

Cervical Spine Surgery Challenges Diagnosis And Management By Todd Albert 2008 Hardcover

Spine Surgery, 2nd Edition delivers step-by-step, multimedia guidance to help you master the must-know techniques in this field. Part of the popular and practical Operative Techniques series, this orthopaedics reference focuses on individual procedures, each presented in a highly visual, easy-to-follow format for quick reference. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Access the entire text, fully searchable, online at www.expertconsult.com. Concentrate on precisely the information you need with brief, highly illustrated coverage of each surgical technique, complemented with just the right amount of relevant science. Find the answers you need quickly and easily with a strictly templated format for consistent and rapid visual reference. View 12 surgical videos at www.expertconsult.com demonstrating how to perform state-of-the-art procedures such as C1-C2 Posterior Cervical Fixation, Minimally Invasive Deformity Correction and Fusion, and Lumbar Disc Arthroplasty. Learn today's hottest techniques with new chapters on C2 translaminar fixation, vertebroplasty/kyphoplasty, internal laminectomy, and interbody fusion. See exactly what to do using step-by-step intraoperative photos demonstrating each technique, and radiographs showing presenting problems and post-surgical outcomes. Achieve optimal results using minimally invasive surgery whenever possible. Contain costs by using new implants related to pedicle screws and interbody devices, as well as new biologics such as BMP (bone morphogenetic protein). Benefit from the latest evidence-based information from randomized trials and retrospective studies.

Disorders of the Cervical Spine focuses on the various problems of the cervical spine. This book discusses how disorders of the cervical spine affect the vital structures and movement of the head relative to the neck and the neck relative to the head. Organized into 10 chapters, this book begins with an overview of the structural anatomy of the neck. This text then examines the contributions of radiology to the management of patients with injury or disease of the cervical spine. Other chapters consider the congenital deformities and anomalies of the cervical spine. This book discusses as well the common injuries as well as the more unusual injuries of the cervical spine. The final chapter deals with the episode of the operation in the management of cervical injury or disease, which is preceded by meticulous clinical and radiological assessment of the patient. This book is a valuable resource for orthopedic surgeons, neurologists, neurosurgeons, rheumatologists, radiologists, and general physicians.

Radiologists, orthopedic and neurological surgeons present the different minimally invasive methods. Peripheral nerve problems and problems concerning differential diagnosis in special situations such as between radicular and peripheral nerve trunk lesions are discussed, pinpointing the significance of different diagnostic tools. Minimally invasive techniques, utilized nowadays to minimize bone demolition, scarring and risk of recurrence are analyzed. Microdiscectomy is compared with the results of intradiscal techniques, and new methods are discussed facing problems such as epidural fibrotisation, microinstability, osteoporotic or neoplastic or posttraumatic vertebral lesions. A major surgical reference work modelled loosely after Apuzzo: BRAIN SURGERY. The book is organized first by procedures, then by problem or disease. The focus is on surgical technique, emphasizing how to deal with particularly complex problems and how to avoid complications.

Use the case format for quick reference and easy clinical application! Thieme congratulates Todd J. Albert on being chosen by New York magazine for its prestigious Best Doctors 2015 list. Over the last decade, a plethora of references on global treatment of spinal disorders have inundated the marketplace-- at the same time that increased responsibilities have limited the time surgeons have to wade through these large tomes. Now the information you need is at your fingertips in a quick, case-oriented approach designed for easy access and practical application. The MasterCases Series from Thieme uses the case format to provide key diagnostic and therapeutic information that can be applied in patient management. You will find concise data on degenerative disorders of the cervical and thoracolumbar spine, sacroiliac joint dysfunction, inflammatory spinal disease, metabolic disorders, trauma management, spinal neoplasms, and adult and pediatric deformities. Edited by two prominent specialists from the Rothman Institute in Philadelphia, MasterCases in Spine Surgery features: A convenient, case-oriented format for easy reference and application in daily practice Dozens of pearls and pitfalls and complete patient work-ups for each problem More than 60 studies on common and unusual cases and hundreds of superb figures that clarify all concepts Reviews of alternative treatment methods, with advantages and disadvantages of each The knowledge and expertise of leading spine specialists, orthopedic surgeons, and neurosurgeons, for a combined approach that leads to optimal results MasterCases in Spine Surgery is ideal for orthopedic surgeons, spine fellows, neurosurgeons, neurologists, and residents who need to be thoroughly proficient in operative and alternative treatments of numerous spinal conditions. Get soup-to-nuts answers to many of your specific problems and keep your skills up-to-date: order MasterCases in Spine Surgery today!

