

## Rothman Simeone The Spine

Specifically designed for use in a fast-paced clinical setting, Pocket Atlas of Spine Surgery is a concise surgical guide that gives readers the essential tools needed to successfully perform spine surgery. It provides a distinctive view of complex spinal anatomy that facilitates a better understanding of the subtleties of both open and technically demanding minimally invasive spine procedures. Key Features: An introductory chapter on patient positioning covers the basics for common cervical, thoracic, and lumbar procedures Detailed illustrations with unique anatomical overlays are provided for each step in a surgical procedure The procedures included represent most of those encountered in a typical spine surgery practice Tips and Pearls before you begin, key steps with visuals, and Potential Pitfalls are included for each procedure This atlas will serve as a valuable resource to orthopedic surgeons, neurosurgeons, and surgical trainees as well as physician assistants, surgical nurses, and all those involved in the operative care of patients undergoing spine surgery.

Recognized 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

Rapid advances in MRI are transforming the treatment of patients suffering from the craniocervical syndrome (CCS). Articles in this publication have been written by leading international experts in the field to provide practitioners with a better understanding of the subtle anatomy and MRI appearances at the craniocervical junction, along with insight into the clinical significance of cerebrospinal fluid (CSF) flow measurements and their relationship to posture. The surgical management of patients with damage to the ligaments at the craniocervical junction and the role of cervical spinal trauma in neurodegenerative diseases as well as CSF flow obstruction are also discussed. This publication is valuable reading for practitioners in the fields of radiology, neurosurgery, neurology, pain management, orthopaedic surgery as well as for chiropractors and osteopaths.

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.

Get comprehensive, practical coverage of both surgical and non-surgical treatment approaches from the world's most trusted authorities in spine surgery and care. Rothman-Simeone and Herkowitz's The Spine, 7th Edition, edited by Drs. Steven R. Garfin, Frank J. Eismont, Gordon R. Bell, Jeffrey S. Fischgrund, and Christopher M. Bono, presents state-of-the-art techniques in both text and video formats, helping you apply today's newest developments in your practice. Highlights critical information through the use of pearls, pitfalls, and key points throughout the text, as well as more than 2,300 full-color photographs and illustrations. Offers a newly revised, streamlined format that makes it easier than ever to find the information you need. Contains new chapters on the clinical relevance of finite element modeling and SI joint surgery. Includes an expanded section on minimally invasive spine surgery, including recent developments and future directions. Provides the latest evidence-based research from high-quality studies, including new randomized controlled trials for lumbar stenosis, surgery, fusion, and injections. Presents the knowledge and expertise of new international contributors, as well as new editorial leadership from Dr. Steven Garfin. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

Describes possible pitfalls and complications of treatments of spinal disorders in the preoperative, operative, and postoperative periods. Each concise chapter presents specific preoperative planning, surgical techniques, and surgical complications of a disorder. This consistent organization helps the reader access information quickly and reduces repetition.

Cardiac Surgery: Operative Technique, by Drs. Donald B. Doty and John R. Doty, is your essential source on how to perform today's full range of cardiac surgical techniques. Over 1,000 crisp illustrations and expert, evidence-based discussions guide you step by step, equipping you to perform all of the latest procedures and get the best outcomes. Focus on the practical how-tos you need to perform each operation. Know what to do, what to avoid, and how to manage complications with the authors' discussions of their preferred methods. Benefit from the seasoned expertise of two master cardiac surgeons with decades of experience. Keep your skills current with state-of-the-art coverage of coronary artery surgeries, heart-lung transplantation, lung transplantation, and much more - including the latest evidence for each procedure. Know what to look for and how to proceed with over 1,000 remarkable illustrations and photographs - many new, many in full color - that capture exactly what you will see during surgery.

Learn state-of-the-art MIS techniques from master spine surgeons! Significant advances have been made in minimally invasive spine (MIS) surgery approaches, techniques, and innovative technologies. By preserving normal anatomic integrity during spine surgery, MIS approaches enable spine surgeons to achieve improved patient outcomes, including faster return to normal active lifestyles and reduced revision rates. Exposing only the small portion of the spine responsible for symptoms via small ports or channels, requires a deep understanding of spinal anatomy and spinal pathophysiology. Building on the widely acclaimed first edition, An Anatomic Approach to Minimally Invasive Spine Surgery, Second Edition, provides an expanded foundation of knowledge to master minimally invasive spine surgery. World-renowned spine neurosurgeons Mick Perez-Cruet, Richard Fessler, Michael Wang, and a cadre of highly regarded spine surgery experts provide masterful tutorials on an impressive array of cutting-edge technologies. Organized by seven sections and 51 chapters, the book presents a diverse spectrum of current safe and efficacious MIS procedures and future innovations. Nonsurgical approaches include injection-based spine procedures and stereotactic radiosurgery. Surgical technique chapters discuss MIS anterior, posterior, and lateral approaches to the cervical, thoracic, and lumbar spine, with procedures such as endoscopic microdiscectomy, vertebroplasty and kyphoplasty, percutaneous instrumentation, and robotic spine surgery. Key Features Step-by-step illustrations, including more than 400 depictions by master surgical and anatomic illustrator Anthony Pazos portray the surgeon's-eye-view of anatomy, intraoperative images, and surgical

