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Hip Magnetic Resonance Imaging - Young-Jo Kim 2013-10-18

Hip Magnetic Resonance Imaging presents a basic yet comprehensive discussion of the role and use of MRI in the diagnosis and treatment of injuries and diseases of the hip, highlighting common concerns and procedures. Beginning with the principles of MRI and dGEMRIC and moving on to normal and abnormal hip anatomy, the focus shifts to the MRI techniques used in the detection of disease conditions of the hip, including labral disease, osteonecrosis, extra-articular conditions and cartilage damage. Chapters on the utilization of biochemical imaging biomarkers in the treatment of hip disorders round out the text. Written by experts in radiology and orthopedics and generously illustrated with MRI radiographs, this book will be an important reference work for clinicians in those fields, as well as practitioners of sports medicine and primary care physicians.

Personalized Hip and Knee Joint Replacement - Charles Rivière 2020-06-30

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

Pricing Interest Rate Options -

Tribology in Total Hip and Knee Arthroplasty - Karl Knahr 2014-04-23

Wear and osteolysis are still the most important potential problems in total hip and knee arthroplasty. Although technology in arthroplasty has been improved dramatically during the past decade, the clinical data relating to some implants reveal that many concerns remain. During the "Tribology Day" within the

scientific programme of the 2013 EFORT Congress in Istanbul, the main topics included these concerns as well as the benefits of the materials most commonly used in total hip and knee arthroplasty. This book includes the presentations delivered on the day and covers a range of interesting issues regarding metal, ceramic, and polyethylene articulations. It provides information on the current concepts relating to tribology in total hip arthroplasty and offers a critical outlook on possible improvements in total knee arthroplasty.

Biomimetics - Murugan Ramalingam
2013-08-01

This book compiles all aspects of biomimetics from fundamental principles to current technological advances and their future trends in the development of nanoscale biomaterials and tissue engineering. The scope of this book is principally confined to biologically-inspired design of materials and systems for the development of next generation nanobiomaterials and tissue engineering. The book addresses the state-of-the-art of research progress in the applications of the principles, processes, and techniques of biomimetics. The prospective outcomes of current advancements and challenges in biomimetic approaches are also presented.

Hip Biomechanics - Shinichi Imura 2012-12-06

This volume is the arranged monograph based on the Hip Biomechanics Symposium held on November 1992 in Fukui, Japan. It consists of six major sections: loading, gait analysis, total hip arthroplasty, osteotomies, motion analysis, and stem designs for stability. The most important aim of the volume is to overview the current research outcomes in the biomechanical approaches to adult hip diseases. Each of these sections brings together many of the leading researchers in this field. The information found here will be of benefit to orthopedic surgeons and researchers in the related areas.

Bone-graft Surgery - Fred Houdlett Albee 1915

Albee was first to use living bone grafts as internal splints. He used saws to make inlaid, perfectly-fitting grafts.

Arthritis & Arthroplasty - Thomas E. Brown

2009-01-01

Offering state-of-the-art guidance on challenging issues in total knee replacement and

reconstruction, this resource includes a DVD with procedural videos and access to additional materials online.

Infected Total Joint Arthroplasty - Rihard Trebše 2012-12-14

There are a variety of protocols that are used in infected total joint arthroplasty. This book outlines and details the best possible course of treatment and formulate custom algorithms for every possible case, based on current evidence. It reviews current concepts and "recipes" for the diagnostic and therapeutic procedures (surgical and antibiotic) based on the type of implant, infection and the patient. This book is an essential resource on infected total joint arthroplasty, containing a series of logical and highly detailed instructions that will serve to educate orthopedic surgeons operating in this field on the best approaches, according to detailed and careful research conducted over the last decade.

Bone Graft Substitutes - 2015

Abstract Bone grafting was established in the 19th century and has become a common procedure in which bone defects are filled with bone grafts or bone graft substitutes. Bone defects that require bone grafting are encountered in approximately 10% of trauma and orthopaedic surgeries 1. A broad range of different bone grafts or bone graft substitutes have been developed during the past fifty years. All these bone grafts or bone graft substitutes have their strengths and weaknesses, confronting each surgeon with the difficult task to select the most suitable bone graft or bone graft substitute for each trauma and orthopaedic surgical procedure that requires bone grafting.

