

## Ao Principles Of Fracture Management

Numerous advances in basic research, surgical techniques, practice, and patient care have revolutionized surgery over the last 60 years and made the field with its many subspecialties more diverse but also more complex. The surgical profession places high demands on surgeons who must often make the right split-second decisions. This can easily lead to misjudgments or mistakes. Learning From Failures in Orthopedic Trauma—Key Points for Success is the first book of its kind to give surgeons the opportunity to learn from failures without making them themselves. Based on the Spanish book *Errores en la Osteosíntesis* by Rafael Orozco Delclós, this publication offers real case examples that have been collected over the past 25 years. It is an essential and valuable resource as it specifically examines the reasons and responses to surgical error in real cases from different anatomical regions of the body, thus helping surgeons avoid the most frequent errors in osteosynthesis. The collection of more than 70 cases will help surgeons recognize and avoid common failures, start reflecting in action, present failures as positive learning opportunities, and bring that knowledge into their daily practice. The book is divided into 9 sections that analyze different types of failures. Key features are:

- Analysis of failures to help surgeons avoid making mistakes that lead to those errors
- More than 20 detailed and illustrative case-based chapters that analyze failures and offer tips to successfully prevent those mistakes
- More than 1,100 x-rays, clinical images, and illustrations

In the last quarter century, no one has played a stronger role in hand and wrist fracture management, especially using AO principles, than Jesse Jupiter. This long awaited book is the culmination of his work, along with other pioneers in the field, and presents all key developments in biomechanics, design, materials, and state-of-the-art AO techniques. Organized in a case-based format, the book focuses on fractures of the hand, scaphoid, and distal radius (including soft-tissue injuries). For each case, you'll review patient history, planning, approach, reduction, fixation, and rehabilitation, along with hundreds of full-color illustrations, intraoperative pictures, and x-rays. Along with detailed surgical techniques, you'll also find a wealth of guidelines on indications, choice of surgical approach, preoperative planning, and postoperative management. This is a book no orthopedic surgeon should be without.

This book has been written specifically for candidates sitting the oral part of the FRCS (Tr & Orth) examination. It presents a selection of questions arising from common clinical scenarios along with detailed model answers. The emphasis is on current concepts, evidence-based medicine and major exam topics. Edited by the team behind the successful *Candidate's Guide to the FRCS (Tr & Orth) Examination*, the book is structured according to the four major sections of the examination; adult elective orthopaedics, trauma, children's/hands and upper limb and applied basic

science. An introductory section gives general exam guidance and end section covers common diagrams that you may be asked to draw out. Each chapter is written by a recent (successful) examination candidate and the style of each reflects the author's experience and their opinions on the best tactics for first-time success. If you are facing the FRCS (Tr & Orth) you need this book.

Revision of: Brinker, Piermattei, and Flo's handbook of small animal orthopedics and fracture repair / Donald L. Piermattei, Gretchen L. Flo, Charles E. DeCamp. c2006. 4th ed.

Casts, Splints, and Support Bandages: Nonoperative Treatment and Perioperative Protection provides an extensive overview of the history, principles, methods, and techniques for applying a modern plaster or synthetic cast. The book comprises three sections: The Principles of Casting section outlines the basic principles of casting and splinting, the physical properties of cast materials, and socioeconomic considerations The Guidelines section explores nonoperative treatment for fractures, ligament, nerve, and soft-tissue injuries, overload injuries, and infections, in the upper and lower extremities and the spine Finally, the Techniques section provides step-by-step descriptions on 55 individual cast, splint, orthosis, and bandaging techniques, presented in high quality online video, and as stills with explanatory captions.

AOTrauma is proud to bring you this incredibly important and comprehensive text, which will be of interest to a wide range of medical professionals including trauma and orthopedic surgeons, specialist cast technicians, rural doctors, residents in training, and ORP. It is the ideal resource for any busy hospital or orthopedic/trauma practice.

The rigid internal fixation of mandibular fractures has become a widely accepted practice among European surgeons. The caution or even outright rejection voiced at a congress of the German Society of Maxillofacial Sur 1970s is no longer prevalent. Through a process of geons held in the late critical review and implementation, rigid internal fixation has become an established treatment modality at numerous centers, especially in Switzerland, the Federal Republic of Germany, and the Netherlands. By comparison, the method has received very little attention in North America and the Anglo-Saxon countries. By and large, surgeons in these countries continue to treat mandibular fractures by intermaxillary fixation, possibly supplemented by the use of interosseous wires. Many recent editions of surgical texts confirm this. Lately, however, there appears to be a surge of interest in methods of functionally stable internal fixation, especially in the United States of America, and AO/ ASIF instruction courses are increasingly in demand. This book is intended to aid course participants in their lessons and practical exercises and also to guide the clinical practitioner in the application of AO/ ASIF principles. Basel, September 1988 B.SPIESSL VII Acknowledgments I have received help from many sources. The colleagues of the past 20 years who have contributed to the case material upon which this manual is based are too numerous to credit by name.

