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Since the publication of the first edition in 1959, Apley's System of Orthopaedics and Fractures has been an essential textbook for those seeking to understand the structure and function of the musculoskeletal system, its diseases, and its response to trauma. As the leading textbook of modern orthopaedics for over 50 years, this book is a testament to the late Alan Apley's skills as a teacher, and the care and forethought he brought to the presentation of the content. The current authors have developed and extended this foundation to produce a thoroughly modern textbook of orthopaedic surgery, bringing contemporary expertise while retaining the book's characteristic philosophy and approach. They are joined by a selection of expert contributors from around the world who provide added material on a wide variety of subjects— including radiology, open fractures, neuromuscular disorders, and inflammatory arthropathies. This ninth edition echoes its predecessors in following Apley's approach to the orthopaedic patient. As before, the work is divided into three sections: General Orthopaedics, Regional Orthopaedics, and Fractures and Joint Injuries. The material has been fully updated and revised and includes more than 1,000 illustrations. Apley's System's wide readership of practicing orthopaedic surgeons, postgraduate trainees and residents in orthopaedics and general surgery, A&E specialists, and physiotherapists is evidence of the authors' ability to instruct and inspire. The book is a truly fitting introduction to modern-day orthopaedics.

Osteoporosis affects over 28 million people in the United States alone, with an estimated annual cost of \$14 billion. As the general population continues to age, this figure will dramatically increase. This book provides a thorough overview of this burgeoning field.

The German edition of our book entitled "Operative Frakturen behandlung" by M. E. MÜLLER, M. ALLGÖWER and H. WILLENEGGER (Springer, Berlin . Göttingen . Heidelberg, 1963) has been out of print now for more than three years. We are planning a new edition which will deal with the collective experience of 14,000 new cases, all treated by internal fixation, and will include the newest developments in the field of internal fixation. However, it will be some time before this new edition can be published. Increasing demands for a description of the AO technique of internal fixation has stimulated us to publish this manual. In it we shall describe in a comprehensive but somewhat apodictic manner the principles and techniques of the AO methods of fracture treatment and reconstructive surgery, which in our hands, have stood the test of time. The book is written in a somewhat abbreviated style. It corresponds in subject matter to the teaching given at the AO courses in Davos, but deals with each subject more thoroughly. We have dispensed with pictures of the instruments, as these may be found in the Synthes Catalogue *. This manual should be regarded as the product of collective experience, containing new thoughts and new discoveries from basic research. In considering the risks of mistakes and dangers, we can only reiterate what we have already stated in "Technique of Internal Fixation of Fractures": "Open treatment of fractures is a valuable but difficult method which involves much responsibility.

Orthofix External Fixation in Trauma and Orthopaedics provides the scientific basis behind the success of the Orthofix system of external fixators, which are now widely used throughout the world. These devices are used in the treatment of serious fractures, limb lengthening and limb reconstruction. This book covers comprehensively the wide range of scenarios in which such devices can be used. Each topic is dealt with by the appropriate international expert in the field. Orthofix External Fixation in Trauma and Orthopaedics should be read by all those involved in elective or traumatic orthopaedics.

