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**Spinal Orthopaedics** Jun 03 2021

**ABC of Orthopaedics and Trauma** Mar 24 2023 Fully illustrated throughout with a wide range of scans, images and line drawings, ABC of Orthopaedics and Trauma provides practical guidance on the diagnosis, treatment and management of orthopaedic conditions, and assists with the initial assessment based on common presentations. Written by a team of renowned expert orthopaedic surgeons and rheumatologists, it includes coverage of the current national guidelines from NICE and professional bodies. Twenty-four chapters cover all the major areas of this vast speciality using a digestible and reader-friendly approach, including sections on fractures, joint replacements, rheumatological disorders, osteoarthritis, emergencies, and post-operative care. Introduction to specialist topics like metabolic bone disease, peripheral nerve injury, paediatric orthopaedics and tumours are also featured. Topics consist of history and examination, investigation and initial management of common orthopaedic trauma and elective presentations. In addition, this full-colour, user-friendly reference guide offers readers a look at the day-to-day clinical practice of a speciality that will affect at least half of the global population at some point, covering further chapters on epidemiology, biomechanics, common procedures, future developments and education. ABC of Orthopaedics and Trauma is an excellent resource for all healthcare professionals caring for patients with musculoskeletal and orthopaedic related disorders. This will be a valuable reference to orthopaedic trainees, sports physicians, physiotherapists, nurses, occupational therapists, clinical researchers and student doctors.

[The Future of Orthopaedic Sports Medicine](#) Aug 29 2023 In this book, leading international thinkers in the still nascent field of orthopaedic sports medicine consider what the future holds and give their views on what we should be most worried about. The range of issues addressed is wide, encompassing technological threats, environmental concerns, big data and its ramifications, the influence of industry, academic ethics, and much more. Many of the identified dangers are not yet on the popular radar, and these are the principal focus of the book. On the other hand, attention is also paid to misplaced fears, with explanation as to why these anxieties can be laid to rest. The contributors are leading thinkers in the field and include original pioneers of sports medicine, senior and newly appointed orthopaedic surgeons, orthopaedic trainees, and sports medicine physicians. In addition, leaders of industry in sports medicine and allied health professionals from around the world share their fears. This compelling and thought-provoking book, published in collaboration with ISAKOS, will appeal to all stakeholders in orthopaedic sports medicine.

[Kienböck's Disease](#) Feb 11 2022 Collecting and synthesizing all of the most recent literature on Kienböck's disease from around the world, this comprehensive text aims to provide a more dynamic, nuanced treatment

algorithm for this enigmatic condition. Part I consolidates the basic science on Kienböck's and the lunate, including anatomy, pathology, biomechanics and etiology. Clinical assessment is covered in part II, including radiology, advanced imaging and arthroscopy. The natural history and progression of the condition in children, adults and the elderly is also presented. By far the largest section, part III describes the roles and methods of the various management strategies for Kienböck's, from minimally invasive techniques to arthroscopic and arthroplastic procedures. The final chapter draws from all of these concepts, establishes a new algorithm and provides a direction for the future. Written and edited by leaders in the field, and including supplemental video features for select chapters, Kienböck's Disease: Advances in Diagnosis and Treatment is a remarkable text that helps unlock this mysterious condition, and will be a valuable resource for hand and orthopedic surgeons, residents and trainees worldwide.

[Deep Learning for Precision Diagnosis & Surgery](#) Feb 23 2023 Artificial intelligence, smart applications, and virtual assistants are now revolutionizing every area of our lives, including healthcare delivery. This book introduces readers to the latest technological advances in the emerging field of augmented clinical care, machine learning for early diagnosis, and artificial intelligence-assisted precision surgery with orthopedics as a leading example. The applications of these techniques in orthopedic interventions offer many potential benefits, e.g., early diagnosis of elusive complications, precise templating and planning of surgery, systematic execution of the original plan with maximum accuracy, facilitating minimally invasive surgery and improving outcomes. This book is a valuable resource for all healthcare researchers, AI-based software developers and clinicians, on what is needed and what to expect to excel in the future of high-quality patient care. It also outlines why physicians must play a pivotal role in the development of these AI-based applications that will plainly define the future of personalized and cost-effective healthcare delivery for maximum patient safety and satisfaction. May the miracle you need be just around the corner.

