Spinal Surgery Journal

Spinal disorders in very young children may be caused by a variety of conditions. The treatment of such conditions is often challenging due to the age of the patient and the progressive nature of the deformity. There also may be associated problems such as congenital anomalies, respiratory insufficiency, and neurological problems. Depending on the etiology of the deformity, these children are often cared for by multiple specialists including pediatricians, pediatric orthopaedists or orthopaedic spine surgeons, neurologists, pediatric surgeons, pediatric neurosurgeons, oncologists, and/or pulmonologists. Health professionals in all of the mentioned disciplines are involved in the management of these patients, which is why compiling a comprehensive textbook that is not limited to orthopedic specialists is essential. This textbook will effectively help to standardize the care of these patients. Furthermore, other professionals such as nurses, physical therapists and healthcare professionals in training are usually not familiar with these conditions and are in need of a reference book to consult when caring for children with spinal deformities.

Drawing on the expertise of world-renowned orthopedic and neurological spine surgeons, Controversies in Spine Surgery: Best Evidence Recommendations compiles, summarizes, and synthesizes the most relevant scientific literature available in the field today.Each succinct, problem-oriented chapter addresses a different controversial issue where there is a lack of consensus

about the best possible course of action. The authors provide guidance and objective recommendations for each scenario based on the most relevant data found in the literature to give surgeons the background they need to make fully informed treatment decisions.Features: Concise outline format enables rapid reading for the busy spine surgeon Invaluable synopses of highly practical evidence-based literature Detailed coverage of commonly disputed issues, such as how to manage vertebral compression fractures, surgery for axial back pain, minimally invasive lumbar fusion, the use of prophylactic antibiotics in spine surgery, and much more Grading of Best Evidence feature in which the authors rate the viability of the data presented Numerous summary tables throughout the text emphasize the main conclusions of published studies Pearls highlight important points in each chapter This cutting-edge clinical reference will help every resident, fellow, and spine surgeon in orthopaedic surgery and neurosurgery streamline their medical decision making process and improve their patient care.This is exactly the book one should have ready access to.--American Journal of NeuroradiologyAll providers who care for patients with spinal problems should consider using this book to help with decision making for their patients on an everyday basis.--Journal of Neurosurgery

Designed to provide all the information needed by residents during spine surgery rotations, this long-awaited second edition is your go-to source of essential information on every key aspect of spine surgery. Written by established and upcoming leaders and pioneers in the

field, this single-volume resource can easily be read cover to cover during a rotation or used for quick reference before a patient workup or operation. Thoroughly revised and updated, it not only provides the high-yield information you must know, but also gives you a practical understanding of treatment options for a wide variety of spinal problems.

Are you looking for a fun gift for someone close to you? This is a perfect blank, lined notebook for men, women, and children. Great for taking down notes, reminders, and crafting to-do lists. Also a great creativity gift for decoration or for a notebook for school or office! This notebook is an excellent accessory for your desk at home or at the office. It's the perfect travel size to fit in a laptop bag or backpack. Use it on the go and you will keep all of your notes and reminders in organized in one place. Professionally designed this 6x9 notebook provides the medium for you to detail your thoughts. Buy your notebook today and begin to fill the pre-lined pages with your heart's desire. Your new notebook includes: Fresh white paper 100 pages 6x9 inch format Paper color: White We have even more wonderful titles that you'll enjoy! Be sure to click on the author name for other great notebook ideas.

