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Endoscopic Spine Surgery

Arthroscopy and Endoscopy of the Foot and Ankle

Elbow Arthroscopy

Cervical Laminoplasty

Anesthesiologist's Manual of Surgical Procedures

Endoscopic Spinal Surgery

Modern Arthroscopy

Thoracoscopic Spine Surgery

Minimally Invasive Surgery of the Lumbar Spine

Ankle Arthroscopy

The success of any spinal operation depends on good definition of the indications, consideration of the contraindications, technical and organizational factors, good operating technique and correct preoperative preparation and positioning of the patient. These points are presented in this book as clearly as possible and are illustrated with detailed high quality artwork.

Percutaneous Lumbar Discectomy

Primary and incisional ventral hernias are common conditions often encountered in surgical practice. Because of the frequency of this problem it has come to be managed by surgeons in general, regardless of the type of hospital or the conditions dealt with in their daily practice. Laparoscopic surgery has demonstrated to have an important role among the different technique described to repair ventral hernia with less recurrent rate, less morbidity and less overall cost than open conventional repair, with all the advance of the laparoscopic approach. As a result the indications for this surgical technique are currently being debated since the advantages are evident and progressive implementation is ensured. Now is the time to analyze the usefulness, results, technical variants, anatomic, physiologic and scientific basis and implications involved in implementation of laparoscopy as the technique of choice.

Advanced Procedures for Pain Management

Ankle injuries are often sport related and pose a diagnostic and therapeutic challenge. Over the past 25 years, Niek van Dijk, founder of the Amsterdam Foot and Ankle School and author of this book, has developed a new philosophy of ankle arthroscopy. It entails a comprehensive approach which includes various diagnostic strategies and the application of a number of minimally invasive endoscopic techniques. Use of these techniques has spread throughout the world; they are now recognized as the state of the art and have been used to treat many leading professional athletes. This diagnostic and operating manual presents the Amsterdam Foot and Ankle School approach for a wide variety of ankle and hindfoot problems. Clear step-by-step instructions are provided with the help of numerous high-quality illustrations, most of which are in color. Access to a web-based educational site is also available to readers.

Arthroscopic and Endoscopic Spinal Surgery

The term “minimally invasive spinal surgery” was coined in early 1990 following publication of the first edition of this text entitled Arthroscopic Microdiscectomy: Minimal Intervention in Spinal Surgery, and subsequent establishment of the International Society for Minimal Intervention in Spinal Surgery (ISMISS) under the auspices of the International Society of Orthopaedic Surgery and Traumatology (SICOT) in April 1990. The orthopedic and neurological surgeons who participated in lectures and hands-on workshops both in Philadelphia and abroad have witnessed the evolution of minimally invasive spinal surgery from blind nucleotomy to endoscopic fragmentectomy, decompression of lateral recess stenosis, foraminoplasty, and spinal stabilization. In Arthroscopic and Endoscopic Spinal Surgery: Text and Atlas, Second Edition, experts describe and illustrate various techniques and approaches that are currently used in this field. In addition, the ongoing research for the betterment of spine care via minimally invasive approaches is briefly reviewed. I would like to express my
sincere appreciation to so many of my colleagues who supported my efforts in the field of minimally invasive spinal surgery throughout the years. Many of them participated in our teaching symposiums and have provided valuable contributions to this text.

Hip Preservation Surgery This book is a superbly illustrated guide to the latest endoscopic approaches employed in surgery to the lumbar spine. In the past, spinal endoscopic surgeries have been performed mainly in the treatment of lumbar disc herniation, but indications have now expanded owing to breakthroughs in surgical methods and instruments. Furthermore, in addition to the traditional percutaneous transforaminal approach, various other approaches are now feasible, including the posterior, paraspinal, transpedicular, and contralateral. This book describes and illustrates the full array of approaches in indications including lumbar central stenosis, lumbar foraminal stenosis, and lumbar disc herniation. Detailed guidance is also provided on endoscopic lumbar interbody fusion, covering the oblique, uniportal, and biportal approaches. Supplementary surgical videos further facilitate understanding and execution of the described procedures. Written by expert spinal endoscopy surgeons with extensive practical experience and a record of academic achievement, the book will be an ideal aid for spine surgeons at all levels of experience.