Toby Shoots for Infinity - Jean Lemieux

2011-07-27

Toby wants to know how far it is to the end of the universe. His father likes astronomy and he is showing Toby and his friends the moon and the stars. When Toby finds out that there is only infinity, he wants to find the answer to the question that his parents cannot answer. And to do this he must get to infinity, by counting. But he needs help along the way -- his friends, his parents and his teachers. This new story about Toby shows how everyone in school and home has a different approach to questions that have no definite answer.

Concise Orthopaedic Notes - Dr.Firas Arnaout
2020-05-13

These concise revision notes are aimed at candidates preparing for UK and international FRCS (Trauma & Orthopaedics) exit examination as well as the European Board (EBOT) and SICOT diplomas. The book has been written in an easy to read style, with a focus on being an exam candidate's companion for quick revision on the go. Candidates are usually caught between a busy job and the demands of these challenging exams. This book covers the depth and breadth of Trauma & Orthopaedics knowledge to help candidates sail through the Fellowship exit examinations. We have aimed to provide a high quality one stop concise knowledge bank to cover the whole syllabus of Trauma & Orthopaedics in a well organised bullet point style. This will provide a useful resource for both part 1 (MCQs, EMQs) as well as part 2 (Viva and Clinical) components of the exit examinations. It is an ideal companion to complement your preparation for the examination with the most useful information presented in the most succinct manner. The authors are senior members of the FRCS Mentor Group who have between them ample up to date experience and knowledge with the Fellowship examination. They have attended most postgraduate orthopaedic courses in the UK and internationally, and have reviewed all relevant exam book. They have excellent track records of helping many candidates to pass their exams. This book is complemented by hundreds of diagrams, illustrations, radiographs and clinical images. There are QR codes interspersed within the chapters which when scanned using your smartphone camera, link up to either the corresponding open-access seminal paper or to a YouTube video pertaining to the topic discussed. We look forward to the readers' feedback that will help us immensely to improve the contents in the next edition for the benefit of future orthopaedic aspirants. Head over to Amazon, Google Books and to BookAuthority.org to leave a review, or write to the email below. We also invite anyone who is interested to become an author of the next edition, or to discuss future collaboration or sponsorship opportunities to contact the editor on: thefrcsmentor@gmail.com

AAOS Essentials of Musculoskeletal Care -

AAOS 2018-06-26

Essentials of Musculoskeletal Care, Enhanced Fifth Edition is a robust educational resource focused on how to evaluate and manage common musculoskeletal conditions. This text is used for immediate, point-of-care guidance in decision making and intervention and is a powerful educational product for many health professions dealing with the care of the musculoskeletal system. The easy-to-understand content and crisp presentation appeal to health care professionals and students. It is also a powerful tool to help educate patients regarding conditions and treatment.

Tibia and Fibula - Charles Court-Brown
2000-12-31

This tibia and fibula volume provides a state-of-the-art resume of treatment for traumatic disruption of the lower leg.

Neurosurgery and Global Health - Isabelle M. Germano 2022-01-03

This book is a combination of ideas and experiences from over 100 dedicated and brilliant neurosurgeons around the world. Their common goal is to provide data for a deeper understanding of the multi-faceted aspects of neurosurgery and, by doing so, to better serve patients across the globe. Scientific curiosity, deep dedication, incredible work ethics, entrepreneurship, and creativity are the common traits among all neurosurgeons, and not the exception. By allowing readers to see the field of neurosurgery from the perspectives of surgeons spanning five continents, this book serves to provide multiple, diverse viewpoints and to build a foundation for future collaborations. The book's 24 chapters are organized into 3 parts. Part I provides the reader with an overview of the role of neurosurgery in worldwide health care, its evolution over the past decades, the current state and future directions of each neurosurgical subspecialty across the five continents. Over the years, the overarching goal for neurosurgeons has been to develop new, more effective and high-end solutions for complex diseases and to provide access to neurosurgical services for all patients. Part II discusses the differences and similarities of neurosurgery education and training across the globe, providing a snapshot of how new tools, technology, and paradigms reduce