Robotic spine surgery is one of the fastest growing segments of the spine surgery market. Surgeons specialising in spine surgery are highly motivated to learn and improve their understanding of the indications,application,and future clinical scope of using new technological platforms. Spinal surgeons face time pressures but are hungry for new ways to effectively

treat patients. This book presents information in the case study format. By using examples of surgical cases of an advanced nature (e.g. spinal deformity, minimally invasive surgery, combinatorial technology using the robot) this will differ from other texts. Each case study is written by a well-respected expert in the field and represents that surgeon's most monumental case. Each case contains a concise patient history with indications, contraindications and insights to help the reader assimilate expert knowledge. The case studies examine both the unique and technical aspects of robotic planning and surgical execution, and include seminal bullet point sections: Key take away points; Tips and pearls to avoid pitfalls; and "how I could have done this better." This new text provides valuable and practical knowledge for spine surgeons and others involved in robotic surgery.
The success of any spinal operation depends on good definition of the indications, consideration of the contraindications, technical and organizational factors, good operating technique and correct preoperative preparation and positioning of the patient. These points are presented in this book as clearly as possible and are illustrated with detailed high quality artwork.
Annotation. The "Bone and Joint Decade" draws our attention with increased intensity to the problem of the changes related to aging of our musculoskeletal system and the associated socioeconomic implications. In view of the increasing age of the worldwide population the impact seems to be tremendous. The editors of The Aging Spine pick up this interesting topic and engage opinion leaders to contribute their knowledge in this

supplement. The various contributions cover most of the important problems, which are included in the vast specter of aging spine: osteoporosis, spinal stenosis, and tumors of the spine. The aging spine will be an everpresent issue in the life of a physician taking care of the different pathologies of the spine. This text will help to better understand the nature of the different changes in the spine of the elderly. It contributes to enabling us to diagnose and to treat this complex problem in an appropriate way.nbsp.

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 arthoplasty 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 morphogenic 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.

Contemporary spinal surgeons, whether orthopedic or neurosurgeons, are increasingly recognizing minimally invasive spine surgery (MISS) as a desirable option to manage advanced degenerative diseases. MISS techniques minimize blood loss, surgical site pain, and speed recovery. Thus, the marriage of MISS with adult spinal deformity was a natural one. Currently, the techniques, technologies, and education of surgeons have finally reached a point where MISS deformity surgeries are becoming commonplace. Nevertheless, the field is young enough that no comprehensive texts have addressed the unique challenges faced by surgeons exploring this evolving field. This book will fill the gap. Blood loss in spine surgery is a significant and very common problem connected with all kinds of surgical

procedures. An international faculty of authors provide a comprehensive survey on the research and evidence about blood sparing in spine surgery. This publication fills a gap in the spinal literature and provides invaluable data for all those confronted with blood loss during surgical procedures on the spine.

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.

Core Topics in Neuroanesthesia and Neurointensive Care is an authoritative and practical clinical text that offers clear diagnostic and management guidance for a wide range of neuroanesthesia and neurocritical care problems. With coverage of every aspect of the discipline by outstanding world experts, this should be the first book to which practitioners turn for easily accessible and definitive advice. Initial sections cover relevant anatomy, physiology and pharmacology, intraoperative and critical care monitoring and neuroimaging. These are followed by detailed sections covering all aspects of neuroanesthesia and neurointensive care in both adult and pediatric patients. The final chapter discusses ethical and legal issues. Each chapter delivers a state-of-the art review of clinical practice, including outcome data when available. Enhanced throughout with numerous clinical photographs and line drawings, this practical and accessible text is key reading for trainee and consultant anesthetists and critical care specialists.

Minimally Invasive Spine Surgery combines up-to-date research on surgical techniques with high-definition

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

Learn state-of-the-art MIS techniques from master spine surgeons! Significant advances have been made in minimally invasive spine (MIS) surgery approaches, techniques, and innovative technologies. By preserving normal anatomic integrity during spine surgery, MIS approaches enable spine surgeons to achieve improved patient outcomes, including faster return to normal active lifestyles and reduced revision rates. Exposing only the small portion of the spine responsible for symptoms via small ports or channels, requires a deep understanding of spinal anatomy and spinal pathophysiology. Building on the widely acclaimed first edition, An Anatomic Approach to Minimally Invasive Spine Surgery, Second