instruments, thereby aiding in the understanding of anatomy and procedures 20 online videos feature real-time operative fluoroscopy, pertinent anatomy, operative set-up, and common cervical, thoracic, and lumbar approaches Discussion of novel MIS techniques reflected in 16 new or expanded chapters, including Robotic Assisted Thoracic Spine Surgery and Stem-Cell Based Intervertebral Disc Restoration There is truly no better clinical reward for spine surgeons than giving patients suffering from debilitating spinal disorders their life back. This quintessential MIS surgery resource will help surgeons and clinicians accomplish that goal.

Rothman-Simeone The Spine helps you achieve optimal outcomes in the clinical practice of spine surgery in adults and children. Drs. Harry N. Herkowitz, Steven R. Garfin, Frank J. Eismont, Gordon R. Bell, Richard Balderston, and an internationally diverse group of authorities help you keep up with the fast-paced field and get the best results from state-of-the-art treatments and surgical techniques, such as spinal arthroplasty and the latest spinal implants and equipment. An all-new full-color design and surgical videos on DVD and online at [www.expertconsult.com](http://www.expertconsult.com) make this classic text more invaluable than ever before. Get the best results from the full range of both surgical and non-surgical treatment approaches with guidance from the world's most trusted authorities in orthopaedic spine surgery. Find important information quickly through pearls, pitfalls, and key points that highlight critical points.

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 transposas 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.

This masterwork has been considered the defining source on the basic science and clinical practice of spine surgery in adults and children for 30 years. The new 5th Edition represents the most sweeping overhaul of this landmark reference yet - with many new contributors, a wealth of new content, a totally new organization, and many enhanced illustrations. You'll find the latest techniques for bone grafting and bone growth augmentation artificial disc replacement minimally invasive spine surgery and much more ... all in the two-volume set that practitioners have been turning to for the best operative and nonoperative approaches in spinal treatment since 1975. Includes state-of-the-art discussions of bone grafting and bone growth augmentation artificial disc replacement minimally invasive surgical procedures genetic applications bone morphogenetic protein as an alternative to traditional spine fusion and other timely topics. Provides a completely new section on diagnosis that delivers multi-disciplinary perspectives on this primary clinical concern. Presents a new section on The Failed Back that systematically covers even the most complex problems.

"Making the right decision for you about undergoing spine surgery is critical. When performed for a specific anatomical problem with matching symptoms, the outcomes are consistently satisfying. However, when surgery is conducted to address pain without a clear source, the consequences can be unpredictable, with patients faring poorly or becoming much worse. A failed spinal surgery can destroy your life. Do You Really Need Spine Surgery provides you and your medical providers important information to make the best choice. All relevant variables are addressed and organized into a "Treatment Grid." With this, you and your health care team can determine the most effective approach and course of action. Do You Really Need Spine Surgery gives back control of the surgical decision to you, the patient. Take it!!"--Author's website.

This exhaustive text covers all aspects of diagnosis and endovascular treatment of neurological and neurosurgical diseases of the pediatric central nervous system starting from their in utero expression. It also includes the vascular malformations of each district and their endovascular treatment. Besides the "normal" imaging techniques the advanced techniques (spectroscopy, diffusion, perfusion, and functional imaging) are covered in detail. Several topics that are often only superficially dealt with in other books are herewith covered in outstanding detail. The volume is richly illustrated with high-quality neuroradiological images, with pathological correlation where applicable. The rich analytic index makes it an easily usable tool in the everyday clinical practice. The book serves both as a reference for specialists (neuroradiologists, radiologists, neurosurgeons, neurologists, pediatricians) and as a teaching text for residents and fellows-in-training. 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.

Back and neck pain are common complaints. When you think of all of the work your back and neck do each day—constantly moving, bending and twisting as you go about your day-to-day activities—it's not surprising problems develop. It's estimated that more than 80 percent of American adults will experience at least one bout of back pain during their lifetimes. The Mayo Clinic book Back and Neck Health looks at common back and neck conditions and what can cause them. The book also discusses different ways to treat back and neck pain. This includes self-care steps you can take at home, several interventional approaches, and different types of surgery. The final chapter of the book focuses on lifestyle and how to maintain good back and neck health.

