

Handbook Of Spine Surgery

The Scoliosis Handbook of Safe and Effective Exercises Pre and Post Surgery
 The Spine Handbook
 Handbook of Skull Base Surgery
 Surgery of the Spine and Spinal Cord
 PEEK Biomaterials Handbook
 Spine Essentials Handbook
 Spine
 Navigation and Robotics in Spine Surgery
 The Textbook of Spinal Surgery
 Handbook of Spine Technology
 Handbook of Spine Surgery
 Emory's Illustrated Tips and Tricks in Spine Surgery
 Handbook of Clinical Examination in Orthopedics
 Handbook of Spine Surgery
 Synopsis of Spine Surgery
 Navigation and Robotics in Spine Surgery
 Handbook of Pediatric Neurosurgery
 Handbook of Neurosurgery, Neurology, and Spinal Medicine for Nurses and Advanced Practice Health Professionals
 Spine Technology Handbook
 Handbook of Neuroendovascular Surgery
 Revision Spine Surgery
 Spine Surgery
 Handbook of Pediatric Surgery
 Spine Essentials Handbook
 Manual of Spine Surgery
 Handbook of Neurosurgery
 Oxford Textbook of Neurological Surgery
 Handbook of Spinal Cord Injuries and Related Disorders
 Minimally Invasive Spine Surgery
 The Neurosurgeon's Handbook
 Handbook of Neurosurgery
 Handbook of Robotic and Image-Guided Surgery
 Spine Surgery
 Handbook of Minimally Invasive and Percutaneous Spine Surgery
 Handbook of Small Animal Spinal Surgery
 The Resident's Guide to Spine Surgery
 Pocket Atlas of Spine Surgery
 Physical Examination of the Spine
 Handbook of Neurosurgery, Neurology, and Spinal Medicine for Nurses and Advanced Practice Health Professionals
 Introduction to Graph Theory

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ELLIS VANG

The Scoliosis Handbook of Safe and Effective Exercises Pre and Post Surgery Thieme

Handbook of Minimally Invasive and Percutaneous Spine Surgery, edited by Drs. Wang, Anderson, Ludwig, and Mummaneni, is destined to become a favorite with all students of spine surgery, whether residents in training or experienced practitioners. Small enough to fit in a lab coat pocket, this exceptional manual is just the resource you need. It will prove invaluable as a quick reference in daily practice or simply as a refresher when confronting a difficult clinical problem. This fully illustrated fundamental guide focuses on procedures and techniques that require minimal exposure. Presented in a concise and readable format, this text delivers the basics for those new to minimally invasive surgery as well as pointers and tips for more advanced surgeons. It is destined to become a favorite with all students of spine surgery. Composed of 11 chapters, this practical manual begins with the true foundation of minimally invasive surgery—imaging. Safe and effective surgery performed through minimal exposures demands a thorough mind's-eye understanding of anatomy without visualization. Moreover, it requires a keen ability to mentally translate two-dimensional imaging into three-dimensional anatomy. Next, the most common techniques of cannulation are covered in a logical step-by-step fashion, just as it is taught in the operating room. Minimally invasive options for pedicle screw placement are completed with a chapter describing the mini-open

technique. The second half of this book focuses on fusion and pedicle screw insertion. Finally, this handbook does not ignore the endpoint of all these techniques—achieving successful fusion. Techniques to enhance the success of this outcome are discussed in Chapter 9, whereas potential complications and methods to avoid them are outlined in Chapter 8. Each chapter concludes with "Surgical Pearls and Pitfalls," which provide summaries of the salient points discussed in the chapter. Unique to this text are highlighted boxes outlining "Bailouts/Alternative Strategies" for completing the task when classic techniques fail. Furthermore, each chapter is well illustrated, with step-by-step images that clearly demonstrate the points being made. Written by world-recognized minimally invasive spine surgeons, this handbook provides essential coverage of key topics.

The Spine Handbook Lippincott Williams & Wilkins

"Fifty-six American and Canadian specialists in spinal surgery contribute to a text providing residents with the information needed during spine surgery rotations. Thirty-four chapters are organized into sections covering examination and diagnostics, trauma, infection, tumors, degenerative disorders, spinal deformity, metabolic and inflammatory disorders, and surgical approaches. Illustrated with photographs and diagrams, algorithms, lists, charts, and tables throughout the text, this resource can be read cover to cover during a rotation or used as a quick reference before a patient work-up or procedure. Annotation : 2004 Book News, Inc., Portland, OR (booknews.com)"--[source inconnue].

