Surgical Approaches To The Spine

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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

Revision Spine Surgery Alexander R. Vaccaro 2019 Revision spine surgery requires a unique skill set different from performing a primary operation. Understanding when a simple revision is sufficient, when a more complex approach is needed, or when a non-surgical option should be considered is critical to good patient care and outcomes. In this first book to focus exclusively on the complex topic of revision spine surgery, world-renowned Dr. Alex Vaccaro and leading neuro and orthopaedic spine surgeons, navigate physicians through the initial evaluative process and the potential pitfalls and complications encountered in revision surgery.

Surgery of the Thoracic Spine Ali A. Baaj 2019-02-04 The definitive guide to thoracic spine pathologies and state-of-the-art surgical approaches Surgery of the Thoracic Spine: Principles and Techniques by renowned spine surgeons Ali Baaj, Kumar Kakarla, and Han Jo Kim fills a gap in the literature, with content focused solely on pathologies and surgical techniques of the thoracic spine and vertebral column. Starting with a thoughtful discussion on the uniqueness of the thoracic region as it relates to pulmonary function, the richly illustrated textbook covers a full spectrum of topics from biomechanics and anesthetic considerations to neuromonitoring and neuronavigation. With contributions from a cadre of distinguished experts, the book encompasses pathophysiology, surgical techniques, and reconstructive strategies for common degenerative, congenital, oncologic, and traumatic diseases of the thoracic spine. Dedicated chapters cover treatment options for different types of scoliosis, Scheuermann kyphosis, proximal junctional deformity, and posttraumatic deformity. Key Features Treatment of common degenerative conditions including stenosis and disc herniations Management of less common inflammatory and infectious spinal diseases such as spondylarthropathies, osteomyelitis, discitis, and fungal and tubercular infections Oncologic topics including primary, intradural extramedullary, and intramedullary spinal cord tumors and thoracic spine metastases Surgical treatment of pediatric and adult deformities including congenital, idiopathic, and degenerative scoliosis Classification of thoracic spinal fractures, discussion of complete and incomplete thoracic spinal cord injuries, posterior and ventral treatment of thoracic spine fractures, and osteoporotic compression fractures This is an invaluable evaluation and management tool for neurosurgical and orthopaedic residents and practicing spine surgeons who treat patients with common to complex thoracic spinal pathologies.

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.

Surgical Approaches to the Neck, Cervical Spine and Upper Extremity; Illustrated by Robert Demarest Emanuel Boris KAPLAN 1966

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 Spinal Oncology Kern Singh 2020-08-21 This book contains the expert knowledge base of the field's most experienced practitioners in the field of extradural bone and soft tissue malignancy. Chapters include modern classification, advanced anatomy, imaging, and the concepts around a multidisciplinary approach. Since treating primary tumors requires very different strategies than those used in metastatic tumors, the book devotes separate sections to each sub-discipline. For primary tumors, the text covers both benign and malignant entities and addresses unique anatomic zones such as the sacrum and skull base which require special technical expertise. For metastatic disease, the authors address the ever-important concept of prognosis, and discuss how to answer the eternal question: "How much should we do, and for whom?". Chapters also explore the state of the art of treatment for the "big 5" histologies (renal cell, lung, breast, prostate, thyroid), with a special chapter emphasis on separation surgery and the now-standard combinatorial care between radiation and surgery. In addition, an entire section is dedicated to evolving surgical technology, which covers the use of minimally invasive techniques, navigation, robotics, 3D-printing, and other evolving technologies for spine tumor care. Infrequently-considered topics, such as how to evaluate a lesion which may be a tumor-mimic, and how to think about economic value in spine tumor surgery, are also presented. Surgical Spinal Oncology serves to help surgeons approach difficult clinical scenarios with a thoughtful, collaborative approach that leverages the best technology and thinking the field of spine oncology has to offer.

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.