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 radiological 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 experimental 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 examples and any discussion of indications for surgery. Like the first edition, it was translated into many languages and was well received. Finally, after 22 years, the much discussed and much needed third volume has appeared.

Edited by the premier surgeon on problems of the upper extremity, *Elbow and Forearm* is a concise yet comprehensive step-by-step guide to managing a wide range of fracture patterns, both simple and complex. All content is based on actual clinical cases featuring numerous highly instructive radiographs, color photos and illustrations. Distinguished by its accessible, easy-to-read format, this book skillfully covers in detail everything from functional anatomy, indications, fracture patterns and surgical exposures to contemporary implants and postoperative management. Handy as a rapid reference for trauma surgeons, hand and upper limb surgeons and residents in training, this book offers solid support in decision-making and puts information on reliable and tested techniques instantly at the surgeons fingertips.

During the past 30 years, the Study Group for the Problems of Osteosynthesis (AO) has made decisive contributions to the development of osteosynthesis as a surgical method. Through close cooperation among specialists in the fields of orthopedic and general surgery, basic research, metallurgy, and technical engineering, with consistently thorough follow up, it was possible to establish a solid scientific background for osteosynthesis and to standardize this operative method, not only for the more obvious applications in fracture treatment, but also in selective orthopedics where hardly any problems relating to bone, such as those with osteotomies 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 professional background and position, his skills, and his talent for improvisation. 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 osteosynthesis 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 particular emphasis. Not only is it conducive to optimal surgery, it will also contribute to self-education and may found a school.

While the last few decades have witnessed incredible leaps forward in the technology of energy production, technological innovation can only

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be as transformative as its implementation and management allows. The burgeoning fields of renewable, efficient and sustainable energy have moved past experimentation toward realization, necessitating the transition to more sustainable energy management practices. Energy Management is a collective term for all the systematic practices to minimize and control both the quantity and cost of energy used in providing a service. This new book reports from the forefront of the energy struggle in the developing world, offering a guide to implementation of sustainable energy management in practice. The authors provide new paradigms for measuring energy sustainability, pragmatic methods for applying renewable resources and efficiency improvements, and unique insights on managing risk in power production facilities. The book highlights the possible financial and practical impacts of these activities, as well as the methods of their calculation. The authors' guidelines for planning, analyzing, developing, and optimizing sustainable energy production projects provide vital information for the nations, corporations, and engineering firms that must apply exciting new energy technology in the real world. Shows engineering managers and project developers how to transition smoothly to sustainable practices that can save up to 25% in energy costs! Features case studies from around the world, explaining the whys and hows of successes and failures in China, India, Brazil, the US and Europe Covers a broad spectrum of energy development issues from planning through realization, emphasizing efficiency, scale-up of renewables and risk mitigation Includes software on a companion website to make calculating efficiency gains quick and simple

This book contains all the latest and best information on large animal osteosynthesis. The CD-ROM gives you easy access to the full AO ASIF Knowledge Base. With simple mouseclicks you can switch from text to figures to animation and to the AO ASIF teaching videos. This is ideal for preoperative planning, allowing you to develop a surgical strategy by working with standardized bones and instruments presented on the screen. The World Wide Web can be accessed via mouseclick, allowing you to scan all current literature. Updates on specific issues are presented on the internet at [www.aopublishing.com](http://www.aopublishing.com).

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.

The atlas format of Craniomaxillofacial Fractures clearly shows how to manage fractures to the head, face and jaw bones with rigid internal fixation. All fractures, from the simple to the most complex, are covered. The book is ideal for physicians from various specialties who diagnose, treat or refer craniomaxillofacial trauma. It describes for the first time the classical fracture types most commonly encountered and their representations by standard radiographs and diagrams. The AO system is prominently featured throughout the atlas.

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Orthopedic Trauma Care is a valuable resource for optimizing the care of orthopedic trauma patients. The book begins by presenting classification, wound and fracture healing, principles of fracture treatment, and information on the care of polytrauma patients. It closes with details on specific injuries and common complications and syndromes secondary to traumatic injuries.

