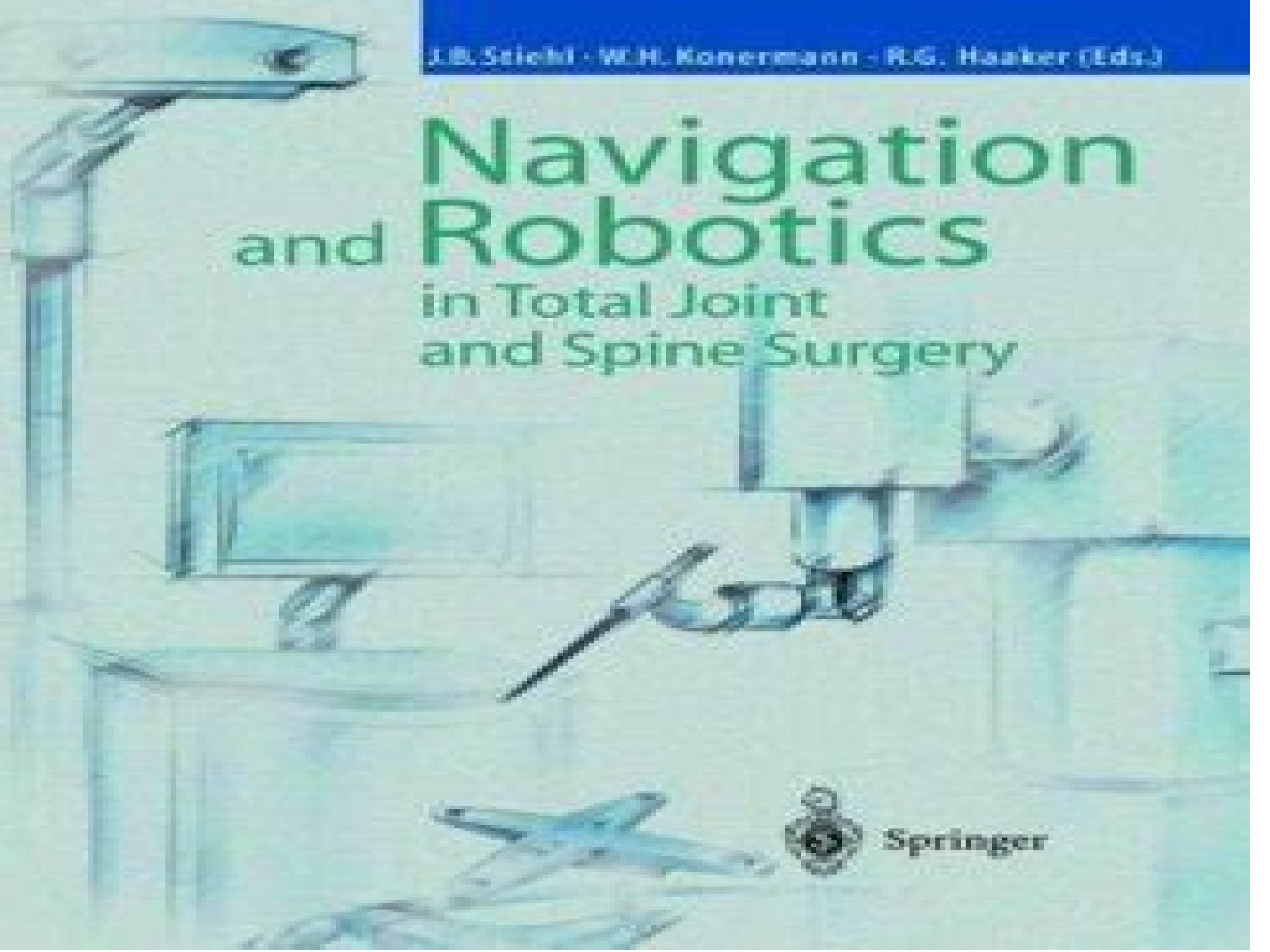


The background of the book cover is a photograph of a surgical navigation system in use. A large, articulated arm with a camera or sensor at the end is positioned over a patient's leg, which is held in a surgical frame. The scene is set in an operating room with various medical equipment visible in the background.

J.B. Seidel · W.H. Konermann · R.G. Haaker (Eds.)

Navigation and Robotics in Total Joint and Spine Surgery



Springer

Navigation And Robotics In Total Joint And Spine Surgery

**William Hozack, Javad Parvizi, Benjamin
Bender**



Navigation And Robotics In Total Joint And Spine Surgery:

Navigation and Robotics in Total Joint and Spine Surgery James B. Stiehl, Werner H. Konermann, Rolf G. Haaker, 2012-12-06 This book reviews the recent international experience with the applications of computer assisted orthopaedic surgery in clinical practice Recent decades of the human condition have witnessed the dramatic evolution of technology and the application to everyday existence The ability to use such innovation in surgical practice is now easily within our grasp Though clinical experience is short term as will be demonstrated the problems are finite and limited only by the need for refinement We can now clearly state that current surgical practice will be revolutionized by these new methodologies This edition is all encompassing for musculoskeletal surgery including the spine trauma sports and reconstructive surgery Because of its simplicity computer navigation will be an early tool in such areas as total joint replacement anterior cruciate ligament reconstruction and placement of pedicle screws in complex spinal surgery New techniques in Minimally Invasive Surgery will require the precision and digital surgical exposure offered by the computer However we anticipate in a few years that robotics with computer activated technology will rise to an important role for the practicing surgeon Surgeons who are comfortable with technology and yearn for better solutions with their techniques will benefit from the knowledge of this experience Americans at the AAOS 2003 annual meeting in New Orleans have now joined the wave of enthusiasm for computer assisted orthopaedic surgery CAOS as well as the exciting new vistas of Minimally Invasive Surgery

