s technically demanding orthopaedic trauma surgery. Step-by-step, evidence-based guidance walks you through both common and unique cases you’re likely to see in your practice, including upper extremity, lower extremity, spine, pelvis, and acetabulum trauma. Practical features such as pearls of wisdom, key points, and potential pitfalls detailed by the authors in order to successfully manage patients with complex fracture patterns have all been reinforced in this new edition. Includes all-new chapters on Acromioclavicular Joint Injuries, Sternoclavicular Joint Open Reduction and Internal Fixation, Intramedullary Fixation of Clavicle Shaft Fractures, Use of the Reamer Irrigator Aspirator (RIA) for Bone Graft Harvesting, Fractures of the Posterior Tibial Plateau, Reverse Total Shoulder Arthroplasty for Proximal Humerus Fractures, and many more. Features high-quality line drawings, diagnostic and intraoperative images, and radiographs alongside expert technical guidance on instrumentation, placement, step-by-step instructions and more – all supported by best evidence. A bulleted, highly templated format allows for quick understanding of surgical techniques. Outlines positioning, exposures, instrumentation, and implants to equip you to be more thoroughly prepared for every procedure. Offers post-operative management guidelines and discussions of expected outcomes to help you avoid mistakes and offer quality, patient-focused care.

This volume in the Procedures in Reconstructive Surgery Series covers the key hand and upper extremity reconstruction techniques you need to stay on the cutting edge of this rapidly evolving specialty. Experts clearly explain how to perform procedures, sharing “tricks of the trade and clinical pearls so you can offer your patients superior results. Each book uses a concise, consistent format that complements the commentary. Master essential reconstructive surgical techniques with the comprehensive titles in this series! Provides real-life clinical details and clear visual guidance to the different operative steps with full-color illustrations and original artwork. Offers complete coverage of reconstructive techniques

provided by well-recognized international authorities to provide balanced and comprehensive perspectives. Discusses common pitfalls, emphasizing optimizing outcomes, to refine the quality of your technique.

In this highly illustrated book, the techniques of fracture reduction are clearly demonstrated using a step-wise approach with real time intra-operative photographs. Tips and tricks for how to avoid pitfalls are presented by a panel of experts and all upper extremity anatomical sites are included to give the readers a complete overview of how to perform reduction techniques for different fracture types. This book will be an essential guide for surgeons to utilise the available reduction instruments and preserve the vitality of the surrounding soft tissues and bone.

Lavishly illustrated, comprehensive in scope, and easy to use, the second edition of Operative Techniques in Orthopaedic Surgery guides you to mastery of every surgical procedure you're likely to perform – while also providing a thorough understanding of how to select the best procedure, how to avoid complications, and what outcomes to expect. More than 800 global experts take you step by step through each procedure, and 13,000 full-color intraoperative photographs and drawings clearly demonstrate how to perform the techniques. Extensive use of bulleted points and a highly templated format allow for quick and easy reference across each of the four volumes.

This quick-reference guide is the first book written specifically for the many third- and fourth-year medical students rotating on an orthopedic surgery service. Organized anatomically, it focuses on the diagnosis and management of the most common pathologic entities. Each chapter covers history, physical examination, imaging, and common diagnoses. For each diagnosis, the book sets out the typical presentation, options for non-operative and operative management, and expected outcomes. Chapters include key illustrations, quick-reference charts, tables, diagrams, and bulleted lists. Each chapter is co-authored by a senior resident or fellow and an established academic physician and is concise enough to be read in two or three hours. Students can read the text from cover to cover to gain a general foundation of knowledge that can be built upon when they begin their rotation, then use specific chapters to review a sub-specialty before starting a new rotation or seeing a patient with a sub-specialty attending. Practical and user-friendly, Orthopedic Surgery Clerkship is the ideal, on-the-spot resource for medical students and practitioners seeking fast facts on diagnosis and management. Its bullet-pointed outline format makes it a perfect quick-reference, and its content breadth covers the most commonly encountered orthopedic problems in practice.

This exhaustive reference includes new chapters and pedagogical features, as well as—for the first time—content on managing fragility factures. To facilitate fast, easy absorption of the material, this edition has been streamlined and now includes more tables, charts, and treatment algorithms than ever before. Experts in their field share their experiences and offer insights and guidance on the latest technical developments for common orthopaedic procedures, including their

preferred treatment options.

Offering authoritative guidance and a multitude of high-quality images, Facial Trauma Surgery: From Primary Repair to Reconstruction is the first comprehensive textbook of its kind on treating primary facial trauma and delayed reconstruction of both the soft tissues and craniofacial bony skeleton. This unique volume is a practical, complete reference for clinical presentation, fracture pattern, classification, and management of patients with traumatic facial injury, helping you provide the best possible outcomes for patients' successful reintegration into work and society. Explains the basic principles and concepts of primary traumatic facial injury repair and secondary facial reconstruction. Offers expert, up-to-date guidance from global leaders in plastic and reconstructive surgery, otolaryngology and facial plastic surgery, oral maxillofacial surgery, neurosurgery, and oculoplastic surgery. Covers innovative topics such as virtual surgical planning, 3D printing, intraoperative surgical navigation, post-traumatic injury, treatment of facial pain, and the roles of microsurgery and facial transplantation in the treatment facial traumatic injuries. Includes an end commentary in every chapter provided by Dr. Paul Manson, former Chief of Plastic Surgery at Johns Hopkins Hospital and a pioneer in the field of acute treatment of traumatic facial injuries. Features superb photographs and illustrations throughout, as well as evidence-based summaries in current areas of controversy.

Dr. James Wright, Associate Editor for the Journal of Bone and Joint Surgery, presents this landmark publication and novel approach to orthopaedic problems and solutions. This new, evidence-based reference examines clinical options and discusses relevant research evidence to provide you with expert recommendations for best practice. The consistent chapter format and featured summary tables provide "at-a-glance" access to the evidence-based literature and clinical options. Leading authorities contribute their expertise so you can apply the most effective clinical solutions to the persistent questions you encounter in your practice. You can even access the fully searchable and regularly updated text online! The result is an outstanding resource in clinical orthopaedics, as well as a valuable framework for translating evidence into practice. Features the completely searchable text online via www.expertconsult.com with periodic updates to available evidence, alerting you to changing evidence and guidelines. Covers common and controversial clinical problems that address the full range of "nagging" questions in your practice-such as the best treatment for displaced fractures of the distal radius or which DVT prophylaxis to use in joint replacement surgery. Provides a consistent chapter format that presents clinical questions with evidence-based graded recommendations for each treatment to help you make the best-informed decisions. Includes abundant summary tables that synthesize available literature and recommended clinical approaches for information "at a glance." Your purchase entitles you to access the website until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If

the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should online access be discontinued.