Reflecting the recent dramatic advances in orthopedic trauma care and orthopedic implants, this highly practical surgical guide provides step-by-step descriptions of new, state-of-the-art techniques as well as in-depth information on classic, time-tested methods. Packed with hundreds of the high-quality, full-color illustrations for which AO books are known, the expert authors of this must-have text discuss operating room principles for different aspects of OR management for ORP (orthotic rehabilitation products) and AO principles of fracture management, and give advice on how to perform common procedures, with an emphasis on the use of surgical instruments. This book features comprehensive discussion of relative stability, biological fixation, minimally invasive techniques, the correct use of locking head screws and the locking compression plate; concise chapters designed to aid ORP and junior residents as they assist during surgery; and full-color illustrations that complement thorough descriptions of each step of the procedures. AO Techniques and Principles for the Operating Room is an invaluable tool for operating room staff and all residents starting their careers in orthopedic trauma care.

The AO Principles of Fracture Management has served many generations of surgeons around the world as the source of knowledge and essential reference in the field of orthopedic trauma surgery. The fundamental principles of fracture surgery have not changed in 60 years, but the biological and clinical knowledge, as well as technological advancements have extended new possibilities in surgical treatment and offered surgeons the opportunity to explore new ways of applying the AO principles. The new third edition of this book has been expanded to include new knowledge and explore state-of-the-art technology. It also addresses pressing challenges that face orthopedic surgeons today, such as the exponential rise in fragility fractures resulting from demographic changes and an aging population. The book aims to help surgeons to successfully rise to such challenges. Key features include: Contributions from more than 50 highly renowned surgeons, scientists, and medical professionals More than 2,100 high-quality illustrations and images, as well as access to over 250 video presentations New chapters on periprosthetic fractures, knee dislocations, fragility fractures and orthogeriatric care and additional information on operating room setup and planning Immediate access to AO's continually evolving range of online educational offerings via QR codes for mobile devices including animations, webcasts, webinars, lectures, AO Surgery Reference, AOSTART and more AOTrauma is pleased to bring you a new expanded, comprehensive, and updated edition of the AO Principles of Fracture Management for residents, fellows, course participants and faculty, Trauma and Orthopedic surgeons, and operating room personnel.

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Weitere Angaben Inhalt: The CD-ROM contains a collection of illustrations and photographs published in the "AO Principles of Fracture Management". More than 1000 figures are organized in an image database including figure captions. Image resolution: 72 dpi for screen presentation / 300 dpi for color reproduction in print.

The standard reference book in operative fracture care. For over forty years, the principles regarding fracture management have been taught by AO, and these textbooks are a carefully edited version of the knowledge with contributing authors from around the world providing guidance relating to the principles of fracture management. Please note that the German edition of this title will publish end of 2007.

Basic Optics: Principles and Concepts addresses in great detail the basic principles of the science of optics, and their related concepts. The book provides a lucid and coherent presentation of an extensive range of concepts from the field of optics, which is of central relevance to several broad areas of science, including physics, chemistry, and biology. With its extensive range of discourse, the book's content arms scientists and students with knowledge of the essential concepts of classical and modern optics. It can be used as a reference book and also as a supplementary text by students at college and university levels and will, at the same time, be of considerable use to researchers and teachers. The book is composed of nine chapters and includes a great deal of material not covered in many of the more well-known textbooks on the subject. The science of optics has undergone major changes in the last fifty years because of developments in the areas of the optics of metamaterials, Fourier optics, statistical optics, quantum optics, and nonlinear optics, all of which find their place in this book, with a clear presentation of their basic principles. Even the more traditional areas of ray optics and wave optics are elaborated within the framework of electromagnetic theory, at a level more fundamental than what one finds in many of the currently available textbooks. Thus, the eikonal approximation leading to ray optics, the Lagrangian and Hamiltonian formulations of ray optics, the quantum theoretic interpretation of interference, the vector and dyadic diffraction theories, the geometrical theory of diffraction, and similar other topics of basic relevance are presented in clear terms. The presentation is lucid and elegant, capturing the essential magic and charm of physics. All this taken together makes the book a unique text, of major contemporary relevance, in the field of optics. Avijit Lahiri is a well-known researcher, teacher, and author, with publications in several areas of physics, and with a broad range of current interests, including physics and the philosophy of science. Provides extensive and thoroughly exhaustive coverage of classical and modern optics Offers a lucid presentation in understandable language, rendering the abstract and difficult concepts of physics in an easy, accessible way Develops all concepts from elementary levels to advanced stages Includes a sequential description of all needed mathematical tools Relates fundamental concepts to areas of current research interest