[Intelligent Orthopaedics](#) Aug 25 2020 This book introduces readers to the latest technological advances in the emerging field of intelligent orthopaedics. Artificial intelligence and smart instrumentation techniques are now revolutionizing every area of our lives, including medicine. The applications of these techniques in orthopaedic interventions offer a number of potential benefits, e.g. reduced incision size and scarring, minimized soft tissue damage, and decreased risk of malalignment. Consequently, these techniques have become indispensable for various orthopaedic interventions, which has led to the emerging field of intelligent orthopaedics. Addressing key technologies and applications, this book offers a valuable guide for all researchers and clinicians who need an update on both the principles and practice of intelligent orthopaedics, and for graduate students embarking on a career in this field.

**Orthopedic Traumatology** Oct 07 2021 Now in its revised and expanded second edition, this comprehensive, user-friendly text brings the latest evidence to bear on the diagnosis and management of orthopedic trauma patients. Centering on clinical scenarios, each chapter is based on a specific case. Leaders in the field of orthopedic trauma provide their expert opinions on management strategies and techniques while using data as their guide. The book is divided into sections covering the spine, upper and lower extremities, hip and acetabulum, foot and ankle, polytrauma, infection and perioperative management. New chapters in this edition discuss elbow fracture dislocations, femoral neck fractures in the young, Lisfranc injuries and acute post-operative infection. Each chapter describes and summarizes the data in a consistent structure, but achieves this objective in a case-based format. Utilizing the latest literature, Orthopedic Traumatology: An Evidence-Based Approach, Second Edition will continue to serve as a guide for orthopedic residents and practicing physicians alike.

**Orthopaedic Surgical Approaches** E-Book Jul 16 2022 Completely revised to feature a new, more modern design, Orthopaedic Surgical Approaches presents all of the latest imaging modalities and techniques used in orthopaedics today. This medical reference book captures the

changes in this rapidly evolving field, equipping you with an expert, illustrative guide to the full array of common and contemporary surgical approaches, as well as the relevant regional anatomy. No matter what your level of training, this volume promises to be your go-to manual for acquiring new skills in the OR. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Access an up-to-date anatomic review of surgical approaches, including new advances in arthroscopy, mini-open, robotic, and computer-assisted techniques. Easily reference key information with an organization based on anatomical region (including a review of regional anatomy, cross-sectional anatomy, landmarks and hazards) followed by procedure. Visualize the full range of contemporary surgical approaches used in orthopaedics with over 1,000 original, full-color drawings and color photographs. Gain insight into optimal patient positioning, see clear previews of anatomic landmarks and incisions, realize potential dangers of superficial and deep dissection, and learn techniques of closure. Take advantage of the newest techniques and procedures with arthroscopic and minimally invasive approaches incorporated into each body region. Utilize illustrations and information on surgical interventions and radiological landmarks as an introduction to each body region's relevant approaches. Understand the hazards, particularly with regard to avoiding nerve damage, associated with each surgical approach. View the complete contents and video clips online at Expert Consult!

**The Clubfoot** Sep 18 2022 The Clubfoot: The Present and a View of the Future is a monumental source book of far greater magnitude and scope than has been written on this subject. This volume is a superb tool for pediatric orthopedists specializing in foot and ankle surgery who want to advance their knowledge of research, clinical management, and operative techniques in patients with clubfeet.

**The Artificial Knee** Jan 10 2022 Spanning both the history and future of knee replacement, this unique book recounts how artificial knees have reached the stage they are today, and whether their performance can be further improved. The author, who has been designing artificial knees for 50 years, starts the story in the late 1960's with the early pioneers; during the 1970's, the principles for successful artificial knees were established. While many different types were designed, a small number have become by far the most widely utilized. Yet other types of designs, so far little used, along with new materials and the application of computer-assisted surgery, could result in significant advancements in the treatment of knee arthritis. Each chapter provides a detailed description of the origins of the ideas and principles and their rationale, followed by the latest information and evidence. The book begins with an overview of the history and background of the artificial knee, in terms of design and implementation and the thought leaders involved. Fixation, biomechanics, and the types of designs are discussed in detail, both what has worked and what has not, and why. Instrumentation, testing and tribology, and functional evaluation methods are also covered. The book concludes with a look toward the future possibilities for the field of artificial knees. An illustrated glossary of terms, is included for quick reference. The Artificial Knee: An Ongoing Evolution will appeal to orthopedic surgeons and researchers, medical academics and orthopedic companies, and to those with a general interest in artificial knees.

