Improving Accuracy In Knee Arthroplasty 1st Edition
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Handbook of Robotic and Image-Guided Surgery
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Improving Accuracy in Knee Arthroplasty

Helmed by a brand-new editor from the Mayo Clinic, the latest edition has been updated with new procedures and principles and additional imagery. Each technique is described in step-by-step detail. You will also find an overview of each injury or condition, explanations of indications and preoperative planning, complications and issues to watch out for, and tips for success.

Total knee arthroplasty (TKA) is commonly considered to be a reliable procedure, with high implant survival rates at 10 to 15 years of follow-up. The goal of total knee replacement surgery is to relieve pain and obtain better knee function. This is achieved by ensuring correct patient selection, preoperative deformity, implant design and accurate surgical techniques. This book covers a range of techniques for the realisation of functional joint motion and stability. The first part of the book will describe fundamentals in total knee arthroplasty and alternative procedures. The second half will look at surgical techniques and considerations whilst the final chapters will address future trends and challenges in the field of knee surgery. This book will be an essential reference for academics, orthopaedic surgeons, and those training in medicine, physiatry and rheumatology.

Calipered kinematic alignment was proposed by Dr. Stephen M. Howell to enable the accurate and individualized placement of total knee components coincident within ± 0.5 mm of the patient’s pre-arthritic alignment. The aim was to restore the patient's native joint kinematics and thereby address the well documented 20% dissatisfaction when total knee replacement is performed using traditional, or mechanical alignment techniques. With Dr. Stefano A. Bini and Dr. G. Daxton Steele as co-editors, Dr. Howell has curated an international team of expert surgeons and engineers to discuss various aspects of the calipered knee alignment technique in short, concise, and well-illustrated chapters. Each author provides clear, practical guidance for adopting and implementing calipered kinematic alignment covering manual, patient-specific, navigated, and robotic techniques. Chapters

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on component design tailored explicitly for kinematic alignment and showing the close relationship between knee biomechanics and the kinematically aligned TKA help the surgeon manage complex challenges associated with deformity and post-operative complications. Following the introduction of the calipered kinematic alignment technique for total knee arthroplasty, many international studies have shown consistently better patient satisfaction than the traditional mechanical alignment technique. Better function and high long-term implant survival have catalyzed a paradigm shift in total knee replacement philosophy that is being embraced by orthopedic surgeons and innovative implant companies around the world with excellent results. Calipered Kinematically Aligned Knee Arthroplasty is the definitive textbook on the subject and features: Thorough explanations of how the calipered kinematic alignment technique for total knee arthroplasty accurately sets total knee components coincident with the patient’s pre-arthritic alignment and coaligned with the three rotational axes of the native knee. A personalized approach to total knee surgery designed to reconstitute the patient’s native biomechanics in contrast with mechanical alignment that place all patients in the same standard alignment regardless of their constitutional anatomy. Detailed and well-illustrated descriptions of manual, navigated, robotic and patient-specific guide techniques that confirm kinematic alignment with a caliper. Clinical photos, radiographs, and line art throughout the book as well as helpful online technique videos. Key focus topics such as managing complex deformities, the expected post-operative recovery, and future trends in kinematic alignment. The shared experience and knowledge of international pioneers in the field. An emphasis on a personalized surgical philosophy which enables same-day discharge, reduces pain and opioid use, and promotes quicker recovery, better function, and a more natural feeling knee.

Bringing together the most up-to-date information on all aspects of primary and revision total ankle replacement (TAR), this definitive text focuses on TAR procedures and prostheses available for use in North America with additional “lessons learned” from the international community. The text is evidence-based, includes bullet points for quick reference, and is heavy on step-by-step photographs during surgery. Accordingly, the chapter content over four main sections is a purposeful mix of theory, data, and tips/pearls with detailed photographs, tables, and references. Section One provides an introduction to and history of TAR, including a discussion of fixed versus mobile bearings, TAR versus arthrodesis, and current indications and contraindications for primary TAR. Section Two focuses on primary TAR, covering a number of contemporary systems, such as INBONE, INFINITY, SALTO TALARIS and STAR. Secondary procedures with TAR comprise Section Three, including management of wound healing complications, soft tissue injuries, and varus and valgus malalignment. Section Four discusses revision TAR, covering topics such as infected replacements, component subsidence, and limb salvage as well as issues surrounding specific implant failures. Comprehensive yet practical, Primary and Revision Total Ankle Replacement will be the gold standard for books on this topic for many years to come and will provide invaluable instruction to orthopedic surgeons, podiatrists and foot and ankle clinicians worldwide.