Surgery of the Lumbar Spine Sanford J. Larson 1999-04-15 Larson and Maiman have pioneered both the study of the lumbar spine, as well as the surgical and non-surgical management of lumbar spine pathology. A comprehensive treatise... clearly enhances the surgeon's ability to care for patients with lumbar spine pathology; most importantly; it significantly advances the field. -- Edward C. Benzel, MD (from the foreword) Written by two of the most distinguished leaders in modern spine surgery, this book provides everything you need to know regarding surgery of the lumbar spine. Throughout, you will find an emphasis on incorporating biomechanics into clinical decision-making, with detailed coverage of anatomy and pathology, fusion principles, and surgical approaches. Lumbar spine-specific pathology is addressed from an anatomical, clinical, and therapeutic point of view. Plus, you will benefit from the authors' frank discussions of techniques, complications, and surgical pearls. The numerous high-quality drawings aid the discussion in providing a thorough understanding of the surgical procedures used in the lumbar spine. Surgery of the Lumbar Spine is an invaluable book for resident and experienced surgeon alike. Highlights of this outstanding work include: Provides a comprehensive view of lumbar-spine pathology and treatment Straight talk from experienced surgeons on techniques and complications A unique approach to clinical decision making that stresses biomechanics Hundreds of clear photographs and descriptive surgical drawings

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.

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.

Atlas of Orthopaedic Surgical Approaches Christopher L. Colton 1991 A comprehensive compendium of most of the approaches required by the orthopedic surgeon, with an informative text supported by simple, anatomically accurate line drawings. Thirteen contributed chapters cover the hip, femur, knee, tibia and fibula, ankle, foot, spine, major neurovascular bundles, shoulder, humerus, elbow, forearm, and wrist and hand. For surgical trainees undertaking orthopedic procedures, and surgical postgraduate examinees and their teachers who may need to update their confidence with unfamiliar approaches. Annotation copyrighted by Book News, Inc., Portland, OR

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.

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!

Emory's Illustrated Tips and Tricks in Spine Surgery John Rhee 2019-08-12 Part of the popular Tips and Tricks series, Emory Spine:Illustrated Tips and Tricks in Spine Surgery provides succinct and practical advice acquired from years of expert practice in spine surgery. Led by John M. Rhee, MD from the Emory University Department of Orthopaedic Surgery and Emory University Spine Fellowship, this visually stunning reference focuses exclusively on detailed descriptions of technical tips and tricks for all aspects of spine surgery. This unique approach will be highly useful to everyone from orthopaedic and neurosurgery spine fellows and residents, to practicing spinal surgeons - anyone who would benefit from exposure to the wisdom that experienced attending surgeons pass on to those who are training or working in this complex field. - Presents practical knowledge and insight gleaned from years of experience at Emory University's renowned spine surgery fellowship program. - Takes a unique issue/solution approach, offering up-to-date guidance that can be applied in contemporary surgical practice. - Features concise, bulleted text and hundreds of high-quality illustrations detailing the gamut of spine operations, step by step - Covers the entire spectrum of surgeries involving the cervical spine, thoracic spine, and lumbar spine (anterior, posterior, and deformity) as well as cervical and thoracolumbar trauma. - Discusses management of complications such as vertebral artery injury, neuromonitoring alerts, and airway management after ACDF/ cricothyroidotomy. Enrich Your eBook Reading Experience with Enhanced Video, Audio and Interactive Capabilities - Read directly on your preferred device(s), such as computer, tablet, or smartphone - Easily convert to audiobook, powering your content with natural language text-to-speech - Adapt for unique reading needs, supporting learning disabilities, visual/auditory impairments, second-language or literacy challenges, and more

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.

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.

Surgical Approaches to the Neck, Cervical Spine and Upper Extremity Emanuel B. Kaplan 1967

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.

State of the Art for Minimally Invasive Spine Surgery A. Dezawa 2009-09-03 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.

Surgical Management of Cervical Disc Herniation PS Ramani 2012-05-18 Cervical disc herniations occur in the neck and are usually the result of a medical condition caused by trauma or disease. Symptoms can affect the back of the skull, the neck, shoulder girdle, scapula, shoulder, arm and hand. This book discusses the surgical management of a herniated cervical intervertebral disc. Beginning with an introduction to the clinical and applied anatomy of subaxial cervical spine, the following chapters examine surgical procedures for different spinal diseases and disorders. The final chapter describes the advantages and disadvantages of anterior and posterior surgical approaches. With contributions from recognised authors from Europe, the USA and Asia, this manual includes more than 250 colour images and illustrations.