Offering expert, comprehensive guidance on the basic science, diagnosis, and treatment of acute musculoskeletal injuries and post-traumatic reconstructive problems, *Skeletal Trauma, 6th Edition*, brings you fully up to date with current approaches in this challenging specialty. This revised edition is designed to meet the needs of orthopaedic surgeons, residents, fellows, and traumatologists, as well as emergency physicians who treat patients with musculoskeletal trauma. International thought leaders incorporate the latest peer-reviewed literature, technological advances, and practical advice with the goal of optimizing patient outcomes for the full range of traumatic musculoskeletal injuries. Offers complete coverage of relevant anatomy and biomechanics, mechanisms of injury, diagnostic approaches, treatment options, and associated complications. Includes eight new chapters dedicated to advances in technology and addressing key problems and procedures, such as Initial Evaluation of the Spine in Trauma Patients, Management of Perioperative Pain Associated with Trauma and Surgery, Chronic Pain Management (fully addressing the opioid epidemic), Understanding and Treating Chronic Osteomyelitis, and more. Features a complimentary one-year subscription to OrthoEvidence, a global online platform that provides high-quality, peer-reviewed and timely orthopaedic evidence-based summaries of the latest and most relevant literature. Contains unique, critical information on mass casualty incidents and war injuries, with contributions from active duty military surgeons and physicians in collaboration with civilian authors to address injuries caused by road traffic, armed conflict, civil wars, and insurgencies throughout the world. Features important call out boxes summarizing key points, pearls and pitfalls, and outcomes. Provides access to nearly 130 instructional videos that demonstrate principles of care and outline detailed surgical procedures. Contains a wealth of high-quality illustrations, full-color photographs, and diagnostic images. Providing a comprehensive presentation of the diagnosis, evaluation and management of malunions, this generously illustrated text details the current principles, surgical techniques and approaches with these challenging clinical situations. Since each malunion can be fairly specific, the treatment regimens provide guidelines to effectively approach such problems. Opening with a brief overview of the principles of malunions, the remainder of the book is divided by anatomical area and provides evidence-based recommendations, case examples, and preferred treatment/algorithms for both the upper and lower extremities, including the clavicle, proximal and distal humerus, hand and wrist, proximal and distal femur, and tibia and ankle, as well as the pelvis and acetabulum. Specialized circumstances are also discussed, including periprosthetics and joint replacement. Although not every single treatment option is described for every single anatomical area and type of injury, *Malunions* is an excellent resource for orthopedic trauma surgeons, residents and students, not only for managing these common yet complex problems but also in preventing malunions from occurring by avoiding surgical causes and mitigating patient risk factors. New technologies, developments in implant design and advances in surgical technique have improved outcomes after joint replacement and decreased rate of complications. It is not a surprise that the number of arthroplasties increases steadily every year and nowadays more than one million patients undergo the procedure annually worldwide. This book is a sequel of a successful series dedicated to one of the fastest growing fields in orthopedics - arthroplasty. Aiming at dissemination of scientific research this book provides a profound overview of the recent evolution of technology and surgical techniques. New developments of implant design and current treatment strategies have been critically discussed by the contributing authors. The process of improving care for patients and standards of treatment requires straightforward access to up-to-date research and knowledge. The format of the publication allows easy and quick reference to shared ideas and concepts. We hope, that the current book will add significant contribution to the success of this endeavor. A number of books and research papers have been published on trauma and biomechanics. They have so far not been realistically integrated. The basic aim of this book is to present a unified approach between the engineering and dm-

ical professions. The available engineering analyses and mathematical models can be interlinked and glued together with the medical findings by means of surgeries and X-rays/scans. They can be translated into vastly developed computer programs predicting effects of plasticity, temperature, cracking, and crushing with and without muscles and other interlocking phenomenon. The available mathematical-cum-engineering model on trauma and bone mechanics are then linked to the finite element analysis and to a computer program in which provisions are made to cater for all possible eventualities and medical parameters. The problem encountered by surgeries can be easily incorporated into hybrid finite element computer programs such as PROGRAM ISOPAR used in this book. In all cases studied the surgical influences have been considered together with the bone material data for both the operational, nonoperational and overloading behaviour of the human body structure. In all circumstances the human body structure and its important elements were treated as composite. The bone–blood interaction has been incorporated in order to obtain realistic solutions. Material properties in three-dimension have always been considered in throughout in various investigations. Engineering analysis of trauma is being continuously developed taking into consideration the ever increasing changes in analytical, design, safety, and manufacturing techniques. The engineering advances in that direction are steadily gaining international acceptance in the wide sense of the medical profession.

The Anterior Cruciate Ligament: Reconstruction and Basic Science, 2nd Edition, by Dr. Chadwick Prodromos, provides the expert guidance you need to effectively select the right procedure and equipment, prevent complications, and improve outcomes for every patient. Written and edited by world leaders in hamstring, allograft, and bone-patellar tendon-bone (BTB) ACL reconstruction, this revised reference is a must-have resource for the full range of anterior cruciate ligament reconstruction techniques, plus fixation devices, rehabilitation, revision ACLR surgery, and much more! Covers the latest clinical and technical information on pain control, genetics and biologics, the use of ultrasound, and much more. Features dozens of new chapters that offer up-to-date information on pain control after ACLR, single vs. double bundle repairs, genetics and collagen type, all-inside techniques, biologics, pediatrics, ACL ganglion cysts, prognosis for ACLR success, allografts vs. autografts, and more. Provides the experience and insight of a "dream team" of ACL experts, including James Andrews on sports medicine, Frank Noyes on HTO and ACLR, and Andrew Amis on the benefits of the older femoral tunnel placement technique.