**Cartilage Surgery and Future Perspectives** Dec 21 2022 Tissue engineering as a technology and as a therapeutic has captured worldwide attention and commitment because it has such potential in the care of humanity. Because we are not as yet able to craft robust three dimensional vascular and ductal structures to support the development of complex parenchymal organs, the initial focus of the field has been on thin tissues that can be nourished by diffusion alone. The best example of this class is cartilage. Thought by some to be a relatively simple tissue in the early days of tissue engineering, deep study of this tissue has shown it to manifest great complexity. Years of experimental and clinical effort have begun to untangle the clues that will allow us to reproducibly characterize, generate and clinically apply engineered cartilage with positive effects. World wide researchers and clinicians are intently focused on this goal and it has come time to step back and make a good assessment of our progress.

**Artificial Intelligence in Healthcare** May 14 2022 Artificial Intelligence (AI) in Healthcare is more than a comprehensive introduction to artificial intelligence as a tool in the generation and analysis of healthcare data. The book is split into two sections where the first section describes the current healthcare challenges and the rise of AI in this arena. The ten following chapters are written by specialists in each area, covering the whole healthcare ecosystem. First, the AI

applications in drug design and drug development are presented followed by its applications in the field of cancer diagnostics, treatment and medical imaging. Subsequently, the application of AI in medical devices and surgery are covered as well as remote patient monitoring. Finally, the book dives into the topics of security, privacy, information sharing, health insurances and legal aspects of AI in healthcare. Highlights different data techniques in healthcare data analysis, including machine learning and data mining Illustrates different applications and challenges across the design, implementation and management of intelligent systems and healthcare data networks Includes applications and case studies across all areas of AI in healthcare data

**Hip Arthroplasty** Apr 13 2022 This book brings together the latest updates and current trends in arthroplasty of the hip covering the basics as well as complex and revision surgery. Eminent arthroplasty surgeons across the globe have contributed to the chapters and shared their clinical experiences. There are separate sections on primary hip arthroplasty, complex scenarios requiring hip replacement, and detailed management of related complications. It covers revision hip replacement in detail with the latest updates on surgical techniques and implants. There are separate sections on computer navigation and robotic-assisted hip replacement surgeries. A special section on implants and tribology has been added. The language of the book is easy-to-read, user friendly with pictorial representation of relevant surgical steps. Case-based discussions, surgical tips, and pearls and summary has been added in each chapter. The references given at the end of each chapter would be useful for those doing research. This book is an essential on-the-desk book for practicing orthopedic surgeons across the globe, beginners in arthroplasty surgery, postgraduate students of orthopedics, DNB students, and those preparing for board exams.

**Radiology of Orthopedic Implants** Jul 28 2023 There is an ever-expanding range of implants used in Orthopaedic Surgery. Nearly 200,000 joint replacement procedures are done in UK every year. The performance of these implants is assessed on radiographs. This is of interest to Orthopaedic surgeons and Radiologists alike. Information on interpretation of these radiographs is not readily available in an easily readable format. This book will assist both trainees and practicing orthopedic surgeons and radiologists in assessing the radiologic appearance of implants and their potential for future performance.

**Biofabrication for Orthopedics** Jul 04 2021 Biofabrication for Orthopedics A comprehensive overview of biofabrication techniques for orthopedics and their novel applications With an ever-increasing global population and the rise in the occurrence of orthopedic diseases amongst an aging population, it is essential for technological advances to meet this growing medical need. Orthopedic biofabrication is a cutting-edge field that seeks to produce novel clinical solutions to this mounting problem, through the incorporation of revolutionary technologies that have the potential to not only transform healthcare, but also provide highly automated and personalized patient solutions. With the advances in the discipline, there is a significant growing interest in biofabrication for orthopedics in research activity geared towards routine clinical use. Ideal for a broad readership amongst medical practitioners and scientists, Biofabrication for Orthopedics summarizes all aspects of the topic: detailed information on the technology, along with advanced developments, research progress, and future perspectives on biofabrication for orthopaedics—particularly on the potential applications for tissue engineering technologies. In doing so, the book describes the various biomaterials—natural and synthetic—use for orthopedics and discusses the many ways in which these materials can be used in all parts of the body. As such, it offers detailed information on a wide range of applications in the fields of biology and clinical and industrial manufacturing. Biofabrication for Orthopedics readers will also find: Insights into the applications of biofabrication technologies in various bodily functions Thorough discussion of different biofabrication techniques used in creating orthopedic products, like stereolithography, cell sheet and organ bioprinting, electrospinning, and microfluidics Discussion of a wide range of diverse functions, such as bone implants, skin regeneration, vascularization, meniscus remodeling, and more Biofabrication for Orthopedics is a useful reference for those in a variety of research fields like medical-related practitioners and scientists, materials science, medicine, and manufacturing, as well as the libraries who support them.