Surgery for Low Back Pain

Full Endoscopic Lumbar Discectomy This book, which derives from an initiative of the Education Committee of The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), addresses all aspects of elbow arthroscopy. Anatomy is thoroughly introduced, referencing safe portals and describing techniques to minimize risk of complications. Subsequent chapters focus on the use of arthroscopy in a range of conditions, including osteochondritis dissecans, stiff elbow, epicondylitis, elbow instability, and elbow fractures. Guidance is provided on diagnosis and indications for arthroscopy, and arthroscopic technique is clearly detailed. A key chapter describes complications and how to avoid them. The authors are experts and pioneers in the field from North America, Australia, and Europe who have in common the ability to teach complex procedures in a simple way. This book will be an invaluable aid for the developing surgeon and an excellent reference for the experienced surgeon.

Anesthesia for Spine Surgery This book offers practical guidance on all procedures that may be performed within the field of hip preservation surgery, arthroscopy, and endoscopy. European experts share their experiences on everything from basic injections to the most challenging hip procedures, offering step-by-step tutorials and highlighting important tips and tricks. Whereas most books on hip arthroscopy and hip preservation surgery concentrate on pathologies, surgical indications, and the basics of the treatment, here the focus is very much on the individual techniques and recognized variants. These techniques are clearly and precisely described with the aid of a wealth of photo and video illustrations. The coverage encompasses procedures applicable in the widest range of scenarios, including synovial pathologies, labral, chondral, and bony injuries, hip impingement, dysplasia and instability, snapping hips, gluteus medius and minimus tendonitis and tears, other tendinopathies, post-arthroplasty complications, and rehabilitation. The book is published in cooperation with ESSKA and will be an essential aid for orthopaedic surgeons at all levels of experience.

Endoscopic Procedures on the Spine Minimally Invasive Spine Surgery is a beautifully illustrated atlas describing the 18 most widely accepted minimally invasive procedures in spine surgery. Written by leaders in both neurologic and orthopedic spine surgery, this book offers the most up-to-date material and the broadest perspective on the subject. Procedures range from simple to complex and cover the cervical, thoracic and lumbar regions of the spine.

Laparoscopic Ventral Hernia Repair This book aims to familiarize readers with the overall scope of endoscopic surgeries for the treatment of various types of spinal disease. State of the art techniques for minimally invasive endoscopic procedures to the cervical, thoracic, and lumbar spine are precisely described. The coverage includes cutting-edge endoscopic solutions for spinal canal stenosis or instability and low back pain. All technical aspects are explained in detail, and the text is complemented by many helpful illustrations. A further key feature is the provision of accompanying surgical videos, which will be of value to both novice and experienced surgeons. As a result of recent technological advances, minimally invasive endoscopic procedures are now being used for the treatment of patients with spinal problems in various institutes across the world. It can be anticipated that, in the near future, these procedures will be regarded as mainstream in spine surgery. The authors hope that this book will motivate the reader to participate in this trend, which
promises important benefits for patients.

Over the past decade, minimally invasive techniques have developed rapidly and are widely applied in the management of spine disorders. With the development of enabling technologies, including specifically designed spinal retractor systems, intraoperative imaging and navigation technologies, and real-time neural monitoring, minimally invasive spine surgery (MISS) techniques are safe, effective and reproducible. Indeed, studies have confirmed the clinical and economic advantages of these procedures. Minimally Invasive Spine Surgery includes detailed discussions of enabling technologies, surgical techniques (including posterior decompression and fusion), approaches to specific diseases and conditions, as well as strategies to manage the unique risks and complications of MISS. Generously illustrated, this will be an essential reference for orthopedic surgeons, neurosurgeons and all health care professionals who treat the spine.

Modern Techniques in Spine Surgery Low back pain is a very common problem that is increasingly being treated surgically. This book aims to evaluate carefully the possible surgical approaches to low back pain, with detailed appraisal of the factors leading to their success or failure. It begins by explaining the scientific basis for surgery and considering the different diagnostic techniques that may be employed, thereby elucidating the surgical rationale, indications, and contraindications. The value of conservative options is also assessed to help the reader weigh the need for surgery. The various surgical modalities, including the most recent, are then fully described and evaluated with the aid of numerous illustrations. The book concludes with a chapter devoted to evidence-based analysis of the outcome of surgery in patients with low back pain. This book will be invaluable to orthopaedic and neurosurgeons, rheumatologists, neurologists, and all who are concerned with the effective treatment of this often debilitating condition.