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.

Building on the strength of the previous two editions, Bergman's Comprehensive Encyclopedia of Human Anatomic Variation is the

third installment of the classic human anatomical reference launched by Dr. Ronald Bergman. With both new and updated entries, and now illustrated in full color, the encyclopedia provides an even more comprehensive reference on human variation for anatomists, anthropologists, physicians, surgeons, medical personnel, and all students of anatomy. Developed by a team of editors with extensive records publishing on both human variation and normal human anatomy, Bergman's Comprehensive Encyclopedia of Human Anatomic Variation is the long awaited update to this classic reference.

In the latest edition of Benzel's Spine Surgery, renowned neurosurgery authority Dr. Edward C. Benzel, along with new editor Dr. Michael P. Steinmetz, deliver the most up-to-date information available on every aspect of spine surgery. Improved visuals and over 100 brand-new illustrations enhance your understanding of the text, while 26 new chapters cover today's hot topics in the field. A must-have resource for every neurosurgeon and orthopedic spine surgeon, Benzel's Spine Surgery provides the expert, step-by-step guidance required for successful surgical outcomes. Glean essential, up-to-date information in one comprehensive reference that explores the full spectrum of techniques used in spine surgery. Covers today's hot topics in spine surgery, such as pelvic parameters in planning for lumbar fusion; minimally invasive strategies for the treatment of tumors and trauma of the spine; and biologics and stem cells. A total of 18 intraoperative videos allow you to hone your skills and techniques. New editor Michael P. Steinmetz brings fresh insights and improvements to the text. Features the addition of 26 chapters, including: -Biologics in Spine Fusion Surgery -Endoscopic and Transnasal Approaches to the Craniocervical Junction -Cellular Injection Techniques for Discogenic Pain -Minimally Invasive Techniques for Thoracolumbar Deformity -Spinal Cord Herniation and Spontaneous Cerebrospinal Fluid Leak -MIS Versus Open Spine Surgery Extensive revisions to many of the existing chapters present all of the most up-to-date information available on every aspect of spine surgery. Improved visuals and over 100 brand-new illustrations enhance learning and retention.

Spinal surgeons treat spinal trauma patients on a regular basis in their hospital emergency rooms. This well-illustrated, hands-on guide to the many surgical techniques required in these situations provides a solid basis for the management of spinal trauma. A comprehensive text in two volumes on spine disorders in adults and children which covers anatomy, pathophysiology, radiology, diagnosis and operative and post-operative treatment. Surgical treatment is also emphasized in terms of technique, results and management of complications.

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

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.

Focusing on the most current, cutting-edge, innovative, and advanced arthroscopic techniques for wrist and hand, elbow, shoulder, hip, knee, ankle, foot, and spine, this book presents orthopaedic surgeons with the detailed procedures needed to stay competitive in the age of managed care. With contributions from specialist leaders in orthopaedic and arthroscopic surgery, the text is supplemented by full-color arthroscopic views and custom illustrations, detailing complex procedures for rotator cuff tear, TFCC repair, meniscus repair, ACL reconstruction, intraarticular fractures and many others. Special sections on laser applications in arthroscopy and office arthroscopy make this volume a must for every practicing orthopaedic surgeon.

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.

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art discussions of bone grafting and bone growth augmentation · artificial disc replacement · minimally invasive surgical procedures · genetic applications · bone morphogenetic protein as an alternative to traditional spine fusion · and other timely topics. Provides a completely new section on diagnosis that delivers multi-disciplinary perspectives on this primary clinical concern. Presents a new section on The Failed Back that systematically covers even the most complex problems. Covers both surgical and non-surgical treatment approaches. Features a total reorganization into shorter, more focused chapters. Offers contributions from mostly new contributors, to ensure fresh, contemporary insights on every topic. Incorporates a significant amount of new and redrawn art work. With more than 125 additional contributing experts.

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.

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](http://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](http://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.

Tap into all of the latest knowledge and expertise in your field ... in print and online! Both a user-friendly printed reference and a fully searchable web site, the e-dition of this classic text gives you two fast ways to find expert solutions to the clinical challenges that arise in your practice. Regular updates online ensure that you'll always have access to the most current information! Equips you with state-of-the-art, evidence-based guidance to help you offer your patients the best possible outcomes. Includes more than 2500 outstanding illustrations that show you exactly what to look for and how to proceed. Uses highly structured full-color page layouts inside the printed 2-volume set to make reference effortless. Offers rapid access to the answers you need via the fully searchable web site. Delivers regular updates online, overseen by the authors, to keep you continually apprised of important new clinical developments. Lets you download all of the book's illustrations for use in electronic presentations. Links references to the corresponding MEDLINE abstracts to simplify further research. With more than 125 additional contributing experts. Purchase of this product includes a limited personal license for use exclusively by the individual who has purchased the product. This license and access to the web site operates strictly on the basis of a single user per PIN. The sharing of passwords is strictly prohibited, and any attempt to do so will invalidate the password. The license and access may not be lent, resold, or otherwise circulated. Full details of the license and terms and conditions of use are available upon registration. Your purchase of Rothman-Simeone The Spine Online, entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should online access to the web site be discontinued.