**Anterior Hip Replacement** Mar 12 2022 Anterior hip replacement is a surgical approach that has dramatically changed the landscape of modern hip replacement. The approach is common to orthopedic trauma

surgery, but it has been rapidly adopted in recent years for hip replacement as well. Its proposed benefits as a muscle-sparing surgery include less tissue trauma, faster recovery, and fewer hip precautions. While the technique can be challenging during initial learning and early adoption, the approach continues to increase in utilization in the U.S. every year because of these benefits. Understanding the initial development of the anterior surgical approach for hip replacement creates the foundation to better understand its modern clinical benefits and possibilities with advanced techniques. Furthermore, a detailed description of the reasoning behind the continued developments of the anterior approach helps in understanding the key elements needed to obtain the most successful outcomes. With the continued adoption of this technically challenging technique, there is a need for a comprehensive resource for newly adopting surgeons and surgeons in training, but also for experienced surgeons looking to enhance their skill sets. Written by experts in the field, this book presents the tips and tricks learned after years of experience by a wide spectrum of surgeons. Parts 1 and 2 describe the origin and background of the anterior approach for hip replacement, with early lessons learned, important tips when training others, and how to master the operating table and c-arm. Parts 3 and 4 cover hip biomechanics and variations on techniques and technologies, respectively, while part 5 is a unique compilation of surgeons' perspectives on managing common aspects of the approach. Revision surgery is described in part 6, and future directions for the technique are discussed in part 7, along with emerging navigation and technologies. Every year, there is an increasing number of orthopedic surgeons learning and adopting the anterior hip approach who would benefit from the resources in this book, which will serve as a critical learning tool for training surgeons and also as the go-to reference for optimizing current use and advancing future possibilities of the approach.

**Orthopedic Traumatology** Apr 25 2023 Physicians are under increasing pressure to provide quality health care in the most cost-effective way possible. The escalating costs of orthopedic care are driving the need to base clinical decision making on evidence-based data that will help physicians provide optimal care to every patient. Evidence-based medicine is the future of orthopedic surgery. In a world where the quality of surgical outcomes will be increasingly measured, evidence-based data will heavily guide decision making in orthopedic trauma. *Orthopedic Traumatology: An Evidence-Based Approach* provides the reader with a focused and comprehensive review of the literature surrounding the management of the orthopedic trauma patient. The book centers around clinical scenarios with each chapter based on a specific case. Renowned orthopedic trauma surgeons from across the country serve as contributing authors, writing based on these scenarios and giving their expert opinions on management while using data as their guide. Each chapter describes and summarizes the data, but achieves this objective in a case-based format. Each case is brief, but includes relevant imaging. The case scenarios are heavily weighted toward treatment of more controversial injuries. As there is currently no book on the market that focuses solely on orthopedic trauma and evidence-based medicine, this book is sure to be a useful reference for residents and practicing physicians alike.

**Biologics in Orthopaedic Surgery** Jul 24 2020 Designed with the practicing clinician in mind, *Biologics in Orthopaedic Surgery* provides a succinct, easy-to-digest overview of the integration of biologics (platelet-rich-plasma [PRP], bone marrow aspirate [BMA], and stem cells) into today's orthopaedic practice. Covering relevant basic science as well as clinical applications, this concise reference takes a head-to-toe approach to the emerging role of orthobiologics for specific conditions and procedures, in addition to future directions for implementation.

**Global Perspectives, An Issue of Orthopedic Clinics** Nov 08 2021 This volume of *Orthopedic Clinics* will focus on *Global Perspectives in Orthopedic Surgery*. Edited by members of a distinguished board from the Campbell Clinic, including Dr. Frederick Azar as editor-in-chief, each issue features several articles from the key subspecialty areas of knee and hip, hand and wrist, shoulder and elbow, foot and ankle, pediatrics, and trauma. Topics discussed in the issue will include but are not limited to: Polio, POSNA-COUR Scholarship Program: Results of the First 15 Years, Delivery of Pediatric Orthopedic Care in Ecuador through Project Perfect World: Past, Present, and Future, The Burden of Disease Worldwide, Ulnar abutment syndrome in the athlete, Conservative and Surgical Treatment of Foot & Ankle Pathology Associated with Leprosy, and Brazilian Total Ankle Experience.