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

Here's all the practical, must-know information needed to diagnose and manage a full range of spinal disorders. Written with the busy practitioner in mind, this brand-new resource provides a comprehensive overview of contemporary spine surgery, focusing on the key information and procedures needed in the day-to-day practice of spine surgery. Features the expertise of 106 highly renowned clinicians from a wide range of disciplines including orthopaedics, neurosurgery, pediatric neurosurgery, pain management, rehabilitation, and more. Comprehensively covers the full range of spinal pathologies in adults and children. Presents information in brief, highly illustrated chapters, enabling readers to quickly find the information they need. User-friendly format features hundreds of boxes that highlight key concepts in the text. Includes a wealth of tables that summarize disease processes. Explores hot topics in the field such as spinal deformities in osteoporosis · spinal infections · primary spinal tumors · anterior minimally invasive techniques of the lumbar spine · and more. Provides a wealth of clear line drawings on surgical technique. With 112 additional contributors+

Spinal disorders are among the most common medical conditions with significant impact on health related quality of life, use of health care resources and socio-economic costs. This is an easily readable teaching tool focusing on fundamentals and basic principles and provides a homogeneous syllabus with a consistent didactic strategy. The chosen didactic concept highlights and repeats core messages throughout the chapters. This textbook, with its appealing layout, will inspire and stimulate the reader for the study of spinal disorders.

Provides a comprehensive survey of the problems of the cervical spine. Experts in the field have contributed to this text on the management of the many problems generated by diseases and trauma to the cervical spine.

Spinal surgery is a unique area in the process of continuous development. New skills are applied daily in this delicate field by the spinal surgeon: this professional can be either an orthopaedic surgeon or a neurosurgeon dedicated to the treatment of spinal diseases. This book offers a comprehensive approach and reviews all of the possible errors encountered by spinal surgeons in the clinical practice. It is mainly directed towards young surgeons approaching spinal surgery and also to experienced surgeons with regards to complications related to the latest technologies in the spinal

field. This approach of treating and understanding problems in cervical spine surgery is unique and will guide the reader towards an improved level of attention regarding pitfalls in cervical spine surgery, therefore fostering the ability of preventing major complications and medicolegal consequences.

Cervical Spine Surgery Challenges Diagnosis and Management Thieme

Designed to meet the evolving needs of the practising spinal surgeon, this modern and definitive volume adopts a regional and technique-specific approach to surgical spinal stabilisation and spinal implants. Appropriate specialists offer a thorough appraisal of the theory of design of implants (including design constraints), and optional surgical procedures available to the surgeon are fully reviewed. Full procedural descriptions are accompanied by numerous illustrations and detailed discussion of the complications which can arise during treatment is included. Medico-legal and ethical issues are also appraised.

Spine Surgery, 2nd Edition delivers step-by-step, multimedia guidance to help you master the must-know techniques in this field. Part of the popular and practical Operative Techniques series, this orthopaedics reference focuses on individual procedures, each presented in a highly visual, easy-to-follow format for quick reference. Access the entire text, fully searchable, online at www.expertconsult.com. Concentrate on precisely the information you need with brief, highly illustrated coverage of each surgical technique, complemented with just the right amount of relevant science. Find the answers you need quickly and easily with a strictly templated format for consistent and rapid visual reference. View 12 surgical videos at www.expertconsult.com demonstrating how to perform state-of-the-art procedures such as C1-C2 Posterior Cervical Fixation, Minimally Invasive Deformity Correction and Fusion, and Lumbar Disc Arthroplasty. Learn today's hottest techniques with new chapters on C2 translaminar fixation, vertebroplasty/kyphoplasty, internal laminectomy, and interbody fusion. See exactly what to do using step-by-step intraoperative photos demonstrating each technique, and radiographs showing presenting problems and post-surgical outcomes. Achieve optimal results using minimally invasive surgery whenever possible. Contain costs by using new implants related to pedicle screws and interbody devices, as well as new biologics such as BMP (bone morphogenetic protein). Benefit from the latest evidence-based information from randomized trials and retrospective studies.