inequality and increase access to neurosurgical education. Educational accomplishments and challenges still present for the in different regions of the world are reviewed. Part III focuses on economic aspects influencing neurosurgery globally, including how to make efficient decisions in the face of scarcity, yet demand. The authors provide theories, models, and tools helpful to apply when planning to allocate resources, not just financial, but also human and intellectual. A deeper understanding of economics does not necessarily provide the answer to the problem; rather it provides the tools to find an answer, or, ideally, multiple possible solutions. Neurosurgery and Global Health is the first comprehensive guide to the role of neurosurgery in the global health care sphere, providing an in-depth compendium about the understanding of the neurosurgical role within global health, its efforts in the education of tomorrow's workforce, and the economic aspects driving the field.

Rotator Cuff Surgery, An Issue of Clinics in Sports Medicine - E-Book - Stephen Brockmeier 2012-10-30

In this issue of Clinics in Sports Medicine, Dr. Stephen Brockmeier from the University of Virginia has assembled a group of experts to provide the latest updates on Rotator Cuff Surgery. This issue begins with the epidemiology and natural history of rotator cuff tears, followed by articles on: Imaging Evaluation of the Rotator Cuff; Arthroscopic Rotator Cuff Repair: Techniques in 2012; Biologics in the Management of Rotator Cuff Surgery; Outcomes of Rotator Cuff Surgery: What Does the Evidence Tell Us?; Rotator Cuff Injury in the Overhead Athlete; Failed Rotator Cuff Surgery, Evaluation and Decision-Making; Revision Rotator Cuff Repair; Non-Arthroplasty Options for the Management of Massive and Irreparable Rotator Cuff Tears; and Reverse Total Shoulder Arthroplasty for Irreparable Rotator Cuff Tears and Cuff Tear Arthroplasty.

Sports Injuries of the Foot and Ankle - Gian Luigi Canata 2019-04-12

This book explores in a comprehensive manner the best current treatment options for sports injuries of the foot and ankle. Particular attention is devoted to advanced surgical techniques, with practical and clear explanation

of every step of the described procedures. The coverage encompasses management of the full range of ligament, bone and joint, and tendon injuries, and a concluding section addresses special considerations such as outcome assessment and advances in rehabilitation techniques. Foot and ankle injuries are extremely common in athletes and may endanger their sporting activity. The approach to these injuries is constantly evolving with the aim of achieving the best possible functional restoration. In presenting a state of the art update covering all aspects of treatment, this book will be of value for established foot and ankle surgeons, fellows and residents in orthopaedics, and all those involved in sports medicine. The authors are leading international experts renowned within their fields, and the book is published in collaboration with ISAKOS. *Medical and Surgical Education* - Georgios Tsoulfas 2018-03-28

The last century has witnessed tremendous changes in the education and training system of medical students, as well as medical and surgical residents, in short, our future physicians. This has been the result of the changes in the educational philosophy, the technology, and the needs of our patients, just to name a few. The challenge is to learn more about the various systems in medical education throughout the world and identify advantages and disadvantages, a process from which we can all (and most importantly our patients) benefit from. This book is a compilation of the experiences, thoughts, and "best-practice" advice of a panel of international experts on medical and surgical education.

Usability Testing of Medical Devices - Michael E. Wiklund P.E. 2015-12-23

Usability Testing of Medical Devices covers the nitty-gritty of usability test planning, conducting, and results reporting. The book also discusses the government regulations and industry standards that motivate many medical device manufacturers to conduct usability tests. Since publication of the first edition, the FDA and other regulatory groups h

Neuromuscular Spine Deformity - Amer F. Samdani 2018-03-05

While most spine deformities such as scoliosis, kyphosis, and lordosis are idiopathic, muscular

dystrophy, cerebral palsy, spinal cord tumors and lesions are associated with more severe curve progression. Bracing typically does not prevent progression of spinal curves, and surgery is necessary for these patients.