**3D Printing in Orthopaedic Surgery** Jan 22 2023 Get a quick, expert overview of the role of emerging 3D printing technology in orthopaedic

surgery, devices, and implants. This concise resource by Drs. Matthew DiPaola and Felasfa Wodajo provides orthopaedic surgeons and residents with need-to-know information on the clinical applications of 3D printing, including current technological capabilities, guidance for practice, and future outlooks for this fast-growing area. Covers basic principles such as engineering aspects, software, economics, legal considerations, and applications for education and surgery planning. Discusses 3D printing in arthroplasty, trauma and deformity, the adult and pediatric spine, oncology, and more. Includes information on setting up a home 3D printing "plant" and 3D printing biologics. Consolidates today's available information on this burgeoning topic into a single convenient resource

**Infection and Local Treatment in Orthopedic Surgery** Apr 01 2021 The management of orthopedic infection is an area of growing importance in orthopedic surgery. This text provides a complete overview from basic research to clinical application and future perspectives in the treatment of orthopedic infection emphasizing the role of local therapy. Coverage details the various approaches to the treatment of orthopedic infections, making the book an important tool for the daily practice of its readers.

**The Clubfoot** Aug 05 2021 *The Clubfoot: The Present and a View of the Future* is a monumental source book of far greater magnitude and scope than has been written on this subject. This volume is a superb tool for pediatric orthopedists specializing in foot and ankle surgery who want to advance their knowledge of research, clinical management, and operative techniques in patients with clubfeet.

**Handbook of Orthopedic Surgery** Feb 28 2021 Orthopedic surgery is a branch of surgery. It studies the disorders and diseases related to the musculoskeletal system. The treatment methods used by orthopedic surgeons to treat the disorders related to the musculoskeletal system are both surgical and nonsurgical. Some of the common sub-branches associated with orthopedic surgery include spine surgery, hand and upper extremity, total joint reconstruction, foot and ankle surgery, pediatric orthopedics, surgical sports medicine and musculoskeletal oncology. Spinal fusion is a very common orthopedic surgical technique. It is used to join two or more vertebrae, at the time, when the disc wears out. The various sub-fields of orthopedic surgery along with technological progress that have future implications are glanced at in this book. It studies, analyzes and upholds the pillars of orthopedic surgery and its utmost significance in modern times. This book, with its detailed analyses and data, will prove immensely beneficial to professionals and students involved in this area at various levels.

**Motor Skills Training in Orthopedic Sports Medicine** Dec 29 2020 This book aims to provide orthopedic surgeons with all the information that they will require in order to set up and run a motor skills course that will meet the needs of junior staff in Orthopedic Sports Medicine and help in training better surgeons for the future. The coverage is wide-ranging, from the fundamentals of what it takes to be a sports surgeon through to validation methods that measure teaching effectiveness and the certification of surgical skills at the end of the course. Clear guidance is provided on how to teach concepts of surgical skill and the strategy and practical details of designing a training program, with inclusion of a helpful checklist of do's and don'ts. Different basic training modalities are described, with a particular focus on the FAST system adopted by the Arthroscopy Association of North America, and the role of simulators in surgical skills training is discussed. The book has been produced in cooperation with ISAKOS and the authors are leading professionals from around the world who offer a truly global and multidisciplinary perspective on the subject.

**MIS of the Hip and the Knee** Apr 20 2020

**Adult Lumbar Scoliosis** Dec 09 2021 Providing a sound definition and review of the pertinent treatment goals for the management of adult lumbar scoliosis, this practical and comprehensive guide covers everything from pre-operative evaluation and radiography to post-operative management and complications. Both non-operative and operative strategies are presented, including minimally invasive techniques, decompression, anterior release, spinal osteotomy, and proximal and distal fixation, with an emphasis on clinical guidelines and management outcomes. The impact and prevention of complications following treatment are also discussed, including the prevention of proximal junctional kyphosis. Concluding with an examination of future directions for research and clinical treatment strategies, the comprehensive approach of this book provides the orthopedic surgeon, neurosurgeon and spinal practitioner with the most current evidence and expert thought about the evaluation and management of adult lumbar scoliosis.

**Pediatric Orthopedics in Practice** Nov 27 2020 This book

communicates the latest findings in pediatric orthopedics and answers key everyday questions in the field in an informative, readily understandable manner. The scope is comprehensive, encompassing all aspects of diagnosis and therapy. After an opening section on basic principles, the two main sections discuss diseases and injuries by site and cover systemic conditions including trauma, infections, juvenile rheumatoid arthritis, tumors and hereditary diseases. The book is the translation of the latest edition of the well-known classic *Kinderorthopädie in der Praxis*, which presents the collected knowledge of experts from Basel University Children's Hospital - Fritz Hefti and his co-workers Reinald Brunner, Carol Claudius Hasler, and Gernot Jundt. This edition has been revised and updated in a variety of ways. New findings are incorporated into all chapters, important advances in treatment are presented and the latest concepts in tumor diagnosis and neuro-orthopedics are discussed. The book contains more than 150 additional illustrations, including new clinical images and radiographs and many further amusing cartoons by Franz Freuler. The aim is to make children's orthopedics fun - in both practice and theory! The book has received several awards.