Handbook of Skull Base Surgery Thieme

Drawing on the experience of leaders in both neurosurgery and orthopedic surgery, Handbook of Spine Surgery is authoritative, concise, and portable,

designed for use in a fast-paced clinical setting. Its coverage of both principles and techniques of contemporary spine surgery, including anatomy, pathology, procedures, and instrumentation, makes it highly useful as a refresher before surgery, an easily digestible study guide, or a daily companion for physicians caring for patients with spinal disorders. Key Features: An easy-to-read, bullet-style format that provides readable but not overwhelming content Surgical Pearls that tap into the experiences of surgeons who have mastered that procedure Common Clinical Questions (with answers) at the end of each chapter that highlight topics frequently encountered in the operating room and on board exams Superb visual examples that illuminate the procedures described Helpful appendices that cover positioning, spinal orthoses, and scales and outcome measures A first-of-its-kind, this handbook is designed to be the go-to guide for those conducting and involved in surgical spine treatment.

Surgery of the Spine and Spinal Cord Springer

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.

PEEK Biomaterials Handbook William Andrew

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.

Spine Essentials Handbook Springer

This handbook is the most authoritative and up-to-date reference on spine technology written for practitioners, researchers, and students in bioengineering and clinical medicine. It is the first resource to provide a road map of both the history of the field and its future by documenting the poor clinical outcomes and failed spinal implants that contributed to problematic patient outcomes, as well as the technologies that are currently leading the way towards positive clinical outcomes. The contributors are leading authorities in the fields of engineering and clinical medicine and represent academia, industry, and international government and regulatory agencies. The chapters are split into five sections, with the first addressing clinical issues such as anatomy, pathology, oncology, trauma, diagnosis, and imaging studies. The second section, on biomechanics, delves into fixation devices, the bone implant interface, total disc replacements, injury mechanics, and more. The last three sections, on technology, are divided into materials, commercialized products, and surgery. All appropriate chapters will be continually updated and available on the publisher's website, in order to keep this important reference as up-to-date as possible in a fast-moving field.

Spine Springer Nature

'The Neurosurgeon's Handbook' covers all aspects of adult and paediatric neurosurgery such as epidemiology, pathology, clinical and neuroradiological characteristics and clinical management.

Navigation and Robotics in Spine Surgery Oxford University Press, USA

This practical handbook allows nurses, advanced practice nurses, physician assistants, and allied health professionals practicing in the fields of neurosurgery, neurology, and spinal care to quickly review essentials while in the work environment. It emphasizes procedural steps and critical elements in patient management, including intensive care, the neurological examination, differential diagnoses, and pain management. Written by a multidisciplinary team of experts, the handbook is expected to become a well-worn companion and essential aid to the busy practitioner.

The Textbook of Spinal Surgery Thieme

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.

Handbook of Spine Technology Thieme

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 o

Handbook of Spine Surgery Thieme

This book provides a detailed clinical examination of various orthopedic joints. Each chapter covers the relevant anatomical aspects, as well as basic and advanced tests that can help to understand the patient's condition and arrive at an appropriate diagnosis. The book includes a wealth of step-by-step illustrations, clinical photographs, algorithms and flowcharts to aid in decision-making. Written by established experts, concise and informative, it offers a valuable guide for all orthopedic residents, and for medical students.

Emory's Illustrated Tips and Tricks in Spine Surgery Thieme

PEEK biomaterials are currently used in thousands of spinal fusion patients around the world every year. Durability, biocompatibility and excellent resistance to aggressive sterilization procedures make PEEK a polymer of choice, replacing metal in orthopedic implants, from spinal implants and hip replacements to finger joints and dental implants. This Handbook brings together experts in many different facets related to PEEK clinical performance as well as in the areas of materials science, tribology, and biology to provide a complete reference for specialists in the field of plastics, biomaterials, medical device design and surgical applications. Steven Kurtz, author of the well respected UHMWPE Biomaterials Handbook and Director of the Implant Research Center at Drexel University, has developed a one-stop reference covering the processing and blending of PEEK, its properties and biotribology, and the expanding range of medical implants using PEEK: spinal implants, hip and knee replacement, etc. Covering materials science, tribology and applications Provides a complete reference for specialists in the field of plastics, biomaterials, biomedical engineering and medical device design and surgical applications

