Surgical Approaches To The Spine

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Percutaneous Lumbar Discectomy H. Michael Mayer 2012-12-06 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 Lumbar 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.
Advanced Robotic Spine Surgery Michael Wang 2021-09-21 Robotic spine surgery is one of the fastest growing segments of the spine surgery market. Surgeons specialising in spine surgery are highly motivated to learn and improve their understanding of the indications,application,and future clinical scope of using new technological platforms. Spinal surgeons face time pressures but are hungry for new ways to effectively treat patients. This book presents information in the case study format. By using examples of surgical cases of an advanced nature (e.g. spinal deformity, minimally invasive surgery, combinatorial technology using the robot) this will differ from other texts. Each case study is written by a well-respected expert in the field and represents that surgeon’s most monumental case. Each case contains a concise patient history with indications, contraindications and insights to help the reader assimilate expert knowledge. The case studies examine both the unique and technical aspects of robotic planning and surgical execution, and include seminal bullet point sections: Key take away points; Tips and pearls to avoid pitfalls; and "how I could have done this better.” This new text provides valuable and practical knowledge for spine surgeons and others involved in robotic surgery.
Spinal Tumor Surgery Daniel M. Sciubba 2018-10-29 This practical, step-wise text covers the surgical approaches, resection strategies and reconstruction techniques used for each type of presenting tumor of the spine. Demonstrating the variety of anterior, posterior and intradural approaches and stabilization techniques, and spanning from pathologies of the craniocervical region to sacral and intradural pathologies, each chapter is generously illustrated with figures, radiographs and intraoperative photos. The chapters themselves follow a consistent and user-friendly format: the anatomy and biomechanics of a specific region, patient evaluation, essential oncologic principles, the decision-making process, and technical steps of surgery. A representative case illustration is provided at the conclusion of each chapter, exemplifying pertinent concepts described. Additionally, video segments accompany selected chapters, providing real-time illustration of surgical techniques. Technical and in-depth, yet highly accessible, Spinal Tumor Surgery: A Case-Based Approach is an essential resource for orthopedic spine surgeons, neurosurgeons, and surgical oncologists operating on tumors of the spine.
Video Atlas of Spine Surgical Techniques Federico A. Landriel 2016-05-04 This video atlas covers a broad range of spinal surgical procedures. The volume includes a collection of high quality 3-to-8 minute videos of some of the most critical spine operations performed by internationally renowned expert surgeons. Key features of the book contents include: o Downloadable high quality video content with subtitles suitable for viewing on any display (A brief preview of the book content can be viewed at https://www.youtube.com/watch?v=SxMi4UFj7HA) o Detailed descriptions of surgical indications, preoperative planning, patient positioning, surgical technique, complications, postoperative care and outcomes for each procedure o Full color images and illustrations highlighting different key stages of each surgical technique The video format allows skill development of its intended audience by conveying temporal and spatial details which often go unnoticed in photograph format. This volume will be of immense interest to both the novice and the experienced spinal surgeon as they can benefit from the visual guides presented in the book. It also serves as an ideal teaching tool for spine surgery units in medical schools.
Surgery of Spinal Cord Tumors Based on Anatomy Chun Kee Chung 2021-01-20 This book describes and illustrates an approach to surgery for spinal cord tumors that is based on a refined concept of anatomic compartmentalization. The aim of this approach is to enable maximum preservation of spinal cord function through confinement of the surgical work to the involved compartment or compartments. Importantly, this involvement differs according to tumor type, and the classification favored by the author takes this fully into account. After introductory chapters on epidemiology and pathology, the anatomy of the spinal cord relevant to surgery for spinal cord tumors is discussed in detail and the proposed classification is clearly explained. The surgical approach to each of the identified anatomic compartments is then described, with attention to the roles of intraoperative mapping techniques, diffusion tensor imaging, and electrophysiologic studies in ensuring that spinal cord functions are spared. Examples of the author’s experience when applying the proposed approach are presented. The book is meant for neurosurgeons at all levels of experience.