This volume of Orthopedic Clinics will focus on Common Complications 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.

A group of experts in lower extremity surgery provide an update on current techniques for total adult knee and hip arthroplasty. Online bonus issue for subscribers.

The focus of this book lies on novel aspects of rehabilitation medicine used as a treatment tool in both physical and mental spheres. The articles cover a diverse spectrum, such as rehabilitation in orthopedic pathologies, the exemplary of which is knee joint degeneration, in perioperative metastatic cancer diseases, or in neural degeneration requiring a transplant of donor nerve fibers into the defunct nerve. Advanced research studies involving
proprioceptive neuromuscular facilitation, photobiomodulation, or yoga meditative techniques to regain functional ability are dealt with. The topic is expanded by a comprehensive picture of chosen molecular, genetically underpinned, diagnostics in hepatitis C infections and of novel ideas in drug design holding a curative promise in central neurodegeneration, such as development of brain-blood-barrier permeable oleic derivatives of the hydrophilic dopamine compound. The emerging rehabilitative modes and applications are posed to influence future health care delivery. The state-of-the-art research is addressed to scientists, clinicians, therapists, and allied health care professionals.

This book offers a concise review and international perspective on state-of-the art unicompartmental knee reconstruction procedures. To apply less invasive procedures resulting in fewer complications and shorter recoveries, it provides insights on patient selection, equipment design, and surgical techniques. Newer concepts such as the use of robotics and haptic surgery as well as outpatient surgeries are natural extensions of these surgeries. Long term outcomes along with complications and future directions are discussed as well. Partial Knee Arthroplasty presents an ideal resource for the occasional partial knee arthroplastic surgeon to the expert interested in international and contemporary advances in partial knee replacement.

This issue of Clinics in Sports Medicine will cover the latest technology and techniques in partial knee arthroplasty, including the use of robotics, different types of custom implants, and advice on return-to-activity. It will also offer information on different possible outcomes and complications that could occur after surgery. This topic has not been covered in Sports Medicine in at least the past ten years, and, as it grows as a popular treatment, it should become a useful issue of CSM.

This book, comprising the Instructional Course Lectures delivered at the 19th ESSKA Congress in Milan in 2021, provides an excellent update on current scientific and clinical knowledge in the field of orthopaedics and sports traumatology. It addresses a variety of interesting and controversial topics relating to the shoulder, elbow, hip, knee and foot, all of which are highly relevant to orthopaedic surgeons’ daily practice. Featuring contributions written by leading experts from around the globe, it enables readers to gain a better understanding of pathologies, which in turn can lead to more individualized treatments for patients. The book is of interest to clinicians and researchers alike.

This book offers a comprehensive guide to total knee arthroplasty (TKA) that will assist in achieving excellent outcomes based on a sound understanding and technique. After an introductory section on the native knee that covers the anatomy, physiology, biomechanics, and patterns of disease, all aspects of primary knee arthroplasty are discussed in detail. Individual chapters are devoted to topics such as acute pain management, the role of technological aids, prosthetic kinematics, alignment targets, unicompartmental arthroplasty, patellar resurfacing, outcome measures, and cost-effectiveness. An extensive section explains the causes and management of potential complications, including aseptic failure, infections, and periprosthetic fracture. The surgical techniques appropriate for revision knee arthroplasty are described separately, and guidelines on how to deal with bone loss, instability, and extensor mechanism failure are provided. The authors are all respected experts from the United Kingdom, United States, Australia and Europe.