Edition, provides an expanded foundation of knowledge to master minimally invasive spine surgery. World-renowned spine neurosurgeons Mick Perez-Cruet, Richard Fessler, Michael Wang, and a cadre of highly regarded spine surgery experts provide masterful tutorials on an impressive array of cutting-edge technologies. Organized by seven sections and 51 chapters, the book presents a diverse spectrum of current safe and efficacious MIS procedures and future innovations. Nonsurgical approaches include injection-based spine procedures and stereotactic radiosurgery. Surgical technique chapters discuss MIS anterior, posterior, and lateral approaches to the cervical, thoracic, and lumbar spine, with procedures such as endoscopic microdiscectomy, vertebroplasty and kyphoplasty, percutaneous instrumentation, and robotic spine surgery. Key Features Step-by-step illustrations, including more than 400 depictions by master surgical and anatomic illustrator Anthony Pazos portray the surgeon's-eye-view of anatomy, intraoperative images, and surgical instruments, thereby aiding in the understanding of anatomy and procedures 20 online videos feature real-time operative fluoroscopy, pertinent anatomy, operative set-up, and common cervical, thoracic, and lumbar approaches Discussion of novel MIS techniques reflected in 16 new or expanded chapters, including Robotic Assisted Thoracic Spine Surgery and Stem-Cell Based Intervertebral Disc Restoration There is truly no better clinical reward for spine surgeons than giving patients suffering from debilitating spinal disorders their life back. This

quintessential MIS surgery resource will help surgeons and clinicians accomplish that goal.

Endoscopic 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.

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. ?

Spinal arthrodesis is a generally accepted procedure for the management of patients with a variety of spinal disor ders. The primary goal for spinal fusion is to eliminate the instability of the spine, often caused by trauma, deformity, tumor, inflammation or infection, and common degenera tive deterioration of the motion segments. In many clini FRA paw', cal situations, the optimal solution in restoring the spine's integrity is through surgical intervention. There are many techniques of spinal fusion applicable to the lumbar spine. Posterior (PLIF) and anterior lumbar interbody fusion (ALIF) have been developed and employed to address PLll' po . . . . . these concerns alone or in combination with various inter nal fixation devices. The anterior column is often recon structed with metallic intervertebral cages or biological Fig. ! Femoral ring allograft (FRA) and posterior lumbar inter implants (allograft or autograft bone) [16, 31]. body fusion (PLlF) spacers The success of every spine fusion procedure depends on the phenomenon of bone healing. Whether the healing process occurs depends on many factors, including the type This paper aims to provide a review of the two newly of biological graft, host factors, technique, and the rigidity developed biological cages, the femoral ring allograft of the particular surgical construct. Bone grafts serve two (FRA) spacer and the posterior lumbar interbody fusion main functions: they provide for the synthesis of new bone (PLIF) spacer (Fig. 1).

Decision Making in Spinal Care presents all the current information on management strategies for the most common spine problems, including trauma injuries, metabolic and degenerative diseases, and spinal deformities. Each chapter opens with a concise introduction to the topic and discussion of the classification of the injury, condition, or management approach. The authors then describe the diagnostic workup of the patient, the treatment options available, the likely outcome, and possible complications. Highlights: Treatment algorithms at the start of each chapter enable clinicians to rapidly determine the pathology of a spine condition, formulate a diagnostic plan, and choose which surgical or nonsurgical treatment is best Discussion of contemporary spinal issues, including spinal tumors, osteoporosis, minimally invasive surgery, and nonfusion techniques, keeps the clinician abreast of the latest advances Annotated lists of key references, complete with synopses of the articles and chapters referenced, enable readers to pursue topics at greater length More than 200 figures demonstrate important concepts This must-have reference is ideal for orthopedic surgeons, neurosurgeons, physiatrists, and primary care physicians seeking to sharpen their clinical decision-making skills in managing spine conditions. The book will also benefit spine fellows, medical students, and residents needing a comprehensive board review. Praise for this book:[Four stars] This book is required reading for orthopedic and neurosurgical fellows and residents...very highly recommend[ed]...outstanding.--Doody's ReviewThis best-