Manual of Spine Surgery Thoroughly revised to present the very latest in PACS-based multimedia in medical imaging—informatics—from the electronic patient record to the full range of topics in digital medical imaging—this new edition by the founder of PACS and multimedia image informatics features even more clinically applicable material than ever before. It uses the framework of PACS-based image informatics, not physics or engineering principles, to explain PACS-based multimedia informatics and its application in clinical settings and labs. New topics include Data Grid and Cloud Computing, IHE XDS-I Workflow Profile (Integrating the Healthcare Enterprise Cross-enterprise Document Sharing for Imaging), extending XDS to share images, and diagnostic reports and related information across a group of enterprise health care sites. PACS-Based Multimedia Imaging Informatics is presented in 4 sections. Part 1 covers the beginning and history of Medical Imaging, PACS, and Imaging Informatics. The other three sections cover Medical Imaging, Industrial Guidelines, Standards, and Compliance; Informatics, Data Grid, Workstation, Radiation Therapy, Simulators, Molecular Imaging, Archive Server, and Cloud Computing; and multimedia Imaging Informatics, Computer-Aided Diagnosis (CAD), Image-Guided Decision Support, Proton Therapy, Minimally Invasive Multimedia Image-Assisted Surgery, BIG DATA. New chapter on Molecular Imaging Informatics Expanded coverage of PACS and eHR's (Electronic Health Record), with HIPPA compliance New coverage of PACS-based CAD (Computer-Aided Diagnosis) Reorganized and expanded clinical chapters discuss one distinct clinical application each Minimally invasive image assisted surgery in translational medicine Authored by the world's first and still leading authority on PACS and medical imaging PACS-Based Multimedia Imaging Informatics: Basic Principles and Applications, 3rd Edition is the single most comprehensive and authoritative resource that thoroughly covers the critical issues of PACS-based hardware and software design and implementation in a systematic and easily comprehensible manner. It is a must-have book for all those involved in designing, implementing, and using PACS-based Multimedia Imaging Informatics.

Minimally Invasive Spine Surgery Cervical laminoplasty for the treatment of ossification of the posterior longitudinal ligament was developed and refined in Japan during the 1970s. Since that time, various cervical laminoplasty techniques have been further analyzed and modified, and have proven to be clinically successful. Until now cervical laminoplasty has been practiced primarily in Japan, and surgeons outside Japan had only limited access to the detailed English literature needed to make full use of the procedures. This book fills that gap in English information and provides a detailed, up-to-date guide to performing safe and effective cervical laminoplasty. Drawing on the latest knowledge from Japan, the book covers the history of cervical laminoplasty, surgical anatomy, basic procedures, modified procedures, possible complications, and perspectives on the future of expansive laminoplasty. This volume by leaders in the field is an excellent guide for all surgeons interested in laminoplasty.
Arthroscopic and Endoscopic Spinal Surgery Text and Atlas

Arthroscopy and Endoscopy of the Elbow, Wrist and Hand Minimally Invasive Spine Surgery combines up-to-date research on surgical techniques with high-definition surgical video and concise algorithmic evidence. Each of its sixteen chapters begins with a brief summary followed by imaging indications, instrumentation, a step-by-step surgical approach (and video guide), as well as the potential complications and adverse outcomes that may develop. Techniques discussed in the text include: Posterior Cervical Foraminotomy; Percutaneous Posterior Pedicle Screw Placement; Lumbar Discectomy; Transforaminal Lumbar Interbody Fusion (TLIF); Lateral Lumbar Interbody Fusion (LIF). Also included is a discussion on the types of implants and instrumentation available today and the potential advantages they offer, making Minimally Invasive Spine Surgery an essential and relevant book for orthopaedic and neurosurgeons. Key Points Authored by experts from Rush University Medical Centre and Thomas Jefferson University Hospital in the United States Includes DVD to enhance clinical instruction 273 full colour illustrations