Handbook of Clinical Examination in Orthopedics Bailliere Tindall Limited

Quickly retrieve essential facts, equipment information and clinical pearls when preparing for a neuroendovascular case Ideal for both newcomers and practitioners of the specialty, Handbook of Neuroendovascular Surgery is both a succinct introduction and a quick reference guide for key concepts and technical information prior to, during, and after a procedure. It progresses logically from basic scientific concepts to equipment and technical aspects to treatment of specific neurovascular diseases, expertly capturing the core information needed in daily practice. Key Features: Contributions by neurosurgeons, radiologists, and neurologists reflect the multidisciplinary nature of neuroendovascular treatment Critical summaries of Peri-Operational Patient Care and Equipment and Techniques to help in case preparation Generous use of tables and illustrations create fast visual summaries and distill large amounts of information Valuable appendices on routinely used technical information, pathology classification systems, endovascular medications, and full-color pictorials designed for teaching and patient education. The pictorials are available for download at Thieme's Media Center. Written by specialists trained in both open cerebrovascular neurosurgery and neuroendovascular surgery, this portable handbook is a treasure trove of practical information that is essential for both beginners and more experienced neurosurgeons who want to refresh their knowledge in state-of-the-art neuroendovascular techniques.

Handbook of Spine Surgery CRC Press

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.

Synopsis of Spine Surgery Springer Nature

Unique resource provides spine surgeons with the right tools and mindset to perform minimally invasive surgery Minimally Invasive Spine Surgery: A Primer by Luis Manuel Tumialán is the ideal introduction to minimally invasive spine approaches, especially for neurosurgery and orthopedic residents, fellows, and spine surgeons who want to incorporate minimally invasive approaches into their practice. The Primer offers a treasure trove of 3D illustrations and animations that virtually brings the aspiring minimally invasive spine surgeon into the operating room alongside their professor. The text starts with a discussion of open spine surgery versus minimally invasive procedures and the optimal mindset required to convert from one to the other. The book is divided into lumbar, cervical, and thoracic spine sections, and a fourth section dedicated to the fundamentals of fluoroscopy and radiation exposure. The text begins with an overview, history, and evolution of each procedure, followed by a discussion of the anatomical basis for using a minimally invasive approach. Each anatomical section starts with the least complicated surgeries, thereby laying the foundation for more complex procedures discussed in subsequent chapters. The third section focuses on thoracic decompression, nerve sheath tumors in the lumbar and thoracic spine, and management of metastatic disease and intradural extramedullary lesions. Key Features Single-authored text provides uniform readability and philosophy—cover to cover Lumbar approaches include microdiscectomy, laminectomy, transforaminal interbody fusions, and the transpoas approach Cervical procedures encompass posterior foraminotomy, laminectomy, and anterior discectomy Superb illustrations, high-fidelity anatomical animations based on computer modeling, and procedural videos enhance understanding of minimally invasive spine principles This unique, single-author Primer is a must-have resource for early-career spine surgeons who wish to learn minimally invasive principles, as well as

veteran surgeons who have a desire to incorporate minimally invasive spine surgery into clinical practice.

Navigation and Robotics in Spine Surgery Thieme

An essential backpack-size resource on the treatment of pediatric neurological conditions Pediatric neurosurgery has witnessed considerable technological advances, resulting in more efficacious outcomes for young patients with hydrocephalus, epilepsy, brain tumors, spinal deformities, and a host of other conditions. The art of pediatric neurosurgery is a delicate balancing act—taking into account child and parents and emotional and disease challenges. As such, the management of serious neurological conditions in pediatric patients must encompass the big picture in addition to treating underlying pathologies. Handbook of Pediatric Neurosurgery by George Jallo, Karl Kothbauer, and Violette Recinos covers the full depth and breadth of this uniquely rewarding subspecialty including congenital, developmental, and acquired disorders. The latest information is provided on anatomy, radiological imaging, and principles guiding the surgical and nonsurgical management of a full spectrum of neurological pathologies impacting infants and children. The book is divided into 11 sections and 56 chapters with state-of-the-art procedures, best practices, and clinical pearls from top pediatric neurosurgeons. Key Features Cranial disorders including Chiari malformations, encephaloceles, Dandy-Walker malformation, and craniosynostosis Benign and malignant tumors—from the hypothalamus and optic pathways to the brainstem and spinal column Spinal abnormalities such as spina bifida, tethered cord, and scoliosis Clinical questions and answers at the end of chapters—ideal for self-testing and exam prep Comprehensive and compact, this is the perfect backpack reference for neurosurgery residents and pediatric neurosurgery fellows to carry on rounds. It is also a must-have resource for seasoned pediatric neurosurgeons and all practitioners entrusted with the neurological care of pediatric patients.