selling book returns in a second edition covering the major procedures in spine surgery and the latest technical innovations in the field. Retaining the comprehensive scope and accessible presentation of the previous edition, the book distills the basic elements of each procedure using concise descriptions and simple line drawings. New sections of the book cover minimally invasive exposure methods, motion-sparing techniques, and the latest fixation techniques.Highlights: Each chapter outlines the essentials of the procedure in just a few pages Consistent presentation throughout the book enhances ease of use Tips, pearls, lessons learned, special considerations, pitfalls, and bailout, rescue, and salvage procedures emphasize critical points to help ensure a safe and effective procedure Nearly 500 illustrations demonstrate key technical points Concise and up-to-date, this book serves as an invaluable quick reference prior to surgery. It is ideal for clinicians and residents in spine surgery, orthopedics, and neurosurgery.

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. 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.

An authoritative text in the field of the lumbar spine. Includes material on the etiology of pain, diagnosis by use of modern contrast agents in MRIs, and information on actual surgical technique. WHAT'S NEW: Provides the most up-to-date research and clinical expertise

available with 50% to 60% new material - including coverage of MRI, the etiology of pain and current surgical techniques. Contributions from a multitude of new authors offer a fresh, innovative perspective to this brand new edition and special area of orthopaedic medicine. OUTSTANDING FEATURES: Makes reference easy by first presenting an overview of the lumbar spine which includes epidemiology and anatomy. Offers guidance on proper diagnosis as well as medical and surgical management of lumbar disorders. Expands the readers perspective with contributions from leading specialists in orthopedics, neurosurgery, neurology, rheumatology, and physical therapy.

ecognized as one of the leading references on the spine, this comprehensive text brings together experts from around the world to discuss the full scope of spinal surgery. This edition presents expanded coverage of all aspects of spinal surgery including cervical, thoracic and lumbar spine; adult and pediatric; degenerative, deformity, tumors, fractures, infections and more. It also discusses indications, conditions, surgical technique, pre- and postoperative care and possible complications. Highly visual, this text contains 700 new illustrations

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.

There has been an exponential increase in the volume and quality of published research relating to spine care over the last several decades. Among thousands of articles, a small fraction has been shown to be truly "game changing," forcing the entire field to pause and take notice. These landmark studies may describe a new procedure or surgical approach, evaluate the relative effects of known treatments or techniques, introduce a new classification system, or provide new insights into natural history or disease prognosis. Such studies form the foundations of spine surgery today.This book will be a useful reference not only to the established spine surgeon, but also to neurosurgery and orthopedic residents, as well as to spine surgery fellows as they continue to fortify their knowledge surrounding spinal disorders. Further, this will no doubt serve as a useful evidence-based resource for trainees studying for professional examinations and perhaps most importantly challenge and inspire clinicians to produce high-quality impactful research.

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

physicians concerning this topic. This procedure opens up new perspectives in the surgical treatment of degenerative diseases of the lumbar spine.
Handbook of Spine Surgery, Second Edition, is a completely updated and comprehensive reference that distills the basic principles of contemporary spine surgery. Its coverage of both principles and techniques makes it an excellent refresher before surgery or a valuable daily companion for residents and surgeons caring for patients with spinal disorders. Key Features of the Second Edition: New chapters on adult degenerative deformity, pediatric scoliosis and radiographic principles of deformity Expanded spinal trauma section now includes separate chapters on cervical, thoracolumbar, and sacropelvic injuries Common clinical questions (with answers) at the end of each chapter highlight topics frequently encountered in the operating room and on board exams Easy-to-read bulleted format The second edition of this handbook is the go-to guide for all those involved in spine surgery.
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 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.