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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 gold standard for the treatment of nonunions was set by Weber and Cech in the early 1970s. With this new book the Editors Ren K Marti and Peter Kloen provide a comprehensive update on the state-of-the-art treatment of nonunions. More than 130 case descriptions are included in the unique cases section; the core of this collection represents 40 years of Ren Martis personal experience in nonunion treatment, demonstrating the principle technique over technology. The editors have also carefully selected additional cases, contributed by several experts in nonunion treatment. Each case provides step-by-step descriptions of case history, preoperative planning, surgical approach, reduction, fixation, rehabilitation, and finally pitfalls and pearls. Hundreds of full-color pictures, precise illustrations, and x-rays demonstrate the significant steps in nonunion treatment. In the principles preceding the case presentations relevant information on evolution, basic science aspects, nonoperative treatment, bone graft, as well as infected nonunions is provided. The guidelines and solutions presented for the management of nonunions support orthopaedic and trauma surgeons worldwide. This book will serve as an invaluable aid for any orthopaedic or trauma surgeon who has to deal with the problem of pseudarthrosis. Norbert P Haas, President of the AO Foundation

Hear the authors discuss AO Principles of Fracture Management. Volume 1 focuses on the basic knowledge and the principles of fracture management, covering biomechanics, tools for preoperative planning, soft-tissue management, different methods of reduction and fixation, and implants. This volume also addresses new issues pertaining to internal/external fixation, damage-control surgery, minimally invasive surgery, and biotechnology. Volume 2 presents the management of specific fractures in different anatomic areas. A separate chapter is devoted to each area to discuss the assessment of injuries, surgical anatomy, preoperative planning, surgical treatment, and postoperative care. The authors also highlight common pitfalls and complications. There are now more than 2,000 high-quality illustrations that vividly demonstrate key concepts of management. The accompanying DVD provides the entire text from the books and instructional AO teaching videos that demonstrate techniques and reinforce important teaching points. Electronic bookmarks and keyword search functions simplify navigation of the DVD. Links to abstracts and references on the Internet enable the user to fully utilize the wealth of information provided in this multimedia resource. AO Principles of Fracture Management is an essential resource for orthopaedists, trauma surgeons, and residents in these specialties.

This book presents a guide to elastic stable intramedullary nailing (ESIN) in children. This surgical approach to managing pediatric fractures is explained in more than 30 illustrated cases with detailed step-by-step descriptions. The AO Teaching Video Special Edition - ESIN and animations are available for free online. Pediatric, orthopedic, and trauma surgeons performing pediatric fracture treatments will appreciate the wealth of information contained in this multimedia reference.

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With an increase in the longevity of the global population, care of the functional, cognitive, and physical health of older adults is essential. The dramatic demographic shift toward a growing aging population and an increase in osteoporotic fractures that has occurred over the last few decades especially in Western countries, has clearly shown the need for a comprehensive approach to treating fragility fractures by surgeons, geriatricians, and care staff. *Osteoporotic Fracture Care: Medical and Surgical Management* is the first book of its kind to offer a well-rounded and comprehensive resource on fragility fractures and orthogeriatric care designed to help new and experienced surgeons, geriatricians, physicians, and care personnel to better work together and develop interprofessional and interdisciplinary systems so as to treat patients more effectively. The book contains 44 chapters and is divided into three sections: "Principles," "Improving system of care," and the case-based part "Decision making and special considerations in surgical care." The book's key features are: In-depth insight into the needs of older adults and how to best improve patient care, patient outcome, and reduce system costs. Twenty detailed and illustrative case-based chapters giving the reader a wide array of options to improve the patient care and outcomes. More than 1,000 high-quality x-rays, clinical images, and illustrations. Print book comes with bundled ebook.

This is the first compendium of principles of using locking compression plates in fracture management. With more than 100 cases from world-leading surgeons, including the inventors of the technique, this book will guide orthopedic trauma surgeons, general orthopedists, and residents through applications of the internal fixator technique. Intraoperative photos and illustrations and an interactive DVD containing additional cases, animations, and videos makes this AO Manual an indispensable reference.