Endoscopic Spine Surgery Daniel H. Kim 2018-01-10 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 craniocervical 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.
Surgery of the Spine R. Louis 2012-12-06 In this comprehensive and original monograph, Professor Rene Louis presents in minute detail in one volume the gross anatomy, nerve supply, biomechanics, and microcirculation of the spine. He also presents the surgical approaches to the vertebral bodies and their contents. Professor Louis is a great anatomist and this book has been prepared from his personal observations, both anatomical and surgical. His studies have been meticulously conducted and contain much original research, for instance his work on the motion of the neural elements within the lumbar vertebral canal. The illustrations are neady all original and very often a photograph of the neural or vascular elements is presented alongside a drawing of a given important anatomical area. For all these reasons, this inspiring treatise makes a valuable contri bution to our knowledge of the spine and forms a basis for an under standing of the intricacies of surgical anatomy and approaches. It will be especially valuable to the spinal surgeon, but the medical student, the orthopedic resident (or registrar), and the anatomist will also find it extremely useful. Leon L. Wiltse, M.D.
Best Evidence for Spine Surgery E-Book Rahul Jandial 2012-02-01 Best Evidence for Spine Surgery provides representative cases that help you determine the optimal surgical interventions for your patients. Drs. Rahul Jandial and Steven R. Garfin, and a balanced team of preeminent neurosurgeons and orthopaedists, address the trend toward a more collaborative approach between spine and orthopaedic surgery. This easy-to-read, evidence-based resource also features "Tips from the masters" for a quick review of important elements of diagnosis and treatment. Choose the best options for your patients using evidence that supports the optimal surgical intervention for each case. Apply a multi-disciplinary approach through coverage that reflects the changing nature of the specialty with chapters written by neurosurgeons and orthopaedists. Quickly review the most important elements of diagnosis through "Tips from the masters." Easily find the information you need with a consistent, case-based format that clearly presents evidence and techniques.
Orthopaedic Surgical Approaches Mark D. Miller 2014-08-14 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. 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!
An Anatomic Approach to Minimally Invasive Spine Surgery Mick J. Perez-Cruet 2018-11-07 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 Approaches to the Thoracic Spine Roque Fernandez 2018-02-08 The present work describes graphically and sumarily two of the most used surgical approaches by the Spine Surgery Service of the Hoch Taunus Klinik Bad Homburg from Germany, for the treatment of the thoracic spine pathology. This service with more than 20 years of experience in these techniques, usually receives profesionals from different parts of the world in order to become familiar with these treatments. Dr Daniel J Rosenthal implemented for the first time in his service the thoracoscopic approach for the treatment of a thoracic disc herniation in the year 1992, since then he has accumulated more than a 1000 procedures in the thoracic spine with the use of adecuatelly and endoscopically invasive techniques. The easy comprehension and description step by step make this work a useful reference material for spine surgeons, orthopedists and neurosurgeons who want less agressive alternatives when deciding on the treatment of thoracic spine pathology. As complementary audiovisual material, videos of surgical procedures performed by this team of spine surgeons are provided to the reader. Endoscopic Approaches to the Thoracic Spine. Endoscopically assisted retropleural approach & Thoracoscopic approach to the spine
Minimally Invasive Spine Surgery Frank Phillips 2014-06-23 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.
Surgical Approaches to the Spine Robert G. Watkins, III 2015-04-28 Now is its revised and expanded third edition, including nine new chapters, this step-by-step, state-of-the-art procedural manual covers over 50 unique surgical approaches for injuries and conditions of the spine. Generously illustrated, various surgical approaches to the cervical, thoracic and lumbar spine are clearly enumerated and described, including anterior, lateral, and posterior approaches and the worldwide movement toward the use of tubular retractors for a multitude of approaches. Written and edited by leaders in the field of spine surgery, this updated edition will be an invaluable resource for orthopedic surgeons, neurosurgeons and sports medicine practitioners alike.