Handbook of Pediatric Neurosurgery Springer Nature

From the authors of the bestselling Spine Surgery: Tricks of the Trade, here is the concise how-to guide on conducting diagnostic spine exams. The text begins with a thorough review of the fundamentals, including basic anatomy and neurology, and goes on to systematically outline tests for the cervical, thoracic, and lumbar spine. It is an ideal resource for both beginners and practicing physicians. Key features include: Nearly 200 line drawings that illustrate motor, sensory, reflex, and range-of-motion exams Includes special tests for scoliosis and other spine disorders to expand your scope of diagnostic procedures Succinct and easy-to-understand descriptions for easy mastery of concepts Well-organized by cervical, thoracic, and lumbosacral sections to streamline localization of specific exams This straightforward pictorial aid is the perfect companion for spine surgeons, orthopedists, chiropractors, and neurosurgeons, as well as an ideal orientation for residents. From critical anatomy to step-by-step instructional guidelines, it will enhance your examination skills and refresh your understanding of the frequently performed spinal test.

Handbook of Neurosurgery, Neurology, and Spinal Medicine for Nurses and Advanced Practice Health Professionals CRC Press

This book offers essential guidance on selecting the most appropriate surgical management option for a variety of spinal conditions, including idiopathic problems, and degenerative disease. While the first part of the book discusses the neuroanatomy and biomechanics of the spine, pain mechanisms, and imaging techniques, the second guides the reader through the diagnostic process and treatment selection for disorders of the different regions of the spine, based on the principles of evidence-based medicine. I.e., it clearly explains why a particular technique should be selected for a specific patient on the basis of the available evidence, which is carefully reviewed. The book identifies potential complications and highlights technical pearls, describing newer surgical techniques and illustrating them with the help of images and accompanying videos. Though primarily intended for neurosurgeons, the book will also be of interest to orthopaedic surgeons, specialists in physical medicine, and pain specialists.

Spine Technology Handbook Thieme

With an emphasis on set-up and execution and lessons learned from expert practitioners, this concise, practical guide for residents and fellows presents the essentials for both common and complex spine surgery. Proceeding anatomically from the cervical to the sacroiliac, and including chapters on spinal tumors, infection and revision surgery, nearly 40 different procedures are highlighted, from corpectomy, arthroplasty and laminectomy to percutaneous screws, decompression and fusion. Chapters include all the information a resident will need to know: indications and contraindications, imaging and diagnosis, OR set-up and instrumentation selection, the specific operative technique, post-operative protocols, and clinical pearls and pitfalls. Radiographs and full-color intraoperative photographs accompany each procedure. Whether suturing dura or performing a lateral interbody fusion, spinal surgery is a technical pursuit, and having a firm grasp of the details can ultimately determine the procedure's success. Written and edited by veterans in orthopedic surgery and neurosurgery, The Resident's Guide to Spine Surgery is just the detailed, user-friendly resource for up-and-coming clinicians looking to develop and expand their surgical expertise.

Handbook of Neuroendovascular Surgery Springer

Over the past decade, there has been rapid growth in bioengineering applications in the field of spine implants. Spine Technology Handbook explains the technical foundation for understanding and expanding the field of spine implants, reviews the major established technologies related to spine implants, and provides reference material for developing and commercializing new spine implants. The editors, who have a track record of collaboration and editing technical books, provide a unified approach to this topic in the most comprehensive and useful book to date. Related website provides the latest information on spine technology including articles and research papers on the latest technology and development Major technologies reviewed include devices used for fusion (screws, plates, rods, and cages), disc repair and augmentation, total disc replacement, and vertebral body repair and augmentation Technology landscape, review of published/public domain data currently available, and safety and efficacy of technology discussed in detail