Advanced Techniques of Endoscopic Lumbar Spine Surgery Edited by Sudhir Diwan, a former Director of Pain Medicine fellowship program at Ivy League Weil Cornell Medical College, and Timothy R. Deer, an internationally renowned expert in neuromodulation and minimally invasive spinal procedures, this atlas covers advanced procedures that normal residency and fellowship programs may not cover. It consolidates information pain fellows usually amass by traveling throughout the country to various specialized weekend courses. Advanced Procedures for Interventional Pain Management: A Step-by-Step Atlas is for physicians that know the fundamentals of pain medicine and want to push their knowledge further. Through easy-to-digest bullet points, extensive diagrams, hundreds of figures, and expanded legends beneath each illustration, this compendium covers techniques such as fluoroscopic guidance and radiation safety, endoscopic transforaminal discectomy, endoscopic direct-percutaneous discectomy, transforaminal myelogram, percutaneous facet fusion, percutaneous sacroplasty, vertebral augmentations, percutaneous tumor ablation, percutaneous spinal fusion, minimally invasive spinal decompression (MILD), Interspinous Spacer Placement and advanced neuroaugmentation techniques like high frequency stimulation and DRG stimulation. This book also has a dedicated section on Regenerative Medicine with chapters on platelet rich plasma, stem cell therapy, and intradiscal regenerative therapy. Each chapter has a strict chapter format that includes the indications and contraindications for each procedure, a list of equipment and drugs, a step-by-step illustration-focused how-to, a list of possible post-procedural complications, and bullet-pointed clinical pearls and pitfalls. Within each chapter the authors will also cover the variations of each procedure due to different equipment. This book is ideal for pain medicine fellows, spine surgeons, and interventional pain physicians who want access to the best minds and specialized procedures in a single package.

PACS-Based Multimedia Imaging Informatics Endoscopic technology has advanced to the point where practitioners can now access, visualize, and treat spine pathologies previously only accessible through open surgical approaches. Endoscopic Spine Surgery 2nd Edition provides a comprehensive background on endoscopic spine surgery and covers an unparalleled number of minimally invasive spine procedures that have revolutionized the spine treatment paradigm. Readers will greatly benefit from many years of expertise and wisdom shared by master spine surgeons Daniel Kim, Gun Choi, Sang-Ho Lee, and Richard Fessler, and their expert contributors. Due to the narrow endoscopic view, subtle microanatomical differences in the lumbar, thoracic, and cervical regions are not always easy to visually discern. To address this challenge, the book contains detailed procedural descriptions and images mirroring endoscopic views spine surgeons encounter in the OR. Organized anatomically, 53 chapters guide readers systematically through lumbar, thoracic, cervical, and craniovertebral junction procedures for pathologies ranging from low back pain and deformities to tumors, lesions, infections, and trauma. Key Features More than 1000 high quality images including color procedural photographs and medical illustrations provide in-depth visual understanding. Spinal pathologies and procedures delineated in 75 videos accessible via the Media Center - from case studies to step-by-step technique tutorials. Covers the full spectrum of spine endoscopy including percutaneous approaches, microdiscectomy, laminectomy, discectomy foraminotomy, hemilaminectomy, thoracic decompressions, fusion, fixation, and thoracoscopic procedures. The use of state-of-the-art technology such as ultrasonic bone dissectors, endoscopic radiofrequency denervation, the video telescope operating monitor (VITOM), minimally invasive tubular retractors, and 3D stereo-tubular endoscopic systems. Neurosurgical and orthopaedic residents, spine fellows, and seasoned spine surgeons will all greatly benefit from the significant knowledge and insights revealed in this remarkable multimedia resource. This book may also be of interest to neurosurgical and orthopaedic nurses, physical therapists, chiropractors, and medical device professionals.

Arthroscopic Microdiscectomy 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.

Epiduroscopy This book is devoted to the full endoscopic transforaminal approach, which is the beginning and basis of all spinal endoscopic interventions and was prepared digitally in Epub-3 format. It is planned to appeal to neurosurgeons and orthopedic surgeons who are new to or currently practicing endoscopic surgery. We gave wide coverage to endoscopic anatomy of the intervertebral foramen, the basis of a successful transforaminal intervention. All anatomical studies in the literature were reviewed and the anatomical structures that make up the intervertebral foramen were presented to the reader with endoscopic surgery videos. We hope that these videos will, to some extent, fill the lack of visual material in the field of endoscopic surgical anatomy. Preoperative planning is discussed under a separate chapter. Preoperative planning for different cases is clarified in detail and supported by rich radiology galleries. The basic stages of surgical intervention (spinal needle placement, discography, guiding rod and cannula placement) are presented to the reader with anatomical models combined with surgical videos. Lumbar disc herniations are discussed in separate groups as non-migrated, migrated and extraforaminal herniations. To that end, the videos of 22 surgeries performed on 19 patients were included in the book as the case studies. In these case studies, pre-operative and post-operative radiological examinations of patients are presented to the reader in the galleries. Operative videos were specially edited and enriched with operative X-Ray images to provide anatomical orientation of the reader. Another feature of the book is its format. The frequently used hard copy format puts the authors from using sufficient visual material. Using excessive visual material especially in textbooks where radiological studies are predominant, breaks the connection between images and text and puts the reader in a challenging reading process. Current digital book formats, on the other hand, oblige the reader to constantly access the video over the internet and then return to the text. All visual material in Epub-3 format used in our book is embedded in the book. Thus, the reader can access any material in the text without an internet connection and without being distracted from the text and can watch the visual material on a full screen if desired. The Epub-3 format also makes it easier for the reader to navigate and search within the book. In addition, when the reader downloads the book, they have the opportunity to read it offline on their phone, tablet, or laptop whenever they desire. Detailed info and example videos: www.endotextbook.com www.endodiscectomy.com Key features: 56 Galleries 72 Videos (Anatomy, preoperative planning, needle/cannula placement, surgical technique) 22 operative videos from 19 cases 3-D Drawings Model videos combined with surgery EPU B-3 Format Single format for both android and IOS Contents: CHAPTER 1. HISTORY CHAPTER 2. NOMENCLATURE and DEF NITION CHAPTER 3. ENDOSCOPIC ANATOMY CHAPTER 4. PREOPERATIVE PLANNING CHAPTER 5. SURGICAL APPROACH CHAPTER 6. NON MIGRATED HERNIATIONS CHAPTER 7. FORAMINAL AND EXTRAFO RAMINAL HERNIATIONS CHAPTER 8. MIGRATED HERNIATIONS CHAPTER 9. COMPLICATIONS REFERENCES