The Cervical Spine Henry H. Sherk 1994 This comprehensive surgical atlas, designed to complement the definitive textbook, The Cervical Spine 2nd ed, presents the most common operative techniques used for treating disorders of the cervical spine in full illustrative detail. Coverage includes a complete discussion of surgical approaches. Prepared by the Cervical Spine Research Society under the direction of Dr Sherk, this surgical manual offers the expert advice of 27 leading authorities in the field. The narrative text that accompanies the visual presentation of each procedure highlights pertinent anatomy, physiology, biomechanics and complications.

Postoperative Spine Jeffrey S. Ross 2011-11-01 10-20% of spinal surgery patients will experience one or more complications from their surgery. These complications are intimately tied to the specifics of their surgery, their underlying pathology, surgical approach, and the devices or instrumentation utilized. Further complicating matters are the bewildering array of hardware that is utilized to treat spine disease, with new approaches constantly becoming available. The goal of Specialty Imaging: Postoperative Spine is to provide a broad overview of the role of advanced imaging for the diagnosis and management of the postoperative spine patient. Thus this book covers normal (preoperative) spine anatomy, gives brief synopses of common surgical approaches, and covers the appearance of the normal postoperative state. Emphasis is given to the imaging and diagnosis of local spine and adjacent soft tissue postoperative complications, as well as remote complications and general medical complications. This is not a surgical textbook. The surgical descriptions are purposely superficial, and geared toward radiologists who want a general understanding of the clinical rationale for the surgery and the surgical approach. This book is intended for practicing radiologists, residents, fellows, and anyone who treats postoperative spine patients.

Atlas of Craniocervical Junction and Cervical Spine Surgery 2017 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.

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Spine Surgery Albert J. Todd 2015-12-16 Written by world-renowned masters in spine surgery, this expanded third edition details all the major procedures and newest technical innovations in the field. Experts share clinical pearls gleaned from years of surgical experience and ongoing refinement of techniques. Throughout 21 well organized sections, the essential elements of a full spectrum of cervical, thoracic, lumbar, and sacroiliac joint procedures are distilled into 112 concise, easy to understand chapters. From deformities to spinal tumors, the text facilitates a greater understanding of surgical nuances and potential complications encountered in standard to complex cases. The authors share insights for improving patient safety and outcome such as reducing radiation exposure during fluoroscopy, minimizing intraoperative blood loss, and utilization of the surgical microscope. Updated pain management content encompasses varied strategies including injections, steroids, and nerve blocks. Special Features: More than 400 stunning full color illustrations, diagrams, and photographs replace black and white images from the previous edition Online access to 40 videos in which surgeon-authors share personal tips and demonstrate how to deftly navigate challenging, real life cases. Highlights include up close and personal footage shot in the OR and cadaver simulations Greatly expanded section on minimally invasive technologies covers AxiaLIF, Presacral Interbody Fusion, SI Joint Fusion, and the use of both Robotics and Endoscopy Up to date and comprehensive, this book is an outstanding resource for orthopedic and neurosurgical fellows and residents, as well as clinicians specializing in spine surgery.

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.

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.

Synopsis of Spine Surgery Howard S. An 2011-01-01 The second edition of Synopsis of Spine Surgery uses a succinct, easily accessible outline format to present the latest diagnostic and management techniques for a range of spine problems. The book opens with review of general principles, including anatomy, surgical approaches, the physical examination, imaging and diagnostic testing, biomechanics of the spine and instrumentation, and the physiology of bone grafting. In the chapters that follow, the authors share their clinical expertise on the management of degenerative spinal conditions, deformities, and trauma, as well as on special topics such as tumors, infections, rheumatoid arthritis, seronegative spondyloarthropathies, and pediatric spine disorders. Features: Succinct outline format speeds reader through review of the goals of treatment, evaluation, classification of injuries, diagnosis, prognosis, indications, surgical treatments, and nonoperative treatment options, including pharmacologic intervention Precise line drawings aid comprehension of surgical approaches and techniques New chapters cover biological implants and motion sparing devices Annotated bibliography provides reader with key references for further study Handy portable size is ideal for busy physicians on the move Synopsis of Spine Surgery will enable orthopedic surgeons, spine surgeons, neurosurgeons, physiatrists, pain management specialists, and trainees, residents, and fellows in these specialties to optimize patient care. With its concise, easy-to-read format, the book is ideal for residents preparing for their annual in-service examination. It will also help medical students prepare for spine surgery rotations.

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.