In this volume, 58 articles written by 78 distinguished European specialists address the major techniques to manage fractures, ligament injuries, congenital anomalies and other pathologies affecting the femur and knee. The surgical techniques are described step by step and illustrated by more than 550 drawings and photographs. Variations of the techniques are discussed, as well as complications and clinical results. Indications are provided when necessary for the choice of treatment.

Obtain the best outcomes from the latest techniques with help from a "who's who" of pediatric orthopaedic trauma experts! This companion to Browner et al.: Skeletal Trauma, 4th Edition presents practical, focused guidance on

managing traumatic musculoskeletal injuries in children and adolescents. It emphasizes the unique aspects of children's fractures in terms of epidemiology, mechanisms, management, and the challenges of treating the skeletally immature patient. State-of-the-art coverage explores growth and development, pathology, complications, child abuse, sports medicine...and almost every possible break from head to toe. A new chapter on sports-related trauma helps you to manage these increasingly prevalent injuries. And, a new, full-color page layout makes it easier to locate the answers you need quickly. Complete, absolutely current coverage of relevant anatomy and biomechanics • mechanisms of injury • diagnostic approaches • treatment options • and associated complications equip you to confidently approach every form of pediatric musculoskeletal trauma. Internationally recognized contributors include pediatric orthopaedists with trauma expertise as well as specialists in orthopaedic traumatology, providing expert guidance from the most trusted authorities in pediatric musculoskeletal trauma care. A unique emphasis on outcomes assessment in children's fractures helps you make the most valid clinical decisions. Over 800 high-quality line drawings, diagnostic images, and full-color clinical photos show you what to look for and how to proceed. An emphasis on problem-focused clinical judgment and state-of-the-art treatment options assists you in making the best use of the newest techniques. A new chapter on sports-related musculoskeletal injuries in children and adolescents helps you to manage the growing incidence of trauma resulting from recreational and team sports injuries. An all-new, more user-friendly full-color text design enables you to find answers more quickly, and more efficiently review the key steps of each operative technique.

This unique, case-based text offers a comprehensive discussion of pelvic and proximal femoral osteotomies in the pediatric population. Beginning with chapters on preoperative planning and radiologic evaluation of the adolescent hip, subsequent chapters are sensibly divided into three thematic sections, which use a consistent chapter format presenting the case history, relevant imaging, treatment goals, the management strategy, and clinical pearls and pitfalls. Part I describes the various pediatric pelvic osteotomies, including the Salter, Pol de Coeur, Tönnis, Pemberton, and San Diego approaches, among others. Pediatric proximal femoral osteotomies comprise part II, presenting the McHale procedure, varus and valgus osteotomies, Morscher osteotomy, and Shepherd's Crook deformity, to name just a few. The final section covers combined and miscellaneous osteotomies and procedures for the pediatric hip, such as osteochondroplasty, hip instability, hip arthrodesis, and SUPERhip and SUPERhip2 procedures for congenital femoral deficiency. Each chapter is generously illustrated and includes a handy table of indications and contraindications for the procedure described. In infancy, childhood and adolescence, the hip joint is very susceptible to abnormalities (congenital or acquired) that may lead to morphological alterations with potential sequelae, specifically pain and difficulty to ambulate, sit and perform daily activities. Restoring normal anatomy and biomechanics of the hip joint by various pelvic

and/or proximal femoral osteotomies remains the cornerstone in the management of these conditions. To this end, Pediatric Pelvic and Proximal Femoral Osteotomies will be an invaluable resource for all pediatric orthopedic surgeons, trainees and students both in the medical and paramedical field.

"This book has nine chapters of accurate, relevant, and, most important, high-yield orthopaedic facts, organized by the subspecialties"--Provided by publisher.

This fifth edition of the bestselling Allergens and Allergen Immunotherapy is now completely updated and revised to include subcutaneous, sublingual, and oral immunomodulator treatments of allergic disease. The redesigned book continues to provide comprehensive coverage of all types of allergens and allergen vaccines, giving clinicians the essential information they need to accurately make a diagnosis and offer the best possible treatments. The fifth edition contains many new and revised chapters—particularly in the fields of skin testing—and extensive updates to the sublingual and oral immunotherapy chapters. Key Features: Comprehensive – covers a vast range of allergens and allergen immunotherapies, providing all the necessary information in one volume Synoptic – supplies the essential information using figures and tables for instant access Up-to-date – includes the very latest information on subcutaneous, sublingual and oral allergen immunotherapies to offer the best possible treatments Reliable – provides basic information that all clinicians need to know about cross-reactivity among allergens and how it influences diagnosis and treatment, as well as the key information necessary to carry out any form of immunotherapy in a safe and effective manner Supplemental forms – contains template forms that can be used by the clinician in daily practice The fifth edition of this classic text continues to be an essential touchstone for any practitioner who conducts skin tests and prescribes subcutaneous, sublingual, and oral immunotherapies.