James V. Bono, MD, and Richard D. Scott, MD, two leading authorities in the field, edited this invaluable how-to book on corrective surgery for failed total knee arthroplasty. The text has an in-depth, comprehensive approach geared for orthopedic surgeons, sports medicine specialists, and residents. All fundamental aspects of revision total knee arthroplasty and its complications are covered. More than 350 illustrations—60 in full color—complement well-written explanations of general principles, surgical procedures, and special considerations. Top experts in orthopedics offer clinical pearls on topics such as diagnosis and evaluation, pre-op planning and component selection, surgical approach, revision technique, post-op complications, and salvage. Radiologists also detail the use of imaging for evaluation. Economics and reimbursement are addressed as well. Readers will find that this
thorough and accurate book is an unprecedented guide that unravels the complexity of revision total knee arthroplasty.

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.

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.

As knee replacement surgeries continue to grow in number worldwide, the need for an authoritative and comprehensive reference in this key area is a must for today’s orthopaedic surgeon. The Adult Knee: Knee Arthroplasty, Second Edition, brings together the knowledge and expertise of internationally recognized experts in the field in one convenient volume.

With 400 detailed images to assist learning, this book provides trainee orthopaedic surgeons and

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.

Covering both primary and revision total knee arthroplasty (TKA), each technique-oriented chapter in this book opens with a clinical case and an overview of the challenges and multiple options for management, and each section within the chapter will describe the physical exam, surgical approach, clinical outcome and recent supporting literature. Chapters will utilize bullet points for quick reference and plentiful intra-operative photos to illustrate the various techniques described. Part one covers primary TKA, with cases demonstrating management strategies for the varus and valgus knee, flexion contracture, patellofemoral arthritis, and extra-articular deformity, among others, while part two covers revision TKA, with cases demonstrating acute infection, flexion and global instability, severe tibial and femoral bone loss, and periprosthetic fracture, among others. Written and edited by experts in the field, Complex Cases In Total Knee Arthroplasty: A Collection of Current Techniques will be a useful reference for orthopedic surgeons, residents and fellows as well as sports medicine specialists and anyone involved in surgical care of the knee.
Essentials in Total Knee Arthroplasty is a succinct, yet comprehensive book that provides a unique look into the world of total knee arthroplasty (TKA), beginning with an in-depth history of this common procedure, and then progressing to strategies that will manage, treat, and prevent complications. Inside the pages of Essentials in Total Knee Arthroplasty, Dr. Javad Parvizi and Dr. Brian Klatt, along with more than 40 contributors, cover a wide-range of topics, including: * Knee biomechanics and biomaterials * Surgical approaches to TKA * Postoperative Analgesia Options for the Total Knee Arthroplasty Patient * Controversies in TKA * Mechanisms of failure in TKA * Complex primary total TKA * TKA revision * TKA rehabilitation With over 100 color images, clear & descriptive text, and a forward thinking approach to clinical and basic research in the reconstruction of the knee, Essentials in Total Knee Arthroplasty will become the "go-to" book for orthopedic residents, fellows, junior attendings, medical students, and physical therapists involved with all matters related to total knee arthroplasty.

The purpose of this book is to offer an exhaustive overview of the recent insights into the state-of-the-art in most performed arthroplasties of large joints of lower extremities. The treatment options in degenerative joint disease have evolved very quickly. Many surgical procedures are quite different today than they were only five years ago. In an effort to be comprehensive, this book addresses hip arthroplasty with special emphasis on evolving minimally invasive surgical techniques. Some challenging topics in hip arthroplasty are covered in an additional section. Particular attention is given to different designs of knee endoprostheses and soft tissue balance. Special situations in knee arthroplasty are covered in a special section. Recent advances in computer technology created the possibility for the routine use of navigation in knee arthroplasty and this remarkable success is covered in depth as well. Each chapter includes current philosophies, techniques, and an extensive review of the literature.

Explore the many changes in hip and knee arthroplasty in recent years with completely new chapters on thromboprophylaxis, outpatient surgery, pain management, retrieval—hip and knee, medical and biologic treatment of arthritis, nonarthroplasty management, infection, periprosthetic fracture, anatomy and surgical approaches, and dual-mobility cups and large-diameter heads for primary and revision total hip arthroplasty. Expand your knowledge with the standard in adult hip and knee reconstruction, while you advance patient care with the best practices available. Developed in partnership with The Hip Society and The Knee Society, OKU® Hip and Knee Reconstruction 6 examines current research and reviews of the most relevant topics chosen by recognized authorities. Find a wealth of information on cutting-edge developments and approaches for surgically challenging conditions. Orthopaedic surgeons with a speciality interest in hip and knee reconstruction, and physicians and allied health interested in staying up to date on best practices will benefit from this edition. Residents in training can review key topics paired with helpful guidelines and images.