State of the Art for Minimally Invasive Spine Surgery A. Dezawa 2006-03-20 The second congress of the Paci?c Asian Society of Minimally Invasive Spine Surgery (PASMISS) held in Phuket,Thailand,August 5–6,2002,was highly s- cessful. Dr.Akira Dezawa, the president, had worked hard in organizing the congress,which was well attended.All scienti?c papers presented were of the highest standard and were worthy of publication in book form.This scienti?c meeting brought to light the practice of this modern surgical technique as it is being performed by spine surgeons in the Asia–Paci?c region.Dr.Dezawa has made a great effort to collect the papers from the congress,and to have them edited and published as a text that covers all aspects of the minimally invasive spine surgical approach. Minimally invasive spinal surgery will be a highlight of operative approaches in the twenty-?rst century and already has been popularized worldwide.This procedure will provide surgical options that address several pathological conditions in the spinal column without producing the types of morbidity commonly seen in open surgical procedures. The contents of this book provide highly relevant and detailed information. I certainly believe that it will be a great bene?t to all orthopedic surgeons who are interested in performing minimally invasive spine surgery.

Charoen Chotigavanich,M.D. Chairman,Spinal Section The Royal College of Orthopedic Surgeons of Thailand V Preface Recent decades have been characterized by revolutionary changes in spinal surgery. Concurrent progress in implant technology and functional en- scopes and the improvement of less invasive surgical techniques has opened a new dimension for spine surgery.
Atlas of Craniocervical Junction and Cervical Spine Surgery Stefano Boriani 2017-05-09 This atlas documents current surgical approaches to the craniocervical junction and the cervical spine, providing step-by-step guidance on procedures and cervical spine stabilization techniques. Opening chapters present essential information on anatomy, depict pathologies with the aid of illustrative cases, describe the role of imaging techniques in patient evaluation, and discuss surgical instrumentation and patient positioning. The different techniques employed in this delicate anatomic region, including transnasal and transoral endoscopic approaches to the craniocervical junction and posterior and anterior approaches to the cervical spine, are then explained and illustrated with a view to providing the surgeon with a clear reference that can be used in the operating room. In addition, practical advice is offered on the treatment of potential complications, postoperative management, and rehabilitation. This book will be of value not only to neurosurgeons but also to orthopedists, ENT surgeons, neurologists, and physiatrists.
Anesthesia for Spine Surgery Ehab Farag 2012-05-17 A comprehensive guide to anesthesia specifically for spine surgery, explaining procedures from the point of view of both anesthesiologists and surgeons.
Spine Essentials Handbook Kern Singh 2019-01-07 A unique, visually appealing, and easy-to-read guide on spinal anatomy, pathology, and management The management of patients with spinal conditions involves a team-based approach, with professionals and trainees contributing through their respective roles. As such, medical trainees need resources that enable them to quickly and adeptly learn spine "basics," such as performing spinal examinations. This handbook is a concise, compact guide on key principles of spine surgical knowledge — from the atlanto-occipital joint to the coccyx. It provides both professionals and medical trainees with user-friendly, insightful text gleaned from the hands-on insights of seasoned spinal surgeons. Core fundamentals cover spine anatomy, clinical evaluations, spine imaging, diagnostic spine tests, and select spine procedures. Common surgical approaches are delineated in succinct bulleted text, accompanied by case studies and radiographic pathology. This format is conducive to learning and provides an ideal spine surgery review for medical students, postgraduate trainees participating in spine rotations, and residents. Key Highlights The only book on spinal pathology and management created with contributions from medical students and residents High-impact citations and questions at the end of each chapter highlight key topics Detailed drawings, diagrams, radiographic images, and MRIs elucidate and expand upon chapter topics Tables provide a quick reference, with concise information including impacted anatomy, nerves, and procedural maneuvers utilized in exams Spine Essentials Handbook: A Bulleted Review of Anatomy, Evaluation, Imaging, Tests, and Procedures is a must-have resource for orthopaedic and neurosurgery residents and medical students. It will also benefit physiatrists, spine practitioners, orthopaedic and neurosurgical trainees and nurses, and chiropractors.