Each issue of Orthopedic Clinics offers clinical review articles on the most cutting edge technologies, techniques, and more in the field. Major topic areas include: adult reconstruction, upper extremity, pediatrics, trauma, oncology, hand, foot and ankle.

A proximal femur fracture is a hip fracture that occurs in the upper part of the thigh bone, next to the hip joint. It is a common condition particularly in elderly females, often related to osteoporosis, and is a major cause of morbidity and mortality in these patients throughout the world. This book is a practical guide to proximal femoral fractures, describing in detail, the treatment modalities and surgical procedures for different types of fracture. Beginning with an introduction to anatomy, epidemiology and the principles of treatment, the following sections describe the management and rehabilitation of fractures in different parts of the upper femur. Enhanced by more than 700 full colour images and illustrations, this concise, practical guide covers proximal femoral fractures in both paediatric and geriatric patients. Key

points Practical guide to treatment and rehabilitation of proximal femoral fractures Covers fractures in both paediatric and geriatric patients Includes more than 700 full colour images and illustrations

This edition presents today's most contemporary approaches for the management of fractures and other injuries. It details basic anatomy · mechanisms of injury · diagnosis · management via internal and external fixation · follow-up · complications and reconstruction. It presents state-of-the-art information on growth and development, pathology, complications, child abuse, anesthesia and analgesia for children's fractures and pediatric rehabilitation.

Cemented Total Hip Arthroplasty (THA) remains one of the most successful procedures in Orthopaedic surgery. It has become very clear that it is the surgical expertise, in particular the quality of the cementing technique, which will affect long-term outcome and success. It is the intention of this book to provide an up-to-date comprehensive assessment of the entire field of cemented THA. Special emphasis has been given to practice-relevant aspects: well-illustrated and detailed operative steps as a practical guideline, a basic science chapter and long-term outcome data are provided. Minimally invasive surgery, modern perioperative management and patient fast tracking are covered. A number of highly respected experts have contributed to this in-depth compilation of the "state of the art" in 2005. This book is written and intended for both, trainees and established arthroplasty surgeons who are dedicated to perform a well-cemented THA. This volume in the Core Knowledge in Orthopaedics Series equips you with the key concepts and clinical skills needed to excel in the subspecialty of adult reconstruction and arthroplasty. Inside you'll find concise, clinically focused coverage of the surgical techniques you need to know to obtain optimal patient management outcomes, along with relevant anatomy, biomechanics, limb salvage techniques, imaging, arthroscopy, and more. It's a perfect resource for training...board certification or recertification review...or everyday clinical reference! Apply the guidance in a logical fashion with coverage that progresses from describing commonly seen clinical problems to reviewing less frequently encountered conditions. Follow the most appropriate surgical management approaches. Assimilate the information easily through bulleted text, crisp artwork, clinical charts, tables, algorithms, and annotated key references.

Obtain the best outcomes from the latest techniques with help from a "who's who" of orthopaedic trauma experts! In print and online, you'll find the in-depth knowledge you need to manage any type of traumatic injury in adults. Major updates keep you up to speed on current trends such as the management of osteoporotic and fragility fractures, locked plating technology, post-traumatic reconstruction, biology of fracture repair, biomechanics of fractures and fixation, disaster management, occupational hazards of radiation and blood-borne infection, effective use of orthotics, and more. A DVD of operative video clips shows you how to perform 25 key procedures step by step. A new, full-color page layout makes it easier to locate the answers you need quickly. And now, for the first time, you can access the complete contents online,

for enhanced ease and speed of reference! Complete, absolutely current coverage of relevant anatomy and biomechanics, mechanisms of injury, diagnostic approaches, treatment options, and associated complications equips you to confidently approach every form of traumatic injury.