Minimally Invasive Spine Surgery Focusing on the most current, cutting-edge, innovative, and advanced arthroscopic techniques for wrist and hand, elbow, shoulder, hip, knee, ankle, foot, and spine, this book presents orthopaedic surgeons with the detailed procedures needed to stay competitive in the age of managed care. With contributions from specialist leaders in orthopaedic and arthroscopic surgery, the text is supplemented by full-color arthroscopic views and custom illustrations, detailing complex procedures for rotator cuff tear, TFCC repair, meniscus repair, ACL reconstruction, intraarticular fractures and many others. Special sections on laser applications in arthroscopy and office arthroscopy make this volume a must for every practicing orthopaedic surgeon.

Spinal Instability Endoscopic spine surgery essentials from expert spine surgeons Atlas of Full-Endoscopic Spine Surgery by internationally renowned spine surgeons Christoph Hofstetter, Sebastian Ruetten, Yue Zhou, and Michael Wang provides concise, step-by-step guidance on the latest full endoscopic spine procedures. The book is targeted at practicing spine surgeons, fellows, and residents currently not trained in endoscopic spine surgery who have the desire to learn and incorporate these techniques into clinical practice. It is also an excellent curriculum resource for cadaveric training courses taught at the national and international level. The book lays a solid foundation with opening chapters on anesthesia, OR setup and
endoscopic tools, applied anatomy, basic endoscopic surgical tasks, and preoperative diagnostics. Additional sections include step-by-step descriptions of the full spectrum of cervical, thoracic, and lumbar endoscopic approaches. The last section provides invaluable pearls on overcoming challenges, avoiding pitfalls, and optimizing postoperative care. Key Features Transforminal endoscopic lumbar and thoracic disectomy approaches Trans-SAP endoscopic approach for foraminal and lateral recess decompression Interlaminar endoscopic lumbar disectomy Cervical/thoracic and lumbar unilateral laminotomy for bilateral decompression Special topics including endoscopic management of challenging cases, endoscopic revision surgery, and management of complications. Neurosurgery residents, fellows, young practicing neurosurgeons, and all healthcare practitioners involved in the care of endoscopic spine surgery patients will gain invaluable insights from this book.

Regional Arthroscopy From the worldwide leader in equine surgery, Wayne McIlwraith, comes the new fourth edition of Diagnostic and Surgical Arthroscopy in the Horse. Completely revised and expanded, this comprehensive atlas covers all the need-to-know information within equine arthroscopy: instrumentation, general techniques, carpal joints, metacarpal and metatarsophalangeal joints, and tarsocrural joints. All the advances that have taken place in the field over the last decade are covered, particularly in the areas of postoperative management and rehabilitation. This trusted reference also provides an in-depth view of surgical procedures with new high-definition diagnostic and surgical arthroscopic images, as well as radiographs and composite illustrations. There is no better way to learn and master equine surgical procedures! Diagnostic images with side-by-side radiographs and illustrations offer multiple points of view and directional guidance on surgical procedures. Expert authorship features helpful insights and expertise from the worldwide leader and speaker on equine arthroscopy, Wayne McIlwraith. Specially commissioned artwork clearly illustrates local anatomy and key stages of surgical procedures. Coverage of choice, use, and maintenance of equipment provides a basic understanding of arthroscopic technique and reasoning behind various practices. Content dedicated to diagnostic and surgical arthroscopy of the horse provides authoritative, comprehensive information on this specialized subject. NEW! Updated high-definition images provide a crystal clear view of surgical procedures from multiple views. NEW! Companion website features 48 high-resolution digital videos that link back to the textbook for a vivid demonstration of surgical techniques. NEW! Expanded content ensures you are up to date on the latest developments in the field — particularly in the areas of tenoscopy, bursoscopy, and arthroscopic methods for cartilage repair. NEW! Chapter on postoperative management, adjunctive therapies, and rehabilitation procedures keeps you abreast of best practices when it comes to taking care of the horse post-operation.