Revision Lumbar Spine Surgery E-Book Robert F. Heary 2021-03-03 Offering in-depth coverage of an often-neglected topic, Revision Lumbar Spine Surgery identifies clinical problems and discusses recent major advances in this challenging area. Dr. Robert F. Heary and a team of international experts share their knowledge and experience with even the most difficult lumbar cases, helping you provide optimal outcomes for your patients. You'll find authoritative guidance on indications, diagnosis, approaches, and follow-up, with a focus on the significant advances that have occurred over the past two decades in this fast-changing field. Identifies the clinical problems related to unsuccessful back spine surgery as well as indications, diagnosis, and new treatment options and advances in this complex area. Provides in-depth information on the multiple options that exist for most clinical situations: anterior, posterior, lateral, and combined anterior and posterior approaches. Covers methods of fixation, the use of interbody grafting, and surgical planning related to scar tissues, bleeding, and spinal fluid leaks. Discusses critical follow-up topics such as key clinical procedures, radiography, patient reported outcomes, and pain management. Includes timely chapters on robotics, bone density issues, medical fitness concerns, instrumentation options, imaging considerations, and much more.
Orthopaedic Surgical Approaches E-Book Mark D. Miller 2014-09-05 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!
Arthroscopic and Endoscopic Spinal Surgery Parviz Kambin 2007-10-28 The term "minimally invasive spinal surgery" was coined in early 1990 following pub- cation 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 l990. The orthopedic and neurological surgeons who participated in lectures and hands-on wo- shops both in Philadelphia and abroad have witnessed the evolution of minimally invasive spinal surgery from blind nucleotomy to endoscopic fragmentectomy, decompression of l- eral 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 s- ported 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 cont- butions to this text.
Cervical Spine Surgery: Standard and Advanced Techniques Heiko Koller 2019-05-07 This comprehensive, up-to-date textbook of modern cervical spine surgery describes the standard and advanced techniques recommended by the Cervical Spine Research Society – European Section (CSRS-E) with a view to enabling both young and experienced surgeons to further develop their skills and improve their surgical outcomes. Success in cervical spine surgery depends on the surgeon's awareness of the main challenges posed by distinct cervical spine diseases, theoretical understanding of treatment concepts, and knowledge of technical options and the related potential for complications. It is the surgeon who has to merge theory and practice to achieve the desired outcome, in each case appraising the details of surgical anatomy and weighing the challenges and complications associated with a surgical technique against the skills that he or she possesses. This excellently illustrated book, written by key opinion makers from the CSRS-E with affiliated surgeons as co-authors, presents the full range of approaches and techniques and clearly identifies indications, precautions, and pitfalls. It will be a superb technical reference for all cervical spine surgeons, whether orthopaedic surgeons or neurosurgeons.
Spinal Tumor Surgery Daniel M. Sciubba 2018-12-12 This practical, step-wise text covers the surgical approaches, resection strategies and reconstruction techniques used for each type of presenting tumor of the spine. Demonstrating the variety of anterior, posterior and intradural approaches and stabilization techniques, and spanning from pathologies of the craniocervical region to sacral and intradural pathologies, each chapter is generously illustrated with figures, radiographs and intraoperative photos. The chapters themselves follow a consistent and user-friendly format: the anatomy and biomechanics of a specific region, patient evaluation, essential oncologic principles, the decision-making process, and technical steps of surgery. A representative case illustration is provided at the conclusion of each chapter, exemplifying pertinent concepts described. Additionally, video segments accompany selected chapters, providing real-time illustration of surgical techniques. Technical and in-depth, yet highly accessible, Spinal Tumor Surgery: A Case-Based Approach is an essential resource for orthopedic spine surgeons, neurosurgeons, and surgical oncologists operating on tumors of the spine.