Summary of Readings in Neurosurgery: Spine is designed with an access to clear, incisive introduction to neurosurgery about the spine. The 10 chapters within the four parts present discussion on neurological problems related to spine as well as the diagnosis and management of the neurological disorders. With concise and convenient format, the text covers from succinct introduction on neurosurgery and its problems like spinal disorders, to the diagnosis involved complete with the management of surgical procedures. This book is packed with practical information including literature citations and index. In addition, illustrations such as clinical and operative photographs, surgical line drawings and tables, provide a clear visual understanding that demonstrate important concepts of the cases discussed. Comprehensive and conveniently compact, this book is a useful reference for neurological or neurosurgeon on neurosurgery rotation, practicing neurologist, as well as general surgeon interested in finding succinct introduction about this field, medical student in learning about neurosurgery and neurosurgical trainee in their early years. Universiti Sains Malaysia, Penerbit Universiti Sains Malaysia

Focusing solely on must-know procedures, Operative Techniques: Spine Surgery, 3rd Edition offers a highly visual, step-by-step approach to the latest techniques in the field. Thorough updates keep you current with recent changes in spine surgery, and new contributors bring a fresh perspective to this rapidly-changing specialty. Part of the popular Operative Techniques series, this practical reference focuses on individual procedures, each presented in an easy-to-follow format for quick reference. Step-by-step intraoperative photos depict each technique, and high-quality radiographs show presenting problems and post-surgical outcomes. Clean design layout features brief, bulleted descriptions, clinical pearls, and just the right amount of relevant science. Ideal for orthopaedic and neurosurgery residents, fellows, and practicing surgeons. Updated coverage includes hybrid surgery, coflex fusion, and modifications to the lateral transosseous approach.

Access Youmans: NEUROLOGICAL SURGERY, 4th Edition with all the speed, power, and convenience of CD-ROM (single-user version). A simple search command brings you information on the neurological examination of infants and children, pulmonary care and complications, shunt infection, aneurysms, injuries of the cervical spine and spinal cord, biomechanics of the spine, herniated disk disease, tumors, ethics in neurosurgery, and much more! Also features abstracts attached to the references.

The Cervical Spine is the most comprehensive, current, and authoritative reference on the cervical spine. Prepared by internationally recognized members of The Cervical Spine Research Society Editorial Committee, the Fifth Edition presents new information, new technologies, and advances in clinical decision making. The text provides state-of-the-art coverage of basic and clinical research, diagnostic methods, and medical and surgical treatments, bringing together the latest thinking of the foremost orthopaedic surgeons, neurosurgeons, neurologists, rheumatologists, radiologists, anatomists, and bioengineers. Chapters cover anatomy, physiology, biomechanics, neurologic and functional evaluation, and radiographic evaluation and address the full range of pediatric problems, fractures, spinal cord injuries, tumors, infections, inflammatory conditions, degenerative disorders, and complications. Accompanying the text is a website with the fully searchable text plus a color image bank.