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.

This quick-reference guide is the first book written specifically for the many third- and fourth-year medical students rotating on an orthopedic surgery service. Organized anatomically, it focuses on the diagnosis and management of the most common pathologic entities. Each chapter covers history, physical examination, imaging, and common diagnoses. For each diagnosis, the book sets out the typical presentation, options for non-operative and operative management, and expected outcomes. Chapters include key illustrations, quick-reference charts, tables, diagrams, and bulleted lists. Each chapter is co-authored by a senior resident or fellow and an established academic physician and is concise enough to be read in two or three hours. Students can read the text from cover to cover to gain a general foundation of knowledge that can be built upon when they begin their rotation, then use specific chapters to review a sub-specialty before starting a new rotation or seeing a patient with a sub-specialty attending. Practical and user-friendly, Orthopedic Surgery Clerkship is the ideal, on-the-spot resource for medical students and practitioners seeking fast facts on diagnosis and management. Its bullet-pointed outline format makes it a perfect quick-reference, and its content breadth covers the most commonly encountered orthopedic problems in practice.

Over the past decade, minimally invasive techniques have developed rapidly and are widely applied in the management of spine disorders. With the development of enabling technologies, including specifically designed spinal retractor systems, intraoperative imaging and navigation technologies, and real-time neural monitoring, minimally invasive spine surgery (MISS) techniques are safe, effective and reproducible. Indeed, studies have confirmed the clinical and economic advantages of these procedures. Minimally Invasive Spine Surgery includes detailed discussions of enabling technologies, surgical techniques (including posterior decompression and fusion), approaches to specific diseases and conditions, as well as strategies to manage the unique risks and complications of MISS. Generously illustrated, this will be an essential reference for orthopedic surgeons, neurosurgeons and all health care professionals who treat the spine.

Rothman-Simeone The Spine E-BookExpert ConsultElsevier Health Sciences

"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](http://booknews.com))"--[source inconnue].

The 4th Edition of the ultimate reference on the management of spinal disorders. Emphasizes natural history of disorders

and careful evaluation of indications for surgery. Presents broad, contemporary coverage of pain management from neuroscience through alternative medicine. Features information on spinal instrumentation, minimally invasive lumbar surgery, and thoracoscopic surgery as well as up-to-date coverage of bone substitutes, discogenic back pain, sacroiliac joint dysfunction, re-do disc surgery, and outcomes research. New chapters on discogenic back pain, sacroiliac joint dysfunction, interventional vascular radiology of the spinal cord, bone substitutes, and outcomes research. Expanded coverage of minimally invasive lumbar surgery and thoracoscopic surgery, as well as spinal instrumentation. Includes newer technologies for imaging, and offers improved MRI and CT images throughout. FEATURES: Presents key information--written by active clinicians--in a straightforward, practice-applicable manner. Incorporates basic science and statistical information when appropriate, providing a more analytical, less anecdotal approach to management.

Emphasizes the natural history of disorders--and the careful evaluation of surgery indications--to guide readers away from over-treating the patient. Addresses factors that help readers recognize and avoid difficult clinical situations. Offers broad, contemporary coverage of pain management, from neuroscience to alternative medicine.

Rothman-Simeone The Spine helps you achieve optimal outcomes in the clinical practice of spine surgery in adults and children. Drs. Harry N. Herkowitz, Steven R. Garfin, Frank J. Eismont, Gordon R. Bell, Richard Balderston, and an internationally diverse group of authorities help you keep up with the fast-paced field and get the best results from state-of-the-art treatments and surgical techniques, such as spinal arthroplasty and the latest spinal implants and equipment. An all-new full-color design and surgical videos online at [www.expertconsult.com](http://www.expertconsult.com) make this classic text more invaluable than ever before. Get the best results from the full range of both surgical and non-surgical treatment approaches with guidance from the world's most trusted authorities in orthopaedic spine surgery. Find important information quickly through pearls, pitfalls, and key points that highlight critical points. Watch experts perform key techniques in real time with videos, on DVD and online, demonstrating minimally invasive surgery: SED procedure; thoracoscopic techniques; lumbar discectomy; pedicle subtraction osteotomy (PSO); C1, C2