Interventional Spine Curtis W. Slipman 2008-01-01 A comprehensive resource written by and for anaesthesiologists, physiatrists, neurologists, interventional radiologists, interventional pain specialists, orthopaedic surgeons, neurosurgeons and therapists treating painful spinal disorders globally. The book describes basic principles that must be understood before patients with spinal pain can be treated and procedures are clearly explained. Practice-proven diagnostic and therapeutic algorithms are given for all conditions. Detailed protocols are given for what to do in different scenarios and, most importantly, what to do next. Surgical treatment is covered only to the extent useful to the non-surgeon.
Minimally Invasive Thoracic Spine Surgery Sang-Ho Lee 2020-12-12 This book describes and illustrates a variety of minimally invasive approaches to the thoracic spine, covering procedures applicable in not only degenerative diseases but also deformities and trauma. Surgery to the thoracic spine is demanding because of the surrounding ribs, lungs, heart, and large blood vessels and the challenges posed by the vulnerable spinal cord within a relatively small spinal canal. Consequently, postsurgical morbidity is often high. In this context, minimally invasive surgery offers significant benefits, but to date, comprehensive coverage in textbooks is lacking owing to the limited experience in the use of minimally invasive surgical techniques. This book will be ideal for all who are searching for clear guidance that is faithful to the established principles of spine surgery and evidence-based medicine. In addition to the comprehensive coverage of procedures appropriate in different pathologies, including thoracic disc herniation, ossification of the posterior longitudinal ligament, ossification of the ligamentum flavum, and stenosis, individual chapters address the transforaminal endoscopic approach, interventional treatment, intraoperative neuromonitoring, and navigation for thoracic spine surgery.
Surgical Approaches to the Spine Robert G. Watkins 2012-12-06 The second edition of the highly successful Surgical Approaches to the Spine will continue the tradition of presenting clearly enumerated and illustrated, step-by-step surgical procedures for the spine. New to this edition are chapters on the anterior approach to clivus C1 & C2, transclavicular cervico-thoracic approach, transsternal approach to the cervico-thoracic & upper thoracic spine, approaches to the sacrum & pelvis, and laparoscopic approaches.
The Textbook of Spinal Surgery 1997
Minimally Invasive Spine Surgery Kern Singh 2015-08-31 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 technique (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 (LLIF). 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
Manual of Spine Surgery Uwe Vieweg 2012-10-23 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.
Surgical anatomy of the lateral transpsoas approach to the lumbar spine E-Book R. Shane Tubbs 2019-11-20 Surgical anatomy of the lateral transpsoas approach to the lumbar spine E-Book
Anterior Approaches to the Spine Thomas Zdeblick 1999-07-01 This comprehensive reference provides essential clinical information for planning and performing the full spectrum of anterior spine surgeries. Here, in one convenient volume, you'll receive expert, step-by-step guidance in both open and endoscopic procedures, as well as instruction in relevant anatomy, instrumentation, and underlying principles. The book is divided into three general sections and covers a host of common and rare cervical, thoracic, and lumbar diseases requiring anterior access. Individual chapters within each section bring you straight into the operating room with detailed descriptions of specific surgical techniques. Together with Dr. Zdeblick and other widely recognized surgeons such as Drs. Paul Anderson and John Regan, you'll examine specific cases, review pertinent indications, weigh treatment options, select appropriate approaches, and deal with any complications that arise during the course of surgery. Along the way, you'll not only garner concrete technical knowledge that applies directly to your daily practice, but also pick up valuable tips that will help you optimize outcomes and avoid pitfalls in the OR. Benefits Learn fast--more than 300 illustrations make it easy to understand the procedures. A complete reference--contains both neurosurgical and orthopedic information. This true "how-to" book guides you through even the most complex procedures. Master the skills needed to stay at the forefront of the field! Audience No matter the level of expertise, orthopedic spine surgeons, neurosurgeons, and surgical residents are sure to find much to learn in this pragmatic guide to anterior spine surgery.