This best-selling resource explores the full spectrum of surgical techniques used in spine surgery, and describes how to avoid and manage complex problems. It emphasizes how to achieve successful outcomes and minimize risks. The 2nd Edition delivers more than 25 brand-new chapters, as well as extensive revisions and updates throughout, to reflect all of the latest advances in the field. It also features contributions from an increased number of orthopaedic surgeons to round out the strong coverage provided by the many neurosurgeon contributors. Features contributions from well-known

neurosurgeons and orthopaedic surgeons, for well-rounded, authoritative coverage from beginning to end. Offers more than 825 outstanding illustrations that demonstrate how to perform every procedure step by step. Provides more than 25 brand-new chapters, as well as extensive revisions or total rewrites to the majority of existing chapters-to present all of the most up-to-date information available on every aspect of spine surgery. Includes chapters on hot topics such as Nonspinal Pathology Masquerading as Spinal Disease · Bone Void Fillers: Bone and Bone Substitutes · Data Management · Posterior Lumbar Interbody Fusion · Ankylosing Spondylitis and Related Disorders · Craniocervical Junction Deformities · Pediatric Spinal Deformities · Subsidence and Dynamic Spinal Stabilization · and The Nonoperative Management of Neck and Back Pain. With 267 additional contributing experts.

This comprehensive reference provides essential clinical information for planning and performing the full spectrum of cervical spine surgeries. Here, in one convenient volume, you'll receive expert, step-by-step guidance in both open and minimally invasive procedures, as well as instruction in relevant anatomy, instrumentation, and underlying principles. An Invaluable Resource Divided into five parts, the book begins with basic considerations and includes chapters on anatomy, biomechanics, minimally invasive versus open surgery: choosing the best approach, and image-guided spinal navigation for cervical techniques. Part II focuses on arthroplasty techniques and includes chapters on patient selection for single- and multiple-level procedures, as well as chapters devoted to different arthroplasty devices and their clinical applications. Part III is devoted to techniques using biomaterials for cervical fusion with chapters on resorbable cervical interbody spacers, resorbable anterior plates, bone morphogenetic protein, and mesh, bone, PEEK, and carbon fiber. Part IV includes several clinical chapters on different minimally invasive techniques for cervical fusion. The book concludes with Part V on regional and junctional challenges. Organized with a consistent format, each technique chapter includes information on indications and contraindications, preoperative assessment and evaluation, preoperative planning, illustrated step-by-step surgical technique, postoperative care, complications and outcomes, outcomes, and case examples showing the excellent results that can be achieved. To enhance the learning experience, two DVDs with operative video are included. Master the Skills Needed to Stay at the Forefront of the Field! This comprehensive work is a must read for all spine surgeons. It provides the practical advice, clinical nuances, and learning aids to assist you in the treatment of cervical spine disorders.

Thieme congratulates Todd J. Albert on being chosen by New York magazine for its prestigious Best Doctors 2017 list. Cervical Spine Surgery Challenges: Diagnosis and Management is a practical reference for surgeons treating patients with the full range of cervical spine disorders, including degenerative spine conditions, neoplasms, inflammatory conditions, infectious conditions, trauma, and deformities. Leading experts in the field of spine surgery present their clinical expertise, providing concise descriptions of the clinical presentation, history and examination, imaging, diagnosis, indications, preferred method of treatment, alternate treatment options, postoperative management, and complications. Highlights: Case-based format rapidly orients readers to key clinical information Comprehensive coverage of various approaches enables readers to select the best method of surgical intervention Descriptions of common complications and pitfalls provide important recommendations for avoiding errors and improving surgical outcomes Practical information on state-of-the-art techniques including minimally invasive surgery and motion-sparing technology 175 illustrations and images demonstrate important concepts This is a must-have reference for all orthopedic surgeons, neurosurgeons, spine surgeons, residents, and fellows seeking the current best practices in cervical spine surgery.

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.