Nonfusion Technologies in Spine Surgery Marek Szpalski 2007 Written by an international group of expert spine surgeons, this volume thoroughly examines new nonfusion technologies for treating spinal degenerative conditions while preserving motion. Major sections describe various surgical techniques and devices for nucleus pulposus replacement and total lumbar and cervical disc arthroplasty, as well as other stabilization techniques. Coverage includes indications and contraindications, surgical approaches, and the latest clinical trial results. Several chapters discuss nonsurgical and minimally invasive treatments, including gene therapy, nucleus pulposus regeneration, and IDET. Other chapters address economic and ethical issues, including use of registries, medical device regulation, and outcome and cost of lumbar disc replacement versus lumbar fusion.

Surgery of the Pediatric Spine Daniel H. Kim 2011-01-01 Ideal for neurosurgeons, pediatric neurosurgeons, and orthopedic surgeons, Surgery of the Pediatric Spine is a comprehensive multidisciplinary reference for the surgical management of the most frequently encountered spine problems in the pediatric patient. An overview of developmental and clinical aspects provides essential information on biomechanics, neuroimaging, preoperative evaluation, anesthesia, and neurophysiological monitoring. The book goes on to present the surgical anatomy and various approaches to the spine and spinal cord. Chapters are grouped into easy-to-reference sections that are organized by type of problem, including congenital anomalies and developmental disorders; neoplasms; vascular malformations; inflammatory and infectious diseases; neuromuscular disease; trauma; and deformities. The book also presents special techniques for the treatment of spinal deformity, such as osteotomy, vertebrectomy, VEPTR expansion thoracoplasty, and fusionless techniques. A chapter devoted to the rehabilitation of children with spinal cord injury covers the principles and key concepts in treatment, as well as the possible secondary complications and challenges that are unique to pediatric patients. Highlights: Clinical insights from well-known experts in the fields of neurosurgery, pediatric neurosurgery, and orthopedics Detailed information for each stage of management guides the reader through clinical presentation, diagnostic studies, indications, operative techniques, nonsurgical treatments, possible complications, and outcomes More than 1,000 illustrations and images demonstrate key concepts Numerous cases in selected chapters illustrate management principles and treatment outcomes An invaluable resource for multidisciplinary

approaches to patient care, this comprehensive text provides readers with a solid foundation in the specific issues associated with treating the pediatric patient with spine disease and disorders.

Surgical Anatomy and Techniques to the Spine Daniel H. Kim 2013 Featuring an expanded focus on in-demand endoscopic and minimally invasive spine procedures, Surgical Anatomy and Techniques to the Spine, 2nd Edition pairs new anatomic photographs and radiographic images with expertly rendered color illustrations and clear, step-by-step descriptions to help you effectively perform all of the latest and most effective spine surgery techniques. A multidisciplinary approach makes this medical reference book relevant and informative to all surgeons regardless of their specialty or level of surgical experience with the spine. Proceed with confidence. An atlas-style format featuring clear, concise, step-by-step descriptions of the anatomy and procedures along with clinical hints and pearls, tables, and management algorithms provideing swift answers and trusted guidance. Sharpen your surgical acumen with a deeper understanding of the anatomy of the surgical target and related anatomy. Comprehensive information on cervical, cervical/thoracic, thoracic/lumbar, lumbar spine, lumbar/pelvis, and other surgical locations ensures the best approaches to spine surgery and results. Understand the spine from all angles with multiple-viewpoint, full-color photographs, and illustrations. Master surgical anatomy of the spine and the latest minimally invasive techniques. Sweeping revisions and updates-including 22 new chapters-provide new and expanded coverage of spine surgery procedures and topics such as surgical management in gunshot wound to the spine, vertebroplasty, and kyphoplasty. Visualize every step of each procedure thanks to new anatomic photographs and radiographic images, corresponding with expertly rendered illustrations which more in-depth than ever before. Access the entire text and illustrations online, fully searchable, at Expert Consult. With over 60 additional contributors.