Endospine Minimally invasive procedures are increasingly utilized and are replacing open surgery to reduce scarring and pain, enhance patient recovery, and minimize cost. This guide provides step-by-step guidance, expert instruction, and detailed illustration of the most recent minimally invasive orthopedic spine procedures. With a variety of chapters covering critical developments in the field including the utilization of biologic materials, image-guided surgery, and bone fusion, this guide delves into discussions of indications, methods for preoperative planning, complication avoidance strategies, and patient outcomes.

Small Animal Endoscopy - E-Book

Advanced Arthroscopy Arthroscopy has now become the most commonly performed musculoskeletal procedure. Arthroscopy has had several beneficial effects especially in terms of reduction of morbidity and reducing and in many cases eliminating the need for hospitalization. It all began with the knee surgeries and even today the most common arthroscopic procedures are performed in knee and yet arthroscopic surgeries performed for other regions right from temperomandibular joint down to the subtalar joint have replicated the success shown in knee surgeries. They are gradually becoming popular and this book intends to describe the tips and tricks employed by the experts in their respective field for benefit of the residents and fellows. This book has brought the experts in the field of the arthroscopy who have written the chapters concerning various regions viz Temporomandibular joint, Shoulder, Wrist, Lumbar Spine, Knee, Ankle, and the Subtalar Joint. The focus has been on delivering key surgical points that will help ensure that learning is seamless.

Handbook of Robotic and Image-Guided Surgery A well written, insightfully organized text of an advanced surgical technique that will assist any spine surgeon looking to learn or perfect this endoscopic procedure. -- ANS Young Neurosurgeons Newsletter Endoscopic Spine Procedures combines the vast experience of internationally recognized spine surgery experts and provides detailed coverage of operative techniques for
the cervical, thoracic, and lumbar spine. The book begins with an overview of the principles of percutaneous endoscopic spine surgery followed by a detailed discussion of applied anatomy, surgical approaches and techniques, and potential complications for the different spine regions. Each chapter contains concise, step-by-step descriptions of the procedures enhanced by clearly labeled illustrations. Features: Bullet-point format enables rapid reference prior to surgery. 19 high-resolution videos -- one for every procedure described in the book -- appear on an accompanying MediaCenter web page. 694 high-quality illustrations prepare readers for surgery, including radiographs, full-color endoscopic views, detailed drawings, and 3-D surgical views. Clinical cases demonstrate how to tell the differences between spine levels and between disease states. This concise technical guide is an essential resource for neurosurgeons, orthopedic surgeons, interventional radiologists, or anyone involved in the care of patients with spine disorders.

Minimally Invasive Spine Surgery

Minimally invasive techniques are now the preferred method for spine surgery because the incision is much smaller, causing less damage to surrounding muscles, pain is usually greatly reduced, and recovery time is faster. This book is a practical guide to minimally invasive diagnostic and surgical techniques for spine operations. Beginning with an overview of spinal anatomy and the basics of minimally invasive surgery, the following chapters examine the management of numerous different spinal conditions. A complete chapter is dedicated to patients with spinal cord injury and rehabilitation. More than 200 clinical photographs, diagrams and tables enhance the comprehensive text, making it an invaluable resource for both trainees and practicing spine surgeons. Key points: Comprehensive guide to minimally invasive spine surgery. Covers diagnosis and treatment of numerous spinal disorders. Complete chapter dedicated to spinal injury and rehabilitation. Includes more than 200 photographs and illustrations.