**Paediatric Orthopaedics** May 02 2021 This book provides a refined clinical guide for evidence-based recommendations in paediatric orthopaedics. Focusing on specific body regions (hip, knees, ankle and feet, spine, shoulder, elbow and wrist and hand) this resource addresses clinical questions related to conditions in these areas. A background section in each chapter sets the scene for the best available practice and also appraises the evidence for its strength and weakness. At the end of each chapter, the authors' provide recommendations on future research. *Evidence-Based Paediatric Orthopaedics: The Best Answers to Clinical Questions* has been edited by a team of surgeons with a great interest in evidence-based practice who have brought together an international experts to produce this timely book. A wide spectrum audience including paediatric orthopaedic surgeons, trauma surgeons, orthopaedic residents, emergency department doctors, general practitioners and medical students looking for an evidence based approach to paediatric orthopaedics will find this book to be an essential guide for clinical practice.

**Value-Based Approaches to Spine Care** Oct 27 2020 Unsustainable healthcare costs and sophisticated predictive modeling based on large-scale medical data is rapidly changing models of healthcare delivery. The shift towards a value-based, consumer-driven industry has created an urgent need for validated tools to increase cost efficiency, reduce rates of adverse events, and improve patient outcomes. Value-based approaches to spine care will be presented, highlighting models for the future. These approaches stress cost effectiveness and sustainable approaches to spinal disease, where quality and safety are paramount. Beginning with a review of current trends in health care delivery leading to more value-based platforms, the discussion then focuses on how modern spine care is being shaped by the aging population, scientific and technological advancements, and the economic impact of various treatment modalities, providing insight into the seminal efforts surrounding sustainable spine care guideline development. The over-utilization of spine fusion surgery and adult spinal deformity are presented as examples that have led to a decline in the value of care delivered, as well as how a multidisciplinary evaluation by the range of clinicians involved in spine surgery can revise recommendations for management. The benefits and risks of LEAN methodology for streamlining and standardizing spine care approaches are discussed, and the specific approach of the Seattle Spine Team is presented as an example of successful system-wide improvement. Similar changes to outcome measurement, specifically for adult spinal deformity, are described. Last, the future of technology in spine care is presented, including robotics, nanotechnology, 3D printing, and the use of biologics and biomaterials. Given the broad scope of topics covered in this book, the intended audience includes not only orthopedic and spinal surgeons, neurosurgeons, physiatrists, and medical students, residents and fellows, but also hospital CEOs, CMOs, administrators, health services researchers, and health care policymakers, consultants and strategists.

**Clubfoot** Jun 22 2020 Clubfoot is a common deformity but remains unsolved. Detailed epidemiology has been described to assess the socio-economic impact. All corrective methods are enumerated, highlighting their efficacy and pitfalls. The importance of each clubfoot case being different and the means of dealing it is emphasized upon. This is a comprehensive book on Clubfoot with the types and their mode of treatment extensively discussed. Also, Clubfoot differences during birth, additional birth defects, weight bearing effect with age, previous scars,

trauma and other complications are covered. Key Features A comprehensive book on Clubfoot Explained the different kinds of clubfoot Evidence based description of each clubfoot being different Updated with the latest treatment techniques Comparative analysis of various treatment options

**Digital Orthopedics** May 26 2023 This book addresses all aspects of digital techniques in orthopedics, from development of the core principles to imaging techniques, computer-aided design, reverse engineering and their applications. It illustrates the successful applications in accurate operation using 3-D reconstruction and applied digital techniques. All illustrations and tables were meticulously selected and are easy to understand. The book was written for all doctors and researchers who work in the fields of orthopedics, CAD/CAM and anatomy. Above all, surgeons, physiatrists, radiologists, and engineers in image processing and orthopedics will find it a valuable resource.