Biomechanics of Spine Stabilization Edward C. Benzel 2011-01-01 Over the past two decades there have been major advances in the treatment of spinal disorders including anterior decompression of the neural structures as well as various forms of spinal stabilization by utilization of implants. These changes primarily reflect the development of better techniques of diagnosis and anesthesia, as well as new fusion procedures that are often supplemented with instrumentation. Biomechanics of Spine Stabilization bridges the gap that has existed between the physics of biomechanical research and the clinical arena. The book helps surgeons to plan treatments for the injured spine based on sound biomechanical principles - principles that will influence the surgeon's choice for the surgical approach, type of fusion and type of instrumentation. Biomechanics of Spine Stabilization begins with the essentials, proceeds gradually toward the development of an understanding of biomechanical principles, and, finally, provides a basis for clinical decision-making. These features make it a cover-to-cover must-read for anyone who is involved with the care of a patient with an unstable spine. Chocked full of illustrations, Biomechanics of Spine Stabilization includes: -Physical principles and kinematics - Segmental motion, stability and instability -Spine and neural element pathology -Surgical approaches and spinal fusion -Spinal instrumentation: General principles -Spinal instrumentation constructs: biomechanical attributes and clinical applications -Non-operative spinal stabilization - Special concepts and concerns -CD-ROM containing illustrations from book to create mental images of critical anatomical, biomechanical and clinical points

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.

Rothman-Simeone, the Spine: Basic science. Diagnosis. Surgical anatomy and surgical approaches. Spinal fusion and instrumentation. The child's

spine. Arthritis and inflammatory disorders Harry N. Herkowitz 2006

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.

Benzel's Spine Surgery Michael P Steinmetz 2021-05-18 Written and edited by world-renowned experts in the field, Benzel's Spine Surgery: Techniques, Complication Avoidance and Management, 5th Edition, provides expert, step-by-step guidance on the evaluation and management of disorders of the spine. This definitive, two-volume work explores the full spectrum of techniques used in spine surgery, giving you the tools you need to hone your skills and increase your knowledge in this challenging area. Clearly organized and extensively revised throughout, it features contributions from both neurosurgeons and orthopaedic surgeons to present a truly comprehensive approach to spine disease. Offers a thorough overview of the effective management of patients with spinal disorders, including fundamental principles, biomechanics, applied anatomy, instrumentation, pathophysiology of spinal disorders, surgical techniques, motion preservation strategies, non-surgical management, and complication avoidance and management, as well as controversies. Focuses on both pathophysiology and surgical treatment of spine disease, with an increased emphasis on minimally invasive surgery. Contains new features such as key points boxes at the beginning of chapters and algorithms to help streamline the decision making process. Covers today's hot topics in spine surgery, such as health economics, artificial intelligence, predictive analytics, new less invasive techniques including endoscopic spine surgery, and the future of spine surgery. Provides expert coverage of key topics including biomechanics of motion preservation techniques, spinal injuries in sports, biologics in spine fusion surgery, anterior sub-axial cervical fixation and fusion techniques, complex lumbosacropelvic fixation techniques, and many more. Features more than 1,500 high-quality illustrations, as well as new procedural videos on en bloc spondylectomy, minimally invasive endoscopic posterior cervical foraminotomy, cervical total disc replacement, minimally invasive lumbar decompression of stenosis, and more.

Minimally Invasive Spine Surgery Roger Haertl 2012-12-12 Minimally invasive spine surgery, in some form or other, has historical roots dating back more than 100 years, and recent advances in technology now make it increasingly effective in treating suitable spine patients. While minimally invasive approaches have shown to reduce muscle damage, blood loss, and post-operative pain, to perform this t ype of surgery correctly, even highly skilled modern-day surgeons must prepare themselves for a demanding learning curve. For this reason, AOSpine proudly presents Minimally Invasive Spine Surgery: Techniques,Evidence, and Controversies, the most comprehensive book of its kind, which includes more than 500 pages of surgical techniques, illustrations, case images, tips and tricks, and research, providing an invaluable tool for spine surgeons around the world. Each technique is fully examined: The pros and cons of each is objectively reviewed Its spectrum of indications and contraindications is summarized Historical and modern day controversies relating to each technique are discussed Uniquely, chapters in the text are further supported by an evidence-based section summarizing research studies, analysis, and conclusions into each technique, from peer-reviewed journals The text covers more than just a range of interesting medical techniques. By including brief historical introductions on each technique and the surgeons that explored and founded its methods, their early (sometimes self-made) instrumentation, right through to todays current best-practice, this book provides an interesting, informative, and topical instruction on minimally invasive surgery and its increasingly encouraging results for spine-patient care.