Bringing together the many considerations and complexities surrounding the management pediatric femur fractures, this up-to-date, comprehensive book discusses all aspects of these common but challenging injuries, where the treatment strategies are rapidly changing and which have the potential for complications and less than ideal outcomes. Because there may be multiple acceptable treatment approaches to a given fracture, we sought to review the full spectrum of therapeutic modalities. The entirety of the pediatric femur is considered, including femoral head and neck fractures, diaphyseal, physeal and epiphyseal fractures, and intra-articular fractures of the distal femur. Opening with chapters on development and anatomy as well as radiological evaluation, each fracture type-specific chapter discusses the indications and contra-indications, advantages and disadvantages, technical principles and published outcomes associated with each of the accepted techniques, from casting and traction to external and internal fixation. Concluding chapters discuss pathological fractures and the evaluation and management of complications. By channeling the expertise of a broad and accomplished group of authors with extensive experience in both researching and treating pediatric femur fractures, *Pediatric Femur Fractures* provides caregivers with the most complete and reliable resource when faced with any of the many types of this challenging injury.

Interlocking nailing is an orthopaedic technique involving the insertion of a metal rod into a bone to treat a fracture. Tanna's *Interlocking Nailing* is the latest edition of this comprehensive guide to the procedure, featuring completely revised and updated material. This edition of Tanna's *Interlocking Nailing* includes three new chapters, covering complications of nailing, locking, and implant removal, complications of internal fixation by proximal femoral nail, and subtrochanteric fractures. The book is enhanced by nearly 750 images and illustrations, and the accompanying DVD-ROM features three videos: *Ways to Improve Broken Implant*; *New Broken Implant Removal Bolt*; *How to Prepare Antibiotic Rods*.

Concise guide to misalignment of the kneecap, complications and treatment. Covers both conservative and surgical management procedures. Includes clinical photographs and high quality diagrams.

In this booklet, experts from across the world, including members of the ISAKOS Knee Arthroplasty Committee, offer clear, up-to-date guidance on all aspects of soft tissue or ligament balancing in primary total knee arthroplasty with the aim of enabling the reader to achieve optimal patient outcomes. After an introduction explaining the normal soft tissue condition in the native knee, surgical procedures are described, including techniques for the management of severe

deformity. The most striking feature of the booklet, however, is the many pages devoted to the accurate evaluation and clinical relevance of ligament balancing. Different techniques and devices for intraoperative soft tissue assessment are discussed, highlighting, for example, the use of gap-measuring devices or trial liners with load-bearing sensors to achieve more objective evaluation. Above all, special attention is devoted to the crucial issue of the impact of intraoperative soft tissue balance on postoperative results. In the closing chapter, very experienced surgeons introduce intraoperative troubleshooting in order to assist successful completion of arthroplasty.

Discusses orthopedic surgical technics, as well as apparatus, and after treatment of orthopedic procedures.

This book contributes to the enhancement of fundamental and practical knowledge in the treatment of fractures, healing disturbances and bone disorders with intramedullary nailing. It promotes this biological and mechanical outstanding technique for appropriate indications and ameliorate the standard of care for those patients, who can profit from intramedullary nailing.

Orthopedic trauma surgeons from all over the world, who work in the most different circumstances and with the most diverse technical and logistical equipment, will find this book to be an essential resource and guide for their daily practice with intramedullary nailing.

The third volume of the "Practice of Intramedullary Locked Nails" places a special focus on recent advancements in understanding the biology of fracture healing of long bones, the emerging technologies that further enhance the minimally invasive nature of closed treatment of fractures, and the availability of various surgical techniques in intramedullary fixation. The application of new technology in prevention of infection and application of the intramedullary fixation of fractures in pediatric and adolescent patients are also described. The contributors to this volume are from different well-known trauma centers and are pioneer surgeons in the development and practice of intramedullary locked nails.

Written by leading surgeons with expertise in performing osteotomies around the knee, this book is an essential reference for the current techniques in joint-preserving knee surgery. The book opens with a thorough discussion of physiology, pathophysiology, clinical evaluation, and imaging. It then describes the indications and basic principles of treatment and provides a detailed planning algorithm for high-tibial osteotomy. Separate chapters cover various clinical applications, addressing important topics ranging from the effects of osteotomies on cartilage pressure in the knee to management for failed osteotomies around knee. The book also discusses the latest technological developments in the field, such as computer-assisted navigation and the development of plate fixators. Features: Clinical insights and practical tips from experts in the field Detailed presentation of surgical techniques Numerous high-quality images and illustrations demonstrating key concepts Discussion of how to manage complications after high-tibial open-wedge osteotomy

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.