The first in a new "Quick Reference" series in PM&R, this volume broadly covers the complex topic of spine care. Broken down into 100 conditions, the bulleted text and helpful illustrations provide a clinical roadmap for diagnosing and treating spine disorders commonly and not so commonly encountered in daily practice. Every entry features description, etiology, epidemiology, pathogenesis, risk factors, clinical features, natural history, diagnosis, red flags, treatment, prognosis, helpful hints, and suggested readings on two facing pages for easy access to key information at a glance. Every entry is standardized for quick look-up in the office or clinic, and features description, etiology, risk factors, clinical features, natural history, diagnosis, red flags, treatment, prognosis, helpful hints, and suggested readings. All Rehabilitation Medicine Quick Referencetitles offer: Consistent Approach and Organization: at-a-glance outline format allows readers to find the facts quickly Concise Coverage: of must-know information broken down into easy-to-locate

topics Fast Answers to Clinical Questions: diagnostic and management criteria for problems commonly encountered in daily practice Hands-on Practical Guidance: for all types of interventions and therapies Multi-Specialty Perspective: ensures that issues of relevance to all rehabilitation team members are addressed

Provides guidance on how to perform a wide-variety of techniques in spine surgery. Topics covered include immobilization techniques, anterior and posterior approaches, and thoracic spine surgery.

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.

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.

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.

2nd international symposium

Authored by a multi-disciplinary team that includes orthopedists and neurosurgeons, Textbook of the Cervical Spine is a practical, clinically focused medical reference for treating patients with the full range of cervical spine disorders. From degenerative spine conditions and inflammation, to trauma and infections, it guides today's spine surgeons, orthopaedic surgeons, neurosurgeons and residents through state-of-the art surgical and fixation techniques, today's emerging technologies, and possible complications. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Accurately handle complex situations with image-guided techniques for the management of cervical spine pathology, as well as helpful information on patient management and surgical decision making. Stay up to date on hot topics with recent case studies that orient you toward important clinical information in the field. Quickly find the information you need with succinct chapters that focus on highlights, key points, tips, and tricks. 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.

The second edition of *The Growing Spine* has been extensively revised to cover recent advances in knowledge and management. The book is intended as a comprehensive, one-stop reference for specialists and health professionals who care for young children with spinal deformities. In addition, it will effectively help to standardize the care of these patients. Depending on the etiology, children with spinal deformities are often cared for by multiple specialists, including pediatricians, pediatric orthopaedists or orthopaedic spine surgeons, neurologists, pediatric surgeons, pediatric neurosurgeons, oncologists, and pulmonologists. The multidisciplinary nature of care is reflected in *The Growing Spine*, which will be of value for all involved practitioners rather than just orthopaedic specialists. It will also be an ideal reference for nurses, physical therapists, and healthcare professionals in training, who are usually unfamiliar with spinal deformities in children.

Cervical Spine Surgery Challenges: Diagnosis and Management is a practical reference for surgeons treating patients with the full range of cervical spine disorders, including degenerative spine conditions, neoplasms, inflammatory conditions, infectious conditions, trauma, and deformities. Leading experts in the field of spine surgery present their clinical expertise, providing concise descriptions of the clinical presentation, history and examination, imaging, diagnosis, indications, preferred method of treatment, alternate treatment options, postoperative management, and complications.

Highlights: Case-based format rapidly orients readers to key clinical information Comprehensive coverage of various approaches enables readers to select the best method of surgical intervention Descriptions of common complications and pitfalls provide important recommendations for avoiding errors and improving surgical outcomes

Practical information on state-of-the-art techniques including minimally invasive surgery and motion-sparing technology

175 illustrations and images demonstrate important concepts This is a must-have reference for all orthopedic surgeons, neurosurgeons, spine surgeons, residents, and fellows seeking the current best practices in cervical spine surgery.

With more than 80 complex spine surgery cases and its streamlined case example format, this is an ideal clinical reference for the professional practice. The authors outline the patient presentation, radiologic findings, diagnosis, and treatment, followed by a discussion, to help you quickly master the thinking behind planning complicated spinal procedures.