**Posterior Hip Disorders** Sep 25 2020 This unique and comprehensive text discusses the main causes of posterior hip pathology and recent advances in evaluation and treatment of those conditions, including posterior hip pain caused by discogenic, intrapelvic and extrapelvic disorders. Opening with description of the specific anatomy and biomechanics of the posterior hip and the etiology of hip disease, the next few chapters superbly discuss and illustrate the clinical, psychological and radiological assessment of the patient. Analysis with differential diagnosis of various causes of posterior hip pain, including nerve entrapment and impingement, is then presented in detail, followed by discussion of the essentials of the lumbopelvic complex as a source of pain. Later chapters cover vascular claudication as a cause of posterior hip pain, how to evaluate and manage the perioperative scenario, and physical therapy evaluation and treatment. Presenting the latest in examination, diagnostic tools, and surgical and therapeutic techniques from around the world, *Posterior Hip Disorders* is a solid resource for current and future generations of orthopedic surgeons, radiologists, physiatrists, spine surgeons, sports medicine specialists, rheumatologists, primary care physicians, and physical therapists.

**Thromboembolism in Orthopedic Surgery** Jun 15 2022 This book reviews the main topics in thromboprophylaxis around orthopedic surgery, from a general scope of the problems with the disease highlighting them in orthopedics to the new specific protocols involving, for example, new oral anticoagulants. The prevalence of the venous thromboembolism in each procedure (from "easy" to "hard" surgeries, with different rates of related thrombosis) and the risk factors to bear in mind in each one (related and non-related with the orthopedic procedure) are also revised. A chapter focus on the diagnosis and treatment of venous thromboembolism, which is commonly "forgotten" in many books addressed to orthopedic surgeons and anaesthesiologists. The methods for thromboprophylaxis have three specific chapters: the most common drugs used and recommended when pharmacological prophylaxis is needed, new drugs which are arising day by day and which management will be of main importance in a close near future, and mechanical methods, recommended both as additional when possible and for sole indications when the risk of bleeding could move us to minimize the real risk of thrombosis. Anaesthetic implications for thromboprophylaxis and, also, main implications of the application of antithrombotic protocols in the anaesthetic practice are covered by another chapter. In our opinion it was very important to divide the orthopedic procedures according to their own thrombotic risk, so having their own protocols for thromboprophylaxis: high risk, day surgery procedures and "special" surgical procedures are included in three different chapters, from three different authors with complementary views. Finally, in a last chapter, we review the problems involving the perioperative management of antiaggregated and anticoagulated patients, with a special part in hip fracture surgery.

**Knee Arthroplasty** Oct 19 2022 This book offers a comprehensive guide to knee arthroplasty that will assist in achieving excellent outcomes based on a sound understanding and technique. An introductory section on the primary knee arthroplasty that covers preoperative planning, surgical exposures, step by step approach to knee arthroplasty, unicondylar knee arthroplasty and radiological assessment are discussed in detail. The next section is devoted to topics pertaining to knee replacement in complex situations like bone defects, stiff knees, previous failed trauma and extra-articular deformities. A separate section has been dedicated to use of technology like Computer navigation and Robotics in TKA. An extensive section explains the causes and management of potential complications, including instability, infections, and periprosthetic fracture. Individual chapters focussing on multimodal

pain management, deep vein thrombosis, rehabilitation and newer advances have been included. The surgical techniques appropriate for revision knee arthroplasty are described separately, and guidelines on how to deal with bone loss, instability, gap balancing, joint line restoration, and use of bulk allografts, hinges and condylar replacement prosthesis are provided. The authors are all respected experts from the United Kingdom, United States, India and Europe. The language of the book is easy to read, user friendly with colourful pictorial representation of relevant surgical steps. Case based discussions, surgical tips and pearls and summary has been added in each chapter. The references given at the end of each chapter would be useful for those doing research. This book should be of interest to practicing orthopaedic surgeon across the globe, beginner arthroplasty surgeons, postgraduate students of orthopaedics, DNB students and those preparing for board exams. This book will serve as a reference book for Master Arthroplasty surgeons as well as a compendium on Knee Arthroplasty.