Winner of First Prize in Orthopaedics and Rheumatology at the 2008 British Medical Association Medical Book Competition
Winner of Association of American Publishers Best Book in Clinical Medicine, 2007
This landmark multimedia reference presents the most current information on surgical treatments of a wide range of injuries, from complex pelvic and spinal trauma to periarticular fractures and knee dislocations. For each injury, the authors guide the reader from the clinical evaluation, through the decision-making process, and to the surgical procedure. Each chapter provides a thorough review of surgical anatomy, streamlined discussion of the classification of the injury, the non-operative treatments available, and the indications for surgical treatment. Concise, step-by-step descriptions of surgical techniques are supplemented by carefully edited videos of surgical procedures on four accompanying DVDs, containing over 18 hours of video footage. Highlights of the book: Tips and Tricks summarize key points of each procedure for rapid review in preparation for surgery Exam Pearls describe injuries, incidence, indications for surgery, and possible complications and are ideal for board preparation More than 1,400 photographs, radiographs, and drawings illustrate techniques New Techniques sections cover the latest innovations for surgical management A separate table of contents for the four DVDs and shaded text boxes throughout the book enable convenient book-to-video reference Highlights of the DVDs: Narrated videos of entire surgical procedures provide a window into the operating room--an invaluable resource for residents and general orthopedic surgeons who do not perform trauma procedures regularly Coverage of state-of-the-art techniques such as locked plating, minimally invasive fracture fixation, advanced intramedullary nailing strategies, staged reconstruction of periarticular fractures, new techniques for hip hemiarthroplasty, surgical management of knee dislocation, including double bundle ACL and PCL knee reconstruction, and the use of temporary postoperative hinged external fixation Each DVD has been professionally produced and features high-quality audio, special effects, and multiple camera angles for each procedure Authoritative and comprehensive in its scope, this landmark text will be an invaluable asset in libraries of all orthopedic surgeons, residents, or specialists seeking a comprehensive and didactic reference.

Manual of Internal Fixation
Technique Recommended by the AO-Group
Swiss Association for the Study of Internal Fixation:
ASIFS
Springer Science & Business Media

This book focuses on the internal fixation of long bones by using intramedullary locked nails in a closed technique. Intramedullary fixation fulfils the biological requirements for fracture healing and minimises surgical trauma. The text illustrates the use and relevance of this technique in orthopaedic and trauma surgery including reconstructive surgery, covering the basic scientific

principles of reaming and locking as well as basic and advanced surgical techniques. Prevention of complications and complication management are also discussed in detail, making it an ideal text for those with an interest in the proper use of the techniques described.

Frank R. Noyes, MD – internationally-renowned knee surgeon and orthopaedic sports medicine specialist – presents this unparalleled resource on the diagnosis, management, and outcomes analysis for the full range of complex knee disorders. Relies on Dr. Noyes' meticulous clinical studies and outcomes data from peer-reviewed publications as a scientifically valid foundation for patient care. Features detailed post-operative rehabilitation programs and protocols so that you can apply proven techniques and ease your patients' progression from one phase to the next. Presents step-by-step descriptions on soft tissue knee repair and reconstruction for anterior cruciate ligament reconstruction, meniscus repair, soft tissue transplants, osseous malalignments, articular cartilage restoration, posterior cruciate ligament reconstruction, and more to provide you with guidance for the management of any patient. Contains today's most comprehensive and advanced coverage of ACL, PCL, posterolateral, unicompartmental knee replacement, return to sports after injury, along with 1500 new study references supporting treatment recommendations. Features all-new content on unicompartmental and patellofemoral knee replacement, updated operative procedures for posterior cruciate ligament and posterolateral ligament deficiency, updated postoperative rehabilitation protocols, and new information on cartilage restoration procedures and meniscus transplantation. Includes some of the most comprehensive and advanced discussions on arthrofibrosis, complex regional pain syndrome, tibial and femoral osteotomies, and posterolateral reconstructions available in modern published literature. Covers gender disparities in ligament injuries for more effective analysis and management.

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.