Diagnostic and Surgical Arthroscopy in the Horse - E-Book

Modern Arthroscopy will assist practitioners to stay current in the rapidly changing field of arthroscopic surgery. The chapters in this book were written by a panel of international experts in the various disciplines of arthroscopy. The goals of this text are to present the classical techniques and teachings in the fields of Orthopaedics and Dentistry, but also to include new, cutting-edge applications of arthroscopy, such as temporomandibular arthroscopy and extra-articular arthroscopy of the knee, just to name a few. We hope Modern Arthroscopy becomes a core reference for your arthroscopic surgery practice.

An Anatomic Approach to Minimally Invasive Spine Surgery

A comprehensive guide to anesthesia specifically for spine surgery, explaining procedures from the point of view of both anesthesiologists and surgeons.

Endoscopic Spine Procedures

Learn state-of-the-art MIS techniques from master spine surgeons! Significant advances have been made in minimally invasive spine (MIS) surgery approaches, techniques, and innovative technologies. By preserving normal anatomic integrity during spine surgery, MIS approaches enable spine surgeons to achieve improved patient outcomes, including faster return to normal active lifestyles and reduced revision rates. Exposing only the small portion of the spine responsible for symptoms via small ports or channels, requires a deep understanding of spinal anatomy and spinal pathophysiology. Building on the widely acclaimed first edition, An Anatomic Approach to Minimally Invasive Spine Surgery, Second Edition, provides an expanded foundation of knowledge to master minimally invasive spine surgery. World-renowned spine neurosurgeons Mick Perez-Cruet, Richard Fessler, Michael Wang, and a cadre of highly regarded spine surgery experts provide masterful tutorials on an impressive array of cutting-edge technologies. Organized by seven sections and 51 chapters, the book presents a diverse spectrum of current safe and efficacious MIS procedures and future innovations. Nonsurgical approaches include injection-based spine procedures and stereotactic radiosurgery. Surgical technique chapters discuss MIS anterior, posterior, and lateral approaches to the cervical, thoracic, and lumbar spine, with procedures such as endoscopic microdiscectomy, vertebroplasty and kyphoplasty, percutaneous instrumentation, and robotic spine surgery. Key features: Step-by-step illustrations, including more than 400 depictions by master surgical and anatomic illustrator Anthony Pazos; portray the surgeon's-eye-view of anatomy, intraoperative images, and surgical instruments, thereby aiding in the understanding of anatomy and procedures. 20 online videos feature real-time operative fluoroscopy, pertinent anatomy, operative set-up, and common cervical, thoracic, and lumbar approaches. Discussion of novel MIS techniques reflected in 16 new or expanded chapters, including Robotic Assisted Thoracic Spine Surgery and Stem-Cell Based Intervertebral Disc Restoration. There is truly no better clinical reward for spine surgeons than giving patients suffering from debilitating spinal disorders their life back. This quintessential MIS surgery resource will help surgeons and clinicians accomplish that goal.
Endoscopic Spine Surgery Endoscopy of the spinal canal – epiduroscopy (EDS) – has proven to be a safe, efficient and future-oriented interventional endoscopic procedure for everyday clinical use in diagnosing and managing pain syndromes. Epiduroscopy can be used in the sacral, lumbar, thoracic and even cervical regions of the spine to identify pathological structures, carry out tissue biopsies and perform epidural pain provocation tests to assess the pain relevance of visualized anomalies, making it an excellent diagnostic tool. Spinal endoscopy allows targeted epidural analgesic pharmacologic therapy for affected nerve roots or other painful regions in the epidural space. Treatment options provided by epiduroscopy include laser-assisted adhesiolysis or resection of pain-generating fibrosis, catheter placement, as well as support with other invasive procedures for pain relief. Professional EDS management enhances a multimodal philosophy and opens up new treatment strategies for patients. If used early on, it can control pain well before chronicity sets in.

Arthroscopy and Endoscopy of the Foot and Ankle 150 contemporary barbecue dishes, sauces and condiments by award-winning barbecue chef and firefighter David Veljacic.

Elbow Arthroscopy In the past few years spine surgery has undergone revolutionary changes leading towards minimally invasive techniques. This book is a survey of microsurgical as well as endoscopic surgical techniques for the treatment of a variety of spinal disorders. The structure of the individual chapters includes terminology, history, surgical principles, advantages/disadvantages, indications, surgical technique, complications and hazards as well as results. However all chapters are focused on a very didactic presentation of surgical steps. Thus, the reader will get familiar with a variety of new techniques some of which are already integrated into clinical routine others still being part of ongoing clinical trials and development.