Doody Rating : 4 stars : This book is created by a collaboration of surgeons all over the world. The primary purpose of this book is collecting the available information about alignment and to combine the different opinions about this topic in one book. Today’s technology offers us a helping hand to perform better during surgery and to find the anatomical landmarks in a more consistent way. The book contains many pictures about the different surgical systems and offers many tips and tricks related to the subject. The authors discuss alignment and the anatomical landmarks used to align knee pro.

Techniques in Revision Hip and Knee Arthroplasty is the one authoritative volume that gives you an efficient, problem-based approach to revision arthroplasty of both the hip and knee. Dr. Giles Scuderi and other leading experts from North America and Western Europe present their favored surgical procedures and post-surgical management strategies in this straightforward, heavily illustrated, video-intensive reference. It’s your one-stop, go-to guide for successful revision surgery for a myriad of complications, such as implant loosening, polyethylene wear, osteolysis, or infection of the hip and knee. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Get expert guidance on implant choice, management of complications (including infection and wound healing), and failure of mechanisms, as well as step-by-step surgical
techniques. Quickly find the exact information you need with a straightforward "just what you need to know" approach, including surgical tips and pearls. Stay up to date with new insights regarding anatomic landmarks, recommended reconstruction options in revision surgery, including management of bone defects and instability. Access an abundance of surgical videos at Expert Consult.

"Take away my knee pain and give me better motion." This is what the arthritic patient expects from a Total Knee Arthroplasty (TKA). By virtue of standardization of the TKA procedure, surgeons can nowadays solve the pain issue for the majority of the patients. Restoration of function is a goal of a different order and forms the scope of this book. The editors confronted today's leading knee surgeons with the limitations of current surgical techniques and technology. They challenged them to define new thresholds of functional capacity after Total Knee Arthroplasty. "A Guide to Get Better Performance in TKA" describes the cutting edge in surgical techniques, prosthetic design and achievement of excellent function for these patients.

This book presents a compilation of topics related to primary total knee arthroplasty. The chapters cover, in a clear and didactic way, the current themes, written by experts from the area, from different parts of the world. Topics related to the three surgical phases (before surgery, during surgery, and after surgery) are discussed here. This is very important because the surgeon is not a "factory worker." First of all, it is a medicine doctor who has to feel and understand the particularities of each patient. Demographic studies show an aging population. Osteoarthritis and inflammatory diseases are becoming much more prevalent. In addition, a worldwide epidemic of trauma has led to the need for arthroplasties much more frequently. Therefore, total knee arthroplasty will be an increasingly important subject.

Advances in Medical and Surgical Engineering integrates the knowledge and experience of experts from academia and practicing surgeons working with patients. The cutting-edge progress in medical technology applications is making the traditional line between engineering and medical science ever thinner. This is an excellent resource for biomedical engineers working in industry and academia on developing medical technologies. It covers challenges in the application of technology in the clinic with views from an editorial team that is highly experienced in engineering, biomaterials, surgical practice, biomedical science and technology, and that has a proven track record of publishing applied biomedical science and technology. For medical practitioners, this book covers advances in technology in their domain. For students, this book identifies the opportunities of research based on the reviews of utilization of current technologies. The content in this book can also be of interest to policymakers, research funding agencies, and libraries, that are contributing to development of medical technologies. Covers circulatory support, aortic valve implantation and microvascular antestmosis Explores arthroplasty of both the knee and the shoulder Includes tribology of materials, laser treatment and machining of biomaterial

This state-of-the-art book focuses specifically on the current and emerging uses of robotics for knee and hip arthroplasty, with an expanding market anticipated, particularly as costs drop, data emerges and surgical efficiencies improve. It is divided into four main sections. Part one covers the background and basic principles of robotics in orthopedic surgery, discussing its history and evolution, current concepts and available technologies, perioperative protocols for recovery and pain management, economic considerations, and risks and complications. The second and third parts focus on the techniques themselves for the knee and hip respectively, including unicompartmental and bicompartamental knee arthroplasty, patellofemoral arthroplasty, and total knee and hip arthroplasty utilizing Navio, Mako, iThink, Omni and ROSA Knee robots. The final section presents the emerging use of robotics in spine surgery as well as for hospital process improvement. Presenting the most current techniques, technology and evidence, Robotics in Knee and Hip Arthroplasty will be a valuable resource for orthopedic surgeons, residents and fellows looking to implement and utilize these developing management strategies in their clinical practice.