Neuromuscular Spine Deformity by Amer F. Samdani et al is the most comprehensive book on this topic to date, detailing the latest surgical techniques for a wide range of common to rare neuromuscular pathologies, in 27 well-illustrated chapters. The comprehensive content derives from the authors' collective years of hands-on expertise, evidence-based knowledge from the literature, and multicenter scoliosis studies performed by the prestigious Harms Study Group, a worldwide research-based association of spine surgeons. The text begins with discussion of preoperative evaluation, nonoperative management, and surgical considerations such as anesthesia, neuromonitoring, and estimated blood loss. Section two highlights pathology-specific surgical interventions, while sections three and four provide clinical pearls on a wide array of surgical techniques, complications, and patient outcomes. Key Highlights Disease-related challenges including dislocated hips, hyperlordotic/hyperkyphotic spine in cerebral palsy, myelomeningocele-related myelodysplasia and spine deformity, Duchenne's muscular dystrophy, and spinal muscular atrophy

Guidance on assessing the sagittal profile preoperatively and executing it intraoperatively in patients with spinal cord injury Multiple options for fixation including the new sacral alar iliac screw approach for sacropelvic fixation and correction of pelvic obliquity Postoperative issues including ICU management, incidence and management of early and late wound infection, instrumentation failure, junctional kyphosis, and cervical extension Health-related quality of life outcomes in pediatric patients with cerebral palsy who have undergone scoliosis surgery This state-of-the-art resource is essential reading for orthopaedic surgeons, neurosurgeons, and trainees in these specialties. It is also a must-have reference for academic programs and institutional departments specializing in pediatric spine pathologies.

PEEK Biomaterials Handbook - Steven M. Kurtz 2011-11-09

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. Covering materials science, tribology and applications Provides a complete reference for specialists in the field of plastics, biomaterials, biomedical engineering and medical device design and surgical applications

The Magnetic Resonance Imaging Scan - 1987

Musculoskeletal Infection - John L. Esterhai 1992

This text provides a guide to understanding the mechanisms involved in the pathogenesis of musculoskeletal sepsis. It covers areas such as bone, cartilage, soft tissue, and biomaterial interaction in the face of infection.

Lateral Ankle Instability - Hélder Pereira 2021-04-28

This superbly illustrated, up-to-date reference textbook covers all aspects of ankle instability and its management. Readers will find extensive information on biomechanics, injury prevention, current strategies for conservative treatment, and established and emerging surgical techniques. The most recent procedures, particularly those which are minimally invasive and arthroscopically assisted, are described and discussed in depth. Detailed attention is also devoted to controversies such as the indications and timing for conservative or surgical

treatment, the current and future roles of arthroscopy, the definition of "anatomic" repair, and the upcoming concept of "anatomic reconstruction" (replication of anatomy by using a graft). The book is published in cooperation with ESSKA, and the chapter authors include clinicians and scientists working in the field of foot and ankle orthopaedics and sports medicine from across the world. All who are involved in the care of patients suffering from ankle instability, including amateur and high-level athletes, will find Lateral Ankle Instability to be an excellent source of knowledge and a valuable aid to clinical practice.

Postgraduate Orthopaedics - Paul A.

Banaszkiewicz 2012-08-16

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.

The Adult Hip Case 6 - Scott Sporer, m.
2012-01-01

Adult Hip - John J. Callaghan 2015-06-19

Overcome any clinical challenge in adult hip surgery with *The Adult Hip*. In this monumental two-volume orthopaedics reference, a'who's who' of preeminent authorities address every aspect of open and arthroscopic hip surgery, equipping you to effectively manage a full range of adult hip surgery patients and achieve optimal outcomes. 'The reader can pick and choose between well-organized foundational material on