Surgical Exposures in Orthopaedics Stanley Hoppenfeld 2012-03-28 Featuring 775 full-color illustrations, this atlas demonstrates the surgical approaches used in orthopaedics and provides a surgeon's-eye view of the relevant anatomy. Each chapter details the techniques and pitfalls of a surgical approach, gives a clear preview of anatomic landmarks and incisions, and highlights potential dangers of superficial and deep dissection. The Fourth Edition describes new minimally invasive approaches to the spine, proximal humerus, humeral shaft, distal femur, proximal tibia, and distal tibia. Other highlights include new external fixation approaches for many regions and surgical approaches to the os calcis. New illustrations of the appendicular skeleton are included. New drawings show the important neurovascular structures that need to be protected.
Surgical Approaches to the Neck, Cervical Spine and Upper Extremity Emanuel B. Kaplan 1967
Orthopaedic Surgical Approaches Mark D. Miller 2008 Provides an expert, illustrative guide to the full array of common and contemporary surgical approaches in orthopaedics. Organized by anatomical region and by procedure, it provides overviews of regional anatomy, cross-sectional anatomy, landmarks, and hazards; plus patient positioning, incisions, superficial and deep dissection and closure for each approach. The book includes the very latest advances in arthroscopic, mini-incision and computer-assisted techniques. Plus a bonus DVD features narrated video clips of surgical approaches. Provides over 1,000 original full color drawings and color photographs depicting the full range of contemporary surgical approaches used in orthopaedics. Organized by anatomical region (including a review of regional anatomy, cross-sectional anatomy, landmarks and hazards), and then by procedure, making reference a snap. Supplies an up-to-date anatomic review of surgical approaches including new advances in arthroscopy, mini-open, robotic, and computer-assisted techniques.
Surgical Atlas of Spinal Operations Jason Eck 2013-03-30 This atlas is a comprehensive review of spine surgery, discussing traditional and new techniques. Divided into sections, the first part introduces surgical anatomy. The following sections focus on procedures for different parts of the spine – cervical, thoracic and lumbosacral, to present expanded coverage of all aspects of spine surgery. Each section presents numerous disorders and different surgical techniques for their management. Highly illustrated, each chapter discusses indications for a surgical approach, the most common surgeries, pertinent anatomy, postoperative care and potential complications. Key points are summarised for each chapter. Written by recognised US authors, this atlas is enhanced by 800 full-colour illustrations, clinical pictures and radiographic images. Key points Comprehensive review of spine surgery covering new and traditional techniques Discusses disorders and surgeries in different spinal sections Key points summarised for each chapter Recognised US author team Includes 800 illustrations, clinical pictures and radiographic images
Surgical Atlas of Spinal Operations Jason Eck 2019-07-31 This new edition has been fully revised to provide spine surgeons with the latest advances in their field. Beginning with an overview of surgical anatomy of the spine, the following chapters describe numerous surgical techniques for each section of the spine – cervical, thoracic, and lumbosacral. The text covers both traditional and new procedures, and includes discussion on recent technologies such as disk arthroplasty and minimally invasive techniques. The final section of this comprehensive volume focuses on associated practices including graft harvesting, discography, and cement augmentation. Authored by renowned experts in the field, this guide is enhanced by clinical photographs and diagrams. A list of 'key points' summarises the most important aspects in each chapter. Previous edition (9789350903261) published in 2013. Key points Fully revised, new edition presenting latest advances in spinal surgery Covers techniques for each section of the spine Authored by internationally recognised, US-based experts in the field Previous edition (9789350903261) published in 2013
Surgical Approaches to the Spine Todd J. Albert 1997 Outstanding spine surgeons discuss in careful detail the full range of exposures needed for the optimal performance of contemporary procedures. The clinically valuable discussions are enhanced by an extensive array of original color drawings and helpful diagrams. The book achieves its goal of providing comprehensive understanding of the anatomy for each approach to the cervical, thoracic, and lumbrosacral spine. Features a consistent format in each chapter that provides: an introduction, indications, step-by-step instructions on how to perform each procedure, possible

complications, and more. Promotes a 3-dimensional understanding of spinal anatomy that will help readers to avoid complications, minimize blood loss, and operate more efficiently. Presents over 300 illustrations and photographs (238 in full colour) that meticulously depict all anatomical structures and nuances of surgical technique. Offers the expertise of 17 national authorities in orthopaedic surgery, and neurosurgery.