AO Principles of Fracture Management Thieme AO Principles of Fracture Management in the Dog and Cat Thieme

This new AO text is a step-by-step manual for treating fractures in the mandible, maxilla, spine, scapula, pelvis, humerus, radius, ulna, femur, patella, tibia and fibula, carpus, tarsus, metacarpal and metatarsal bones, and digits. Engaging current concepts of AO teaching with a particular focus on the biology of fracture healing, this book is designed to guide the surgeon through all the stages of fracture management, from preoperative evaluation and fracture planning, to anesthesia and pain management protocols, to fraction reduction techniques and surgical procedures. The authors also discuss considerations for rehabilitation. This authoritative resource comes with a DVD-ROM containing the entire book in digital form for easy search and convenient text-to-video launch of 64 AO teaching videos and 12 animations that demonstrate key surgical techniques. This text is a must for all practicing veterinary orthopedic surgeons.

This book charts the history of the worldwide introduction of an operative treatment method for broken bones, osteosynthesis, by a Swiss-based association, called AO. The success of the close cooperation between the AO's surgeons, scientists and manufacturers in establishing a complicated and risky technique as a standard treatment sheds light on the mechanisms of medical innovation at the crossroads of surgery, science and industry and the nature of modern medicine in general.

A practical, hands-on manual for surgeons of all levels on the management of foot and ankle trauma. The approaches are presented in a systematic, casebased format, ranging from simple to more complex cases. It provides step-by-step coverage of a wide range of basic to advanced techniques and procedures for the management of fractures, dislocations and soft tissue injuries of the foot and ankle. While a single case can be approached in a variety of ways, this book seeks to provide important guidelines which apply to most situations that may arise in foot and ankle injuries. It will be of value to anyone providing care for foot and ankle injuries. This book focuses on: General considerations in foot and ankle



surgery Clinical and radiographic evaluation Decision-making and options for nonoperative treatment Preoperative planning Surgical approaches Avoiding pitfalls Managing risks and complications Alternative techniques Postoperative rehabilitation Key features include: Contributions from 48 surgeons from 14 countries 59 detailed cases covering a comprehensive range of foot and ankle injuries More than 1,650 high-quality illustrations and images This exhaustive reference includes new chapters and pedagogical features, as well as—for the first time—content on managing fragility fractures. 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.

The authoritative reference to bone diseases and disorders of mineral metabolism, revised and updated Now in its ninth edition, *The Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism* offers an updated and comprehensive guide to bone and mineral health. Since it was first published 30 years ago, the *Primer* has become the leading reference on the topic. With contributions from noted experts, the text explores basic biological factors of healthy development and disease states and makes the information accessible for clinical interventions. The ninth edition provides concise coverage of the widest possible spectrum of metabolic bone diseases and disorders of mineral metabolism. The new edition of this invaluable reference expands coverage and includes the most recent developments in the field that help to strengthen its usefulness and ensure that the *Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism* maintains its place as the pre-eminent reference on bone and mineral health. This vital resource: Provides the most accurate, up-to-date evidence-based information on basic and clinical bone science Includes more than 10 new chapters and contributions from 300 authors from wide-ranging international research centers Captures the very cutting edge of research covering mineral homeostasis, osteoporosis and other metabolic bone diseases, skeletal measurement technologies, and genetics Presents a new companion website with useful supplementary materials at [www.asbmrprimer.com](http://www.asbmrprimer.com) Written for advanced students, clinicians, and researchers working in the field of bone health and disease, *Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism* is the definitive, one-stop reference for anyone working in the field of bone health and disease.

Traditionally, each specialty involved in craniomaxillofacial trauma and orthognathic surgery had its own areas of interest and expertise. This introductory textbook is different in that it presents the combined and focused expertise and competence of the different specialties on the entire craniofacial skeleton. The principles described in this textbook represent the evolution of craniomaxillofacial buttress reconstruction over the last 60 years. In addition to standard

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procedures, techniques representing recent surgical advances and new developments are introduced as well. This textbook not only provides an overview on current concepts of craniomaxillofacial trauma care and orthognathic surgery, but also helps to understand the complexity of the craniofacial skeleton and its related soft tissues for an efficient and successful reconstruction of the face following trauma and congenital deformities.

This textbook accumulates the latest global knowledge on periprosthetic fractures, including all relevant anatomical regions, surgical pitfalls, complex cases, and a brand new comprehensive Unified Classification System, (UCS) on periprosthetic fractures, combining the original Vancouver classification with the AO/OTA Fracture and Dislocation Classification. Carefully selected case studies illustrate and describe individual solutions for often problematic fracture situations, providing comprehensive information from experts globally. Orthopedic and trauma surgeons will be able to expand their knowledge regarding: Risk factors and assessment of periprosthetic fractures and the patient Options and choices of fracture fixations techniques as well as more complex revisions or reconstructive procedures More than 350 pages containing superb illustrations and images

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