important topics such as the history of hip surgery, hip anatomy, operative approaches, biomechanics, biomaterials, hip pathology, and state-of-the-art material on today's hottest topics such as hip exposures, taper corrosion, and the latest management of difficult challenges in primary and revision hip surgery. The new edition also covers new topics that have become increasingly important to hip surgeons in recent years: quality, outcomes measurements, cost and value.'-from the Foreword by Daniel J. Berry, MD Key Features Make the best decisions on the management of each patient with comprehensive coverage of every topic in open and arthroscopic adult hip surgery. Master all of the latest technological and scientific knowledge, including the most current understanding of metal ion creation and systemic distribution; the manufacture and modification of new materials and material combinations, including ceramics and plastics; and much more. Effectively manage metal-on-metal articulations as well as head-taper and dual-taper corrosions. Successfully interpret findings from the newest imaging technologies and other testing modalities. Take full advantage of the latest strategies for diagnosing, preventing, and treating infection. Now with the print edition, enjoy the bundled interactive eBook edition, which can be downloaded to your tablet and smartphone or accessed online and includes features like: Complete content with enhanced navigation A powerful search that pulls results from content in the book, your notes, and even the web Cross-linked pages, references, and more for easy navigation Highlighting tool for easier reference of key content throughout the text Ability to take and share notes with friends and colleagues Quick reference tabbing to save your favorite content for future use

Rockwood and Wilkins' Fractures in

Children - James H. Beaty 2010

The thoroughly revised, updated Seventh Edition of Rockwood and Wilkins' Fractures in Children offers a complete print and multimedia package: the established "gold-standard" reference on pediatric fractures and access to an integrated content website. The world's foremost authorities provide comprehensive coverage of all bone and joint injuries seen in children,

thoroughly discuss alternative methods for treating each injury, and present their own preferred methods. This edition has a more international group of contributors, more tips and pearls in the authors' preferred method presentations, and expanded coverage of complications. New chapters cover casting, remodeling and what is unique about children's fractures; principles of physical examination of children with fractures; and treacherous children's fractures. A companion website contains the fully searchable text, an image bank, and videos of the ten most difficult procedures.

European Surgical Orthopaedics and Traumatology - George Bentley 2014-05-20

This important reference textbook covers the surgical management of all major orthopaedic and traumatological conditions. The book will act as the major source of education and guidance in surgical practice for surgeons and trainees, especially those preparing for higher surgical examinations and the Board of Orthopaedics and Traumatology examinations within and beyond Europe. The emphasis throughout is on the application of current knowledge and research to technical problems, how to avoid operative problems, and how to salvage complications if they occur. The didactic text is complemented by abundant illustrations that highlight the essentials of each clinical scenario. The authors are all recognized international authorities active at congresses and workshops as well as in universities and hospitals across the world.

Arthritis and Arthroplasty: The Hip - Thomas E. Brown 2009-06-18

The Hip-a volume in the new Arthritis and Arthroplasty series-offers expert guidance on everything from patient selection and pre-operative planning to surgical approaches and techniques. Clear, evidence-based coverage details which technology and methodology used for total Hip arthroplasty (THA), reconstruction or revision is best for each patient. Access discussions of debates on minimally invasive surgery; component material and bearing options; cemented vs. uncemented fixation of the components; and more. Explore alternatives to THA in younger arthritic patients and view expertly narrated video demonstrations of

surgical techniques. In addition to providing practical, pragmatic advice in a concise, readable format, this Expert Consult title offers the full text of the book, as well as links to PubMed and periodic content updates, online at expertconsult.com. Access the full text of the book-as well as links to PubMed and periodic content updates on outcome data, component materials, and surgical techniques-online at expertconsult.com. Features procedural videos-narrated by experts-on the included DVD so you can see how to perform particular techniques. Covers periacetabular osteotomy, neurovascular injury, and other hot topics to keep you abreast of the latest developments in the specialty. Provides evidence-based, clinically focused guidance on patient selection, pre-operative planning, surgical approach and techniques, bearing surfaces and component materials, disease specific options, the management and avoidance of complications, salvage and revision THA strategies, and more. Discusses variations in technique, including cemented vs. cementless fixation, resurfacing or more radical removal of bone, and minimally invasive technique where the exposure is more limited so you can choose which is most effective for each patient. Explores alternatives to THA in younger arthritic patients such as arthroscopy, arthrodesis, osteotomy, and resurfacing. Includes a review page in every chapter for quick reference to pearls and pitfalls for each topic. Presents photographs and interpretive drawings of surgical techniques in full color to bring out intraoperative details as they appear in the operating room. Your purchase entitles you to access the web site 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 to the web site be discontinued.