Cervical Laminoplasty Covering both surgical and anesthetic considerations, A Anesthesiologist's M anual of Surgical Procedures, Sixth Edition, is an essential resource for formulation of an anesthetic plan and perioperative management of patients. All chapters are written by both surgeons and anesthesiologists, giving you a detailed, real-world perspective on the many variables that accompany today’s surgical procedures.

A anesthesiologist's M anual of Surgical Procedures Percutaneous lumbar discectomy is a new surgical method for treating lumbar disc diseases. The goal of the procedure is decompression of the spinal nerve root by percutaneous removal of the nucleus pulposus under local anesthesia. Probably 20 % of all patients requiring lumbar disc surgery can be successfully treated by this method. During the past two years, percutaneous discectomy has spread rapidly, and it is now performed in most clinical departments engaged in spinal surgery. The first International Symposium on Percutaneous L umbar Discectomy, held in Berlin in August 1988, covered all current procedures known as "percutaneous discectomy" and the entire range of percutaneous techniques, both clinical and experimental. Its publication is important because of the recency of this new surgical procedure, the outstanding experience of the speakers - including the Japanese, American, and European "pioneers" of the technique - and last but not least the gaps in the knowledge of physicians concerning this topic. This procedure opens up new perspectives in the surgical treatment of degenerative diseases of the lumbar spine.

Endoscopic Spinal Surgery The latest edition of the critically acclaimed Small A nimal Endoscopy presents informative, practical, and up-to-date guidance on endoscopic indications, instrumentation, patient preparation, and techniques. Todd R . Tams and Clarence A . Rawlings, the foremost experts in veterinary endoscopy, provide the novice as well as the advanced practitioner with the information needed to deliver the safest, high-quality endoscopic services for small animals, including avian and exotics. Chapters are organized consistently and lavishly illustrated to help you easily find and understand key concepts and procedures. This edition includes a companion website with expert demonstrations of techniques. Enables you to deliver the safest, high quality care and a wider range of services to the pets of increasingly concerned and savvy owners. Features cutting-edge information on minimally invasive procedures to improve diagnostic accuracy, reduce operating time, improve success, minimize post-operative stress and pain, and promote faster healing. Helps you recognize the many indications for endoscopy in everyday practice. Covers a vast range of topics in a clear, concise and readable style. Describes instrumentation, examination, and sample procurement techniques in detail. Shows both normal and abnormal findings you may encounter during a procedure in an atlas of images in relevant chapters. Provides minimally invasive examination and surgical options for veterinarians treating uniquely sensitive avian and exotic patients. Provides step-by-step instructions on specific techniques. Helps beginners master endoscopic diagnosis and treatment and more experienced endoscopists utilize their endoscopic equipment to its fullest capacity.
Modern Arthroscopy

Thoracoscopic Spine Surgery In this volume, world authorities on spinal surgery from the fields of Neurosurgery, Orthopaedic Surgery, and Neuroscience present current data on the basic science and clinical management of the unstable spine. Unique to this book: a frank presentation of controversies in the field.

Minimally Invasive Spine Surgery Endoscopic Spinal Surgery provides a comprehensive, practical and timely review of the minimally invasive endoscopic surgical techniques used to treat conditions of the cervical, thoracic, and lumbar spine. Recent advances in technology, together with improved clinical outcomes, have established percutaneous endoscopic spinal procedures as alternatives to traditional open spinal surgery. This text describes the most effective endoscopic techniques currently available and discusses indications, surgical approaches, complications, and clinical outcomes. An authoritative, international team of contributors provides surgical insight and expert guidance. Provides a definitive ‘go to’ reference for spinal surgeons, orthopaedic surgeons and neurosurgeons Gives expert guidance on the full range of minimally invasive endoscopic techniques used in the management of spinal disorders, in chapters organized by spinal section Includes general chapters on instrumentation, relevant neuroanatomy, and anesthetic considerations Dedicates a chapter to classification and coding issues

Minimally Invasive Surgery of the Lumbar Spine This book provides detailed information in foot and ankle arthroscopy and endoscopy. It explores and introduces these surgical techniques for the treatment of foot and ankle diseases, which have better surgical outcome, lesser surgical morbidity over conventional open surgery. In each chapter, it includes extensive cases and techniques’ illustration about arthroscopy, tendoscopy and endoscopy. Case demonstration with well-illustrated arthroscopic and endoscopic photos for common clinical conditions was provided. It is also written in the same structure and style for each techniques. Step-by-step procedures are compiled with pictures and illustrations for easy reference, particularly for surgeons in their clinical practice.

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