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

Challenging Cases in Spine SurgeryThieme

This book follows a context-based approach to management of early-onset scoliosis (EOS) in countries with limited resources in education, finance, and research. Due to the great variety in etiology, onset age, progression rate, and severity associated with EOS, it calls for a unique treatment plan. This book enumerates the optimal provision of surgical and non-surgical services, from education/training of local surgeons, to effective teamwork, to implementing an effective data collection system; helping the surgeon to gain a hands-on experience. It also illustrates the successful execution of deformity correction using real life experiences from countries in Asia, Africa, and Latin America. Key Features Discusses biomedical principles that will help to get universally standard implants that are credible and affordable for countries with limited resources. Specific surgical Guidelines and the ability to develop evidence-based practice for this service would be an interesting read for surgeons working in global organizations as well as to local surgeons. First book to focus on countries with limited resources for the management of early onset scoliosis.

A high-yield and comprehensive text-and-video resource for managing commonly encountered spinal conditions Spine surgery has experienced several paradigm shifts during the past few decades, with highly complex techniques introduced

at an astoundingly rapid pace. In order for new generations of spine surgeons to stay current and thrive in this innovative era of spine surgery, access to diverse multimedia learning tools is imperative. Video Atlas of Spine Surgery by renowned spine surgeon and educator Howard An and Rush University Medical Center colleagues Philip Louie, Bryce Basques, and Gregory Lopez, is a cutting-edge resource for non-operative and operative management of a diverse spectrum of cervical, thoracic, and lumbar spine conditions. Consisting of 19 chapters, the text is streamlined to facilitate learning the most important steps for each procedure. The book begins with discussion of physical exam maneuvers used to accurately diagnose specific spinal pathologies. Subsequent chapters detail extensive spine surgery techniques for managing degenerative cervical and lumbar conditions. The remaining chapters cover spinal cord, cervical, and thoracolumbar injuries; idiopathic, degenerative, and early-onset scoliosis; kyphosis; spondylolisthesis; spinal infections and inflammatory disorders; and thoracic disc disorders. Key Features Concise, bulleted text and consistent chapter outlines feature epidemiology and prevalence, pathogenesis, clinical presentation, image findings, classification, conservative and surgical management, techniques, postoperative care, and more A myriad of meticulous diagrams and illustrations, spinal imaging and photographs, and 50 high-quality spine surgery videos maximize learning Technical pearls, case examples, and board-style orthopaedic surgery questions at the end of each section optimize comprehension and retention of information This remarkable resource is a must-have for orthopaedic and neurosurgery residents and fellows, as well as practicing spine surgeons.

110 white pages College-ruled notebook (medium ruled) matte cover This funny Spinal Fusion Surgery Journal is a

great Get Well Soon gift under 10.00. It is the perfect present for boys, girls, women and men. Use it as a Get Well Soon Gift to keep track of your ideas, successes, and improvements with this Get Well Soon Diary.

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 transpsoas 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.

A unique how-to guide for spine surgeons on state-of-the-art computer-assisted navigation and robotic surgery techniques The past decade has seen major advances in image-guided spine surgery techniques, with robotically assisted approaches emerging in the last five years. While early adopters of this technology paved the way for more widespread use of navigated and robotic systems, barriers still exist. Navigation and Robotics in Spine Surgery by master spine surgeon Alexander Vaccaro and esteemed co-editors Jaykar Panchmatia, I. David Kaye, and Srinivas Prasad addresses existing issues such as the perception of increased upfront costs, intrusion on current workflow, and a lack of understanding about the potential ways these technologies can enhance the surgical experience and improve patient outcomes. Organized into six sections, the book starts with evidence-based fundamentals of navigated spine surgery and robotics including discussion of instrumentation and mechanics. Sections 2-5 serve as a surgical handbook for spine surgeons who wish to introduce these technologies into practice or augment their current repertoire with more complex techniques. Topics range from more routine procedures such as navigated and robotic minimally invasive TLIF to complex approaches like intraoperative ultrasound guided intradural spinal tumor resection. The final section looks at future directions and potential new applications for these technologies. Key Highlights An impressive group of international spine