Operative Techniques in Orthopaedic Surgery is the first major new comprehensive text and reference on surgical techniques in orthopaedics. Written by over 800 experts from leading institutions around the world, this superbly illustrated four-volume reference focuses on mastery of operative techniques and also provides a thorough understanding of how to select the best procedure, how to avoid complications, and what outcomes to expect. The user-friendly format is ideal for quick preoperative review of the steps of a procedure. Each procedure is broken down step by step, with full-color intraoperative photographs and drawings that demonstrate how to perform each technique. Extensive use of bulleted points and tables allows quick and easy reference. Each clinical problem is discussed in the same format: definition, anatomy, physical exams, pathogenesis, natural history, physical findings, imaging and diagnostic studies, differential diagnosis, non-operative management, surgical management, pearls and pitfalls, postoperative care, outcomes, and complications. The text is broken into the following sections: Adult Reconstruction; Foot and Ankle; Hand, Wrist, and Forearm; Oncology; Pediatrics; Pelvis and

Lower Extremity Trauma; Shoulder and Elbow; Sports Medicine; and Spine. To ensure that the material fully meets residents' needs, the text was reviewed by a Residency Advisory Board. The 4 volume set comes with a companion website featuring the fully searchable contents and an image bank.

Operative Techniques in Pediatric Orthopaedics contains the chapters on pediatric surgery from Sam W. Wiesel's Operative Techniques in Orthopaedic Surgery and provides full-color, step-by-step explanations of all operative procedures. Written by experts from leading institutions around the world, this superbly illustrated volume focuses on mastery of operative techniques and also provides a thorough understanding of how to select the best procedure, how to avoid complications, and what outcomes to expect. The user-friendly format is ideal for quick preoperative review of the steps of a procedure. Each procedure is broken down step by step, with full-color intraoperative photographs and drawings that demonstrate how to perform each technique. Extensive use of bulleted points and tables allows quick and easy reference. Each clinical problem is discussed in the same format: definition, anatomy, physical exams, pathogenesis, natural history, physical findings, imaging and diagnostic studies, differential diagnosis, non-operative management, surgical management, pearls and pitfalls, postoperative care, outcomes, and complications. To ensure that the material fully meets residents' needs, the text was reviewed by a Residency Advisory Board.

This open access book describes and illustrates the surgical techniques, implants, and technologies used for the purpose of personalized implantation of hip and knee components. This new and flourishing treatment philosophy offers important benefits over conventional systematic techniques, including component positioning appropriate to individual anatomy, improved surgical reproducibility and prosthetic performance, and a reduction in complications. The techniques described in the book aim to reproduce patients' native anatomy and physiological joint laxity, thereby improving the prosthetic hip/knee kinematics and functional outcomes in the quest of the forgotten joint. They include kinematically aligned total knee/total hip arthroplasty, partial knee replacement, and hip resurfacing. The relevance of available and emerging technological tools for these personalized approaches is also explained, with coverage of, for example, robotics, computer-assisted surgery, and augmented reality. Contributions from surgeons who are considered world leaders in diverse fields of this novel surgical philosophy make this open access book will invaluable to a wide readership, from trainees at all levels to consultants practicing lower limb surgery

The diagnosis and treatment described in this book is based on the combination of Ilizarov technique, Paley's principle and Qinsihe Natural Reconstruction theory. It covers all kinds of lower limb deformities, ranging from congenital deformities to acquired deformities, the sequelae of Poliomyelitis, Cerebral Palsy, Spina Bifida Sequelae, Traumatic Sequelae, Charcot-Marie-Tooth disease, Osteogenesis Imperfecta and Congenital Pseudarthrosis Tibia, etc. There are also lots of clinical tips and tricks such as how to reduce radiation exposure during orthopaedic surgeries, how to correct multiple limb deformities in one stage, how to balance the dynamic muscle in complex foot and ankle deformities, and how to successfully accomplish the surgery of difficult lower limb reconstruction without allogeneic blood transfusion, etc. It is a valuable reference for orthopaedic surgeons and advanced trainees worldwide who interested in deformity correction and limb reconstruction.

Locking Plates in Veterinary Orthopedics is a comprehensive and state-of-the-art guide to all aspects of using locking plates to treat orthopedic conditions in dogs, cats, and large animals. • Offers a proven approach to using locking plates in veterinary practice • Highlights practical clinical applications with illustrative clinical cases • Includes information on the history, principles, and materials as well as specific

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techniques • Presents data on both traumatic and non-traumatic applications • Provides instructive color photographs to demonstrate the procedures

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