Essentials in Total Knee Arthroplasty - Javad Parvizi 2011

In today's world of orthopedic surgery, the adult knee is the area most frequently operated on,

with total knee replacements being the second most commonly performed procedure, directly behind knee arthroscopy. *Essentials in Total Knee Arthroplasty* is a brand new text with the most concise information describing the basics of this common surgery. Dr. Parvizi has created a colorful text that contains a unique look into the world of total knee arthroplasty, including an in-depth history of the procedure and provides strategies to treat, as well as prevent complications. Features include:

- Colorful, visual, and descriptive text
- In-depth material covering total knee arthroplasty
- User-friendly and "easy to read"
- Charts and tables
- Bulleted text format

Inside you will find information on:

- History of Total Knee Arthroplasty (TKA)
- Surgical Approaches to Total Knee Arthroplasty
- Implant Selection and Fixation
- Controversies in Total Knee Arthroplasty
- Surgical and Non-Surgical Alternatives

Essentials in Total Knee Arthroplasty is the essential "go-to" book for residents, fellows, physical therapists, students and junior attending involved with all matters related to total knee arthroplasty.

Periprosthetic Joint Infection: Practical Management Guide - Parvizi Javad 2013-12-15
This book *Periprosthetic Joint Infection* is a portable guide to the practical management of surgical site infections following orthopedic procedures. It designed to help answer clinician's questions regarding the prevention and treatment of periprosthetic infections. It organized for rapid review, featuring evidence reviews, pitfalls, Rothman Institute Current Practices and Controversies. The guide is being included in the course materials for the 29th Annual Current Concepts in Joint Replacement® (CCJR) meeting thanks to a generous educational grant from 3M Health Care.

The Pediatric Upper Extremity - Joshua M. Abzug 2014-11-22
Sub-specialization within pediatric orthopedics is growing, in part due to the development of free-standing children's hospitals and the desire by patients and their parents to have "experts" care for them. We are at the forefront of a trend in physicians classifying themselves as pediatric upper extremity surgeons. Numerous pediatric hospitals now have or are recruiting physicians to focus their practice in this area. Historically,

these issues were treated by general orthopedic surgeons, adult hand surgeons, pediatric orthopedic surgeons, or plastic surgeons. However, none of these professionals treat the entirety of pediatric upper extremity pathology, and no single reference has focused on the treatment of the pediatric upper extremity as a whole. For example, fractures have typically been written about in pediatric textbooks, while tendon and nerve injuries are covered in adult hand textbooks. This textbook is a comprehensive, illustrated reference that discusses all aspects of the pediatric upper extremity, from embryology and functional development to nerve injuries, trauma, tumors, burns, sports injuries and more.

Flexible Intramedullary Nailing in Children - Pierre Lascombes 2009-12-13
Over the past three decades, the flexible intramedullary nailing (FIN) technique that originated in the University of Nancy in France has evolved to the point where it is becoming the gold standard for the treatment of many fractures in children. This comprehensive textbook on FIN is written by Pierre Lascombes and his colleagues from the University of Nancy and covers all its potential applications. The book is divided into three parts. The first part focuses on general considerations such as biomechanics, choice of implant, basic principles of surgical technique, and rehabilitation. The second part describes in detail the techniques developed for each particular fracture type with the aid of numerous high-quality illustrations. In the final part, a range of further indications for FIN in children are discussed. By clearly explaining the basic principles and various uses of FIN, this book will prove of value to both novice and experienced traumatologists and orthopedic surgeons.

Navigation and MIS in Orthopedic Surgery - James B. Stiehl 2007-02-15
The reader is enthusiastically encouraged to tackle this second edition text in two ways. The first is simply to scan chapters with their introductions, summaries and conclusion points. Second, is to delve into those sections of seeming greater interest depending upon one's specialty and role. The expansion and quality of this material speak to the success of the first edition by these editors and many similar

authors. In addition, the continued and enlarged interest in computer assisted Orthopedic surgery indicates the relevance and enduring importance of this advance in our field of musculoskeletal surgery. I suggest that no other discipline in surgery is so appropriately suited to computer assistance including robotic performance.