surgeons who pioneered navigation and robotic surgery techniques share invaluable tricks of the trade Discussion of fluoroscopy- and intraoperative CT-based platforms, applications for intraoperative sonography, and radiation exposure and minimization strategies Special topics include OR set-up and workflow, surmounting the learning curve, artificial intelligence, and lessons learned from other industries Procedural videos demonstrate the benefits of computer-assisted navigation and robotic techniques This book is essential reading for orthopaedic surgery and neurosurgery residents and spine fellows who wish to learn about and incorporate these technologies into practice. Seasoned spine surgeons seeking to expand the scope of their navigated/robotic practice will benefit from chapters detailing advanced approaches.

As many as 80% of patients will suffer from back pain at some point in their lifetime. It is the most common form of disability, and the second largest cause of work absenteeism. An early, proactive management approach offers the best route to minimizing these conditions. Renowned authority Curtis W. Slipman, MD and a team of multidisciplinary authorities present you with expert guidance on today's best non-surgical management methods, equipping you with the knowledge you need to offer your patients optimal pain relief. Refresh your knowledge of the basic principles that must be understood before patients with spinal pain can be properly treated. Know what to do when first-line tests and therapies fail, using practice-proven diagnostic and therapeutic algorithms. Offer your patients a full range of non-surgical treatment options, including pharmacology, physical therapy, injection techniques, ablative procedures, and percutaneous disc decompression. Make an informed surgical referral with guidance on indications, contraindications, methods, and postoperative rehabilitation. Better understand key

techniques and procedures with visual guidance from more than 500 detailed illustrations.

The challenge of treating complex spinal deformity often demands innovative solutions and greater skill than the initial surgical intervention; strategic planning is the critical element in successful surgical execution and outcome. Spinal Deformity: A Guide to Surgical Planning and Management, edited and written by the leading experts, is a landmark publication that provides critical information needed to safely plan, stage, and execute operations for the full range of complex spinal deformities. A Virtual Gold Mine of Information This book is an invaluable and practical tool for managing spinal deformities in your practice. Organized into four parts, it begins with a focus on recent advances in spine technology, starting with biomechanics, deformity classification, conservative management, and surgical indications. Subsequent chapters discuss technologic innovations, including spinal biologics, image guidance, and minimally invasive approaches for anterior and posterior spinal fusion. This introductory section is essential reading for the surgeon learning basic technique as well as for the experienced surgeon seeking to refine and enhance skills. The remaining parts focus on state-of-the-art surgical techniques for treating spinal deformity in the cervical spine, the thoracic spine, and the lumbosacral spine. Specific chapters have also been included on managing deformities at the cervicothoracic, thoracolumbar, and lumbosacropelvic junctions. In addition, both open and minimally invasive techniques are described. Organized with a consistent format, each technique chapter includes information on indications, planning and assessment, clinical problem solving, surgical technique, and postoperative care. A Who's Who of Spine Surgery The editors, Drs. Mummaneni, Lenke, and Haid; the part editors, Drs. Benzel, Kuklo, Resnick, and Shaffrey; and

the contributors are world-renowned both neurosurgeons and orthopedic surgeons who have extensive experience in treating spinal deformity. Algorithms, Surgical Plans, and Tips and Tricks Aid in the Decision-Making Process Beautifully illustrated with step-by-step surgical technique, this book provides the practical advice, clinical nuances, and learning aids to assist you in the diagnosis and treatment of complex surgical deformities. Numerous imaging modalities are used to demonstrate the preoperative presentation as well as postoperative results. In addition, clinical problem-solving sections with treatment algorithms guide you in selecting the best surgical approach for each patient. Hundreds of case examples demonstrate the excellent results that can be achieved. To enhance the learning experience, an accompanying DVD with operative video is included.