*Nanotechnology-Enhanced Orthopedic Materials* Aug 17 2022

Nanotechnology-Enhanced Orthopedic Materials provides the latest information on the emergence and rapid development of nanotechnology and the ways it has impacted almost every aspect of biomedical engineering. This book provides readers with a comprehensive overview of the field, focusing on the fabrication and applications of these materials, presenting updated, practical, and systematic knowledge on the synthesis, processing, and modification of nanomaterials, along with the rationale and methodology of applying such materials for orthopedic purposes. Topics covered include a wide range of orthopedic material formulations, such as ceramics, metals, polymers, biomolecules, and self-assemblies. Final sections explore applications and future trends in nanotechnology-enhanced orthopedic materials. Details practical information on the fabrication and modification of new and traditional orthopedic materials Analyzes a wide range of materials, designs, and applications of nanotechnology for orthopedics Investigates future trends in the field, including sections on orthopedic materials with bacterial-inhibitory properties and novel materials for the control of immune and inflammatory responses

#### **An Integrated Approach to Marketing Orthopedic and**

**Neuroscience Service Lines** Jan 30 2021 An Integrated Approach to Marketing Orthopedic and Neuroscience Service Lines Frederick J. Barnes, MD, FAAOS, FACS; Patrick T. Buckley, MPA; William K. Cors, MD, MMM, FACPE; Michael Gilpin An Integrated Approach to Marketing Orthopedic and Neuroscience Service Lines offers a unique perspective based on the authors' extensive experiences in both the marketing and orthopedics industries. Coauthors William K. Cors, MD, MMM, FACPE, and Frederick J. Barnes, MD, FAAOS, FACS, bring senior hospital and healthcare system management experience, and Michael Gilpin and Patrick T. Buckley, MPA, bring extensive experience as healthcare marketing professionals. Brought together, these authors provide unique composite insight from three different perspectives: physician, consultant, and practitioner. In a clear and succinct style, this resource outlines the key marketing fundamentals and strategies critical for building and growing an accomplished, integrated orthopedic service line in the 21st century. Blending the perspective of two physicians and two marketing healthcare professionals, this book: Provides a detailed road map for marketing and promoting today's integrated orthopedics and neurosciences service line Brings together best marketing practices with best clinical practices Explains why the customer's point of view must be your marketing point of view Outlines why marketing must be a collaborative, ongoing activity that involves the entire organization View the Table of Contents: Chapter 1: The Changing Landscape Chapter 2: When Marketing and Operations Become the Experience Chapter 3: Marketing Intelligence and Intelligent Marketing: Effectively Using Market Information Chapter 4: Positioning and Branding Your Service Line Chapter 5: Blueprint Your Investment: The Ortho/Neuro Marketing Plan Chapter 6: Marketing Communications and Promotion Chapter 7: Mirror-Mirror: Internal Marketing Chapter 8: A Peek Into the Future: Marketing Orthopedics and Neuroscience

**Future of Orthopedics** Jun 27 2023

*Orthopedics and Spine* Nov 20 2022 This comprehensive source for orthopedic and spine service line development addresses future healthcare challenges while incorporating leadership, high-performance culture, and process changes. The focus is on patient-centric care-at every level of the care episode. Written by an entire team of orthopedic and spine service line experts, this book will help maximize the orthopedic service line's success. Readers will receive high-level guidance and case studies to help them: Prepare for the healthcare

initiatives of the future Create a branded Destination Center of Superior Performance for your service line Strengthen relationships with stakeholders Develop a high performance culture Differentiate your hospital and your surgeons within the marketplace What's New: Since the first edition of Orthopedics and Spine, there have been major changes in healthcare. This book addresses how to overcome the challenges associated with these changes, such as: Understanding the future of healthcare Preparing to take on risk Proving value Bridging the hospital physician gap Addressing the on call crisis Incorporating LEAN and its culture into everyday hospital practice This edition also contains chapters dedicated to physicians and administrators sharing their personal experiences in healthcare to illustrate the importance of patient centered care, the challenges of change, communicating effectively, the need for simplicity, and how to stay positive through it all.

**Biofabrication for Orthopedics, 2 Volumes** May 22 2020 This book not only thoroughly reveals research advances of biofabrication in orthopedics up to now but also provide perspectives for future research trends. It attracts attention of researchers from biomedicine, materials science, chemistry, pharmacy and so on.

**Computer Assisted Orthopaedic Surgery for Hip and Knee** Sep 06 2021 This book focuses on two major areas in the field of computer assisted orthopaedic surgery (CAOS): hip and knee surgery. It reviews the current clinical status of the various CAOS tools for hip and knee arthroplasty, osteotomy, ligament reconstruction, spine surgery, trauma surgery, and tumour surgery that have become available in recent years and discusses future applications based on fundamental research and continuously developing computer technology / devices. Computer Assisted Orthopaedic Surgery for Hip and Knee highlights three areas - total knee arthroplasty (TKA); total hip arthroplasty (THA) and hip osteotomy; and statistical shape modelling. It is a valuable resource for orthopaedic surgeons, clinical technologists and computer scientists and other specialists interested in this technology.

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