Highlights: Organizes cases in an easy-to-follow manner perfect for the busy practitioner and resident Covers challenging cases arising from a broad spectrum of causes, including traumatic, inflammatory, neoplastic, infectious, and degenerative Includes more than 180 images and illustrations, such as MRI and CT scans, myelograms, angiograms, x-rays, and intraoperative photographs Discusses the technologies pertaining to bone morphogenetic protein and percutaneous spine surgery to help the clinician remain at the forefront of the spine field Covers surgical treatments of unusual disorders, including Klippel-Feil syndrome, thoracic outlet syndrome, dysplasia, arachnoiditis, ankylosing hyperostosis of Forestier and Rotes-Querol, thoracic arteriovenous fistula, and achondroplasia This text is a must for orthopedic surgeons, spine fellows, neurosurgeons, neurologists, pain management specialists, and residents seeking the most up-to-date information and the underlying principles in the most demanding cases in spine surgery.

This book provide useful information in the area of spinal infections, particularly with regard to those that receive delayed treatment. The book first deals with various spinal infections and their manifestations. It is strong in the areas of tuberculosis and the structural problems that ensue when spinal infections are not diagnosed and treated early. Structural diagrams are helpful. Apart from surgical techniques, adequate emphasis has been laid on clinical features, value of modern diagnostic facilities and appropriate drug therapy. This book will be a useful reference book with more infor.

Spinal disorders, especially neck and back pain, are frequent yet challenging for physicians to manage. While most texts are highly subspecialized or focus on only a specific area of management, *The Spine Handbook* provides a thorough overview of the entire spine and interdisciplinary treatment of common spinal conditions. Sections build from the foundations of history and examination, radiological imaging, and behavioral assessment through the core topics of both interventional and surgical options, as well as exploring emerging and special conditions, and neuromodulation. Chapters are written by experts from a wide array of fields, including physical therapists, radiologists, psychologists, physiatrists, anesthesiologists, orthopedic spine surgeons, and neurosurgeons. Each chapter contains key points to summarize content and discussions of anatomy, pathophysiology, presentation, imaging, and treatment options. This comprehensive handbook provides the fundamental diagnostic and therapeutic information needed to effectively deliver 'best practice' care for spinal disorders, making it a must-read for physicians of any training level that may encounter or treat spinal disorders.

Now in its Third Edition, this popular volume in the *Master Techniques in Orthopaedic Surgery Series* combines the step-by-step procedural guidance that readers have come to trust with new and updated discussions of specific procedures. The text's how-to format helps readers face the challenges of spinal surgery with confidence.

The new edition of this book provides the current information on the diagnostic techniques and therapeutic approaches that will help clinicians optimize care for patients with intervertebral disk disease. The book covers the full range of problems frequently encountered in the clinical setting, including traumatic injuries, non-degenerative disk-diseases, and the numerous clinical syndromes of the cervical, thoracic, and lumbar spine. For each syndrome, the book provides the definition and prevalence, anatomy, biomechanics, pathological anatomy and pathophysiology, clinical presentation, and the conservative and surgical treatment options. **Features of the third edition:** New information on the biomechanics of the spine, pain management recent advances in spinal injection techniques, and microsurgical treatment of lumbar disk herniation More than 560 high-quality illustrations and images, including MRIs, demonstrating key concepts In-depth

coverage of essential background information for management, rehabilitation, and preventive treatment Comprehensive online references to aid further research With its accessible presentation and comprehensive scope, this book is a valuable reference for all practicing physicians, specialists in spine surgery, orthopaedists, neurosurgeons, and residents in these specialties.

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.

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. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

Updated and expanded to reflect current management strategies and new technologies, *Decision Making in Spinal Care, Second Edition* provides readers with focused guidance to every major topic in spine, with an emphasis on clinical decision making. Covering the most common spine problems, this new edition covers the spectrum of diagnoses seen in a typical spinal practice, from trauma injuries to metabolic and degenerative diseases to spinal deformities. Highlights of the Second Edition: Focuses on must-know information that significantly impacts clinical decisions Includes new spinal technologies in the Contemporary Topics section to keep readers current Contains more algorithms, figures, and diagrams to aid understanding and facilitate rapid management guidance Written by world-renowned spinal care experts This handy portable reference will enable residents, fellows, spine surgeons, and associated clinicians in orthopedic surgery and neurosurgery to quickly access the information they need to make the right decisions in treating typical spinal conditions.

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

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