This open access book describes and illustrates the surgical techniques, implants, and technologies used for the purpose of personalized implantation
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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 invaluable to a wide readership, from trainees at all levels to consultants practicing lower limb surgery

Computer-assisted surgery is a growing sub-discipline of orthopaedic surgery. This book offers a comprehensive presentation of scientific work and clinical experience including new technologies like individual templating in unicompartmental and total knee arthroplasty based on computer-assisted design technology. Computer-assisted surgery involves not only total knee and total hip arthroplasty, but also trauma, sports and revision surgery. In this edition we have added sections on 3D fluoroscopy-based spinal surgery as well as 3D fluoroscopy-based trauma surgery. Even in total hip surgery, navigation systems offer exciting new aspects, and the clinical benefit of navigation in total knee arthroplasties has now been demonstrated. We believe that this textbook will be of interest to those new to this specific field, while also providing an update for experienced users. An added benefit is the international character of this textbook, including experiences from Switzerland, Israel, the United States and the German-speaking countries.

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.

Handbook of Robotic and Image-Guided Surgery provides state-of-the-art systems and methods for robotic and computer-assisted surgeries. In this masterpiece, contributions of 169 researchers from 19 countries have been gathered to provide 38 chapters. This handbook is 744 pages, includes 659 figures and 61 videos. It also provides basic medical knowledge for engineers and basic engineering principles for surgeons. A key strength of this text is the fusion of engineering, radiology, and surgical principles into one book. A thorough and in-depth handbook on surgical robotics and image-guided surgery which includes both fundamentals and advances in the field A comprehensive reference on robot-assisted laparoscopic, orthopedic, and head-and-neck surgeries Chapters are contributed by worldwide experts from both engineering and surgical backgrounds

This book focuses on the current clinical practice, outcome and the future development of Total Knee Arthroplasty (TKA) in surgical settings. A major objective of this work is to address “What is the optimal design and fixation of the implants we use for knee arthroplasty reconstruction? What are the gold standards? and, Can we do better?”. In an attempt to throw light on these questions, the authors evaluate data from clinical studies and assess various factors which may influence the long term outcome of TKA. Many variables such as age, severity, implant design and surgical techniques for appropriate component placement and soft tissue balancing are explored in great detail by expert surgeons in the field. Total Knee Arthroplasty: Long
Term Outcomes will be a useful resource for recently qualified surgeons in search of an introduction to this topic and for more experienced surgeons seeking an in-depth critical review of current practices in TKA.

Online and in print, Insall & Scott Surgery of the Knee, edited by W. Norman Scott, MD, and 11 section editors who are experts in their fields, is your complete, multimedia guide to the most effective approaches for diagnosis and management of the full range of knee disorders affecting patients of all ages. From anatomical and biomechanical foundations, to revision total knee replacement, this authoritative reference provides the most up-to-date and complete guidance on cutting-edge surgical procedures, the largest collection of knee videos in one knee textbook. Expanded coverage and rigorous updates—including 40 online-only chapters—keep you current with the latest advances in cartilage repair and regeneration, allograft and autografts, computer robotics in total knee arthroplasty, and other timely topics. This edition is the first book ever endorsed by The Knee Society. Access the full text - including a wealth of detailed intraoperative photographs, a robust video library, additional online-only chapters, a glossary of TKR designs, quarterly updates, and more - at www.expertconsult.com. Get all you need to know about the clinical and basic science aspects of the full range of knee surgeries as well as the latest relevant information, including imaging and biomechanics; soft tissue cartilage; ligament/meniscal repair and reconstructions; partial and total joint replacement; fractures; tumors; and the arthritic knee. Master the nuances of each new technique through step-by-step instructions and beautiful, detailed line drawings, intraoperative photographs, and surgical videos. See exactly how it’s done. Watch master surgeons perform Partial and Primary TKR, Revision TKR, Tumor Replacement, Fracture Treatment, and over 160 videos on the expertconsult.com. Find information quickly and easily thanks to a consistent, highly templated, and abundantly illustrated chapter format and streamlined text with many references and chapters appearing online only. Access the fully searchable contents of the book online at www.expertconsult.com, including 40 online-only chapters, a downloadable image library, expanded video collection, quarterly updates, and a glossary of TKR designs with images and text from various device manufacturers. Grasp and apply the latest knowledge with expanded coverage of cartilage repair and regeneration techniques, expanded ligament techniques in allograft and autografts, computer robotics in surgical prognostics, fitting and techniques in partial and total knee arthroplasty, and more. Consult with the best. Renowned knee surgeon and orthopaedic sports medicine authority Dr. W. Norman Scott leads an internationally diverse team of accomplished specialists—many new to this edition—who provide dependable guidance and share innovative approaches to reconstructive surgical techniques and complications management.

Responding to the growing demand for minimally invasive procedures, this book provides a comprehensive overview of the current technological advances in image-guided surgery. It blends the expertise of both engineers and physicians, offering the latest findings and applications. Detailed color images guide readers through the latest techniques, including cranial, orthopedic, prostrate, and endovascular interventions.

This book is structured in a way that guides the reader from prevention through to diagnosis and then treatment of infection following total knee arthroplasty, in each case providing state of the art information on available techniques and procedures. The section on the crucial preventive measures include guidance on preoperative optimization and skin preparation, antibiotic prophylaxis, and preoperative microbiological screening. All relevant aspects of diagnosis of infection are considered in detail, and the treatment-related section includes chapters on antibiotic suppression, arthroscopic lavage, open debridement with polyethylene exchange, one- and two-stage revision arthroplasty, and knee arthrodesis as a salvage procedure. Readers will also find clear instruction on how to proceed when all attempts to eradicate infection fail. In reflecting the latest knowledge and practice in this rapidly advancing field, the book will be an asset to all who are involved in the care of these patients.

Evidence-Based Orthopedics is an up-to-date review of the best evidence for the diagnosis, management, and treatment of orthopedic conditions. Covering orthopedic surgery as well as pre- and post-operative complications, this comprehensive guide provides recommendations for implementing
evidence-based practice in the clinical setting. Chapters written by leading clinicians and researchers in the field are supported by tables of evidence that summarize systematic reviews and randomized controlled trials. In areas where evidence is insufficient to recommend a practice, summaries of the available research are provided to assist in decision-making. This fully revised new edition reflects the most recent evidence using the approved evidence-based medicine (EBM) guidelines and methodology. The text now places greater emphasis on GRADE—a transparent framework for developing and presenting summaries of evidence—to allow readers to easily evaluate the quality of evidence and the strength of recommendations. The second edition offers a streamlined presentation and an improved standardized format emphasizing how evidence in each chapter directly affects clinical decisions. Incorporating a vast amount of new evidence, Evidence-Based Orthopedics: Features thoroughly revised and updated content, including a new chapter on pediatric orthopedics and new X-ray images Provides the evidence base for orthopedic surgery as well as pediatric orthopedics and orthopedic conditions requiring medical treatment Covers the different methods for most orthopedic surgical procedures, such as hip replacements, arthroscopy, and knee replacements Helps surgeons and orthopedic specialists achieve a uniform optimum standard through a condition-based approach Aligns with internationally accepted guidelines and best health economic principles Evidence-Based Orthopedics is an invaluable resource for orthopedic specialists, surgeons, trauma surgeons, trainees, and medical students.

This book presents the state of the art in and offers up-to-date guidance on the treatment of knee osteoarthritis (KOA), a rapidly evolving and expanding field. Written by experts from leading institutions, it offers a comprehensive overview of this condition, from initial treatment, to surgical approaches and rehabilitation. The book covers a variety of topics, including intra-articular injection options; treatment of uni- and tri-compartmental KOA; infected, unstable and stiff total knee arthroplasty; periprosthetic fractures; and prosthetic revision. A wealth of images and cutting edge information make this book an invaluable tool for orthopedic surgeons, rheumatologists, physiatrists, physiotherapists and all healthcare workers involved in the care of these patients.

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