Tumors of the Spinal Canal Ankit I. Mehta 2021-12-10 A state-of-the-art resource on current and future advances in the treatment of intradural spinal tumors Tumors of the spinal canal provide unique challenges in terms of surgical approaches and oncological treatment. Management requires in-depth knowledge of the intricate anatomical relationships between the tumors and normal spinal pathways, restricted corridors of entry, and limitations of drug penetration. Over the past few decades, significant strides have been made in the treatment of these tumors. Development of minimally invasive techniques and greater understanding of these pathologies has resulted in improved safety, precision, and outcomes. Tumors of the Spinal Canal: Surgical Approaches and Future Therapies by Ankit I. Mehta and esteemed contributors is the most comprehensive textbook written to date on this topic. The book starts with two opening chapters covering an overview and anatomy, followed by three sections and 11 chapters on intramedullary spinal tumors, intradural extramedullary tumors, and peripheral nerve tumors. The comprehensive review encompasses anatomy, pathophysiology, therapeutic and surgical advances, diverse surgical techniques, and future directions. Throughout the text, readers are provided with the necessary tools to master management of these clinically difficult tumors, from both a medical and surgical standpoint. Key Highlights Treatment algorithms, clinical study summaries, and differential diagnoses presented in reader-friendly tables enhance acquisition and retention of knowledge Comprehensive analyses and pearls from masters provide insights on how to manage complications and improve patient outcomes Discussion of current research innovations, clinical trials, and future directions that have the potential to change the treatment paradigm Neurosurgical residents, spine fellows, and complex spine surgeons will benefit from reading this resource, while the intradural spinal tumor treatment paradigms provide an invaluable clinical tool for neurooncologists and oncologists.

Practical Handbook of Neurosurgery Marc Sindou 2009-06-29 “Practical Handbook of Neurosurgery” invites readers to take part in a journey through the vast field of neurosurgery, in the company of internationally renowned experts. At a time when the discipline is experiencing a (detrimental) tendency to segment into various subfields and scatter in the process, it can be worthwhile to collect a number of practical lessons gleaned from experienced and leading neurosurgeons. The book also aims to present numerous important figures in the neurosurgical community, with a brief overview of the vitae and main contributions for each. We must confess that we were sad that some of the most active members were unable to participate, likely due to time constraints. We are however fortunate that the majority were able to take part. As such, though not exhaustive, the book does represent an anthology of contemporary neurosurgeons. From the preface: At the very beginning of the project, our intention was to make a “poetbook”. But month after month it became obvious that the work would be much more expansive; ultimately we produced three volumes. Nevertheless we hope that all the three volumes together will remain easily accessible and a daily companion. The pocket has to be more like a travel bag! We would like to thank all of the contributors; they have sacrficed their valuable time to deliver sound and critical views, and above all useful guidelines.

Surgical Atlas of Spinal Operations Jason C. Eck 2013-12-15 This book Surgical Atlas of Spinal Operations is divided into several sections in an attempt to provide the reader the best understanding of complex topics as well as to facilitate the search for specific information on any of these topics. The first section provides a comprehensive review of surgical anatomy through a step-by-step description of the most common surgical approaches to the spine. Each of these chapters consists of a discussion of the indications for using the approach, a review of the pertinent anatomy, a well-illustrated description of the surgical approach, a discussion of th.

Spine Surgery Bernhard Meyer 2019-03-04 This book covers the content of European postgraduate spine surgery courses, using a case-based approach. It describes a stepwise solution to a real-world clinical problem and compares this with the best available evidence. It then provides suggestions on how to bridge the gap (if there is one) between standard of care and evidence-based medicine. Spine Surgery: A Case-Based Approach is aimed at postgraduate students of spine surgery (both trainee neurosurgeons and trainee orthopedic surgeons), and is also of interest to medical students.