Navigation and Robotics in Total Joint and Spine Surgery James B. Stiehl, Werner H. Konermann, Rolf G. Haaker, 2012-04-08

Knee Surgery using Computer Assisted Surgery and Robotics Fabio Catani, Stefano Zaffagnini, 2013-01-04 This book discusses the full range of current applications of computer assisted surgery and robotics in the field of knee surgery and also considers potential future applications The impact of computer assisted surgery on a wide range of surgical procedures is clearly explained Procedures considered include total knee arthroplasty unicompartmental knee arthroplasty cruciate ligament reconstruction patellofemoral arthroplasty and revision surgery In each case technical aspects are thoroughly addressed in a readily understandable manner Knee Surgery Using Computer Assisted Surgery and Robotics will be an ideal guide to this exciting field for both novice and more experienced surgeons who treat knee injuries and disorders

Navigation and MIS in Orthopedic Surgery James B. Stiehl, Werner H. Konermann, Rolf G. Haaker, A.M. DiGioia, 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.

Navigation Assisted Robotics in Spine and Trauma Surgery Wei Tian, 2020-05-27. The book introduces the use of navigation-assisted robotic systems in orthopedic surgery. The system is based on real-time 3D navigation. In the first part, it covers spine surgery, which includes pedicle screw fixation on cervical, thoracic, lumbar, and sacral screw fixation. Margerl screw fixation, PVP, PKP, and MED. The second part is about trauma surgery, which covers screw fixation in pelvis fracture and acetabulum fracture. This book is mainly written for spine surgeons, neurosurgeons, and traumatic orthopedic surgeons.

Surgical Treatment of Hip Arthritis: Reconstruction, Replacement, and Revision E-Book William Hozack, Javad Parvizi, Benjamin Bender, 2009-10-12. **Surgical Treatment of Hip Arthritis: Reconstruction, Replacement, and Revision** by William J. Hozack MD is a state-of-the-art reference that addresses the challenging issues you face in this rapidly growing segment of orthopaedic practice. Inside you will find top surgical management strategies for all types of hip arthroplasty presented by leaders from around the world, along with discussions of possible complications, risks, and benefits to specific patient populations and more. Best of all, this resource also offers access to a companion website where you will find the full text of the book completely searchable. Includes online access to the full text at expertconsult.com for convenient anytime, anywhere reference. Presents state-of-the-art surgical management strategies for hip arthritis from reconstruction to replacement to revision by experts worldwide for comprehensive guidance in one convenient resource. Offers current information on computer-assisted navigation techniques and minimally invasive techniques to equip you with the latest surgical options. Provides extensive discussions of the management of a full range of complications to help you overcome the challenges you will face. Addresses the rationale for and management of revision surgery given specific patient problems and intraoperative issues, enabling you to make the best informed surgical decisions. Presents more than 600 illustrations, including original line art, radiologic images, and full-color intraoperative photos that show you exactly what to look for and how to proceed.

The Knee Giles R. Scuderi, Alfred J. Tria, 2010. This book covers all the basics of the knee for practicing orthopedic surgeons and residents who are finishing their training and preparing for the board examinations. The text begins with chapters on the anatomy, physical examinations, and imaging, before proceeding on to pediatric considerations, arthroscopic techniques, ligament injuries, trauma, reconstructions, and the future of knee replacement surgery. There are many textbooks on the knee, but no recent one has addressed the entire area of the knee from start to finish.

Insall & Scott Surgery of the Knee E-Book W. Norman Scott, 2011-09-09. Online and in print. Insall 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

Reconstructive Knee Surgery Douglas W. Jackson, 2008 The newly expanded edition of this highly acclaimed volume describes the latest techniques for reconstructive knee surgery The worlds foremost experts share their preferred techniques in step by step detail and offer tips for improving results The book is thoroughly illustrated with full color sequential intraoperative photographs

Rotatory Knee Instability Volker Musahl, Jón Karlsson, Ryosuke Kuroda, Stefano Zaffagnini, 2016-09-27 This book is designed to equip the reader with the knowledge and tools required for provision of individualized ACL treatment based on the best available evidence All major aspects of the assessment of rotatory knee instability are addressed in depth A historical overview of arthrometers both invasive and non invasive is provided and newly developed devices for the measurement of rotatory knee laxity are considered Recent advances with respect to the pivot shift test are explained and evidence offered to support a standardized pivot shift test and non invasive quantification of the pivot shift Specific surgical techniques for rotatory laxity are described with presentation of the experience from several world renowned centers In addition functional rehabilitation and return to play are discussed In keeping with the emphasis on an individualized approach the book highlights individualization of surgical reconstruction techniques in accordance with the specific injury pattern and grade of rotatory knee laxity as well as the use of individualized rehabilitation techniques Numerous high quality images illustrate key points and clear take home messages are provided

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