Orthopedics has always seemed unique to this author in that it focuses more than any other medical field on gross physical, mechanical structure. We deal nearly exclusively in physical repair of broken elements, rearrangement of deformed ones, and resurfacing or refurbishing those that are diseased in a way that has altered their mechanical integrity, shapes, and other structural aspects.

Surgical Techniques in Total Knee Arthroplasty - Giles R. Scuderi 2006-04-28

here, two well-known knee experts have assembled a group of leaders in the field to present a book encompassing the best techniques for total knee arthroplasty. Concise chapters cover indications, contraindications, complications, results, instrumentation, infection, preop planning, prosthetic choice, revision arthroplasty, and more -- with the emphasis on the best techniques and surgical "pearls". Supported by line drawings, intraoperative photographs and radiographs, this definitive volume will serve as the complete and quick reference on total knee arthroplasty.

Pediatric Osteoarticular Infections - Anil Agarwal 2013-01-30

This concise guide brings orthopaedic surgeons and paediatricians up to date with the latest developments in the management of bone and joint (osteoarticular) infections in children.

Beginning with an introduction to the causes and development of osteoarticular disorders, the following chapters discuss their clinical features, laboratory diagnosis and treatment options, both surgical and conservative. Each chapter describes a different infection and its management, with a separate chapter examining drug-resistant osteoarticular tuberculosis and co-infection with HIV. The final section discusses advances and research in the condition. Key points Concise guide to the diagnosis and management of bone and joint infections in children Each chapter discusses a different infection and covers conservative and surgical

treatment Final chapter describes new advances and research Includes more than 150 full colour images and illustrations

Emerging Tools for Single-Cell Analysis - Gary Durack 2004-03-24

The resurgence of interest in high-resolution evaluation of single-cell properties has led to examining where current technology stands at the beginning of a new millennium. Engineers and scientists have produced significant advances in cytometric technologies in just the past few years. *Emerging Tools for Single-Cell Analysis: Advances in Optical Measurement Technologies* stresses the applications and theories behind some of these advances in cell measurement and cell-sorting technologies. Rapid assessment of the proper function of cells and molecular processes within cells is essential. To that end, new and varying technologies present important diagnostic and prognostic tools relevant to a variety of diseases. Future developments in miniaturization of electronics, micro- and nanomachines, and biomedical engineering are certain to impact cell biology. New analytical technologies are revolutionizing our ability to functionally characterize, isolate, and manipulate single cells. This timely book offers researchers and design engineers much-needed information as they further develop technologies for cell analysis. By comparing and contrasting various approaches, the authors explain how those technologies converge toward similar goals: evaluating the properties of cells and sorting cells on those properties using optically-based measurement systems. *Emerging Tools for Single-Cell Analysis* offers scientists and engineers a vision of the exciting possibilities that exist as new technologies are applied to single-cell analysis,

Design of Artificial Human Joints & Organs - Subrata Pal 2013-08-31

Design of Artificial Human Joints & Organs is intended to present the basics of the normal systems and how, due to aging, diseases or trauma, body parts may need to be replaced with manmade materials. The movement of the body generates forces in various work situations and also internally at various joints, muscles and ligaments. It is essential to figure out the forces, moments, pressure etc to design replacements that manage these stresses without breaking

down. The mechanical characterization of the hard and the soft tissues are presented systematically using the principles of solid mechanics. The viscoelastic properties of the tissue will also be discussed. This text covers the design science and methodology from concept to blueprint to the final component being replaced. Each chapter will be a brief overview of various joint/organ replacement systems. Engineers working on artificial joints and organs, as well as students of Mechanical Engineering and Biomedical Engineering are the main intended audience, however, the pedagogy is simple enough for those who are learning the subject for the first time.

Pediatric Femur Fractures - Daniel J. Hedequist
2016-12-01

Bringing together the many considerations and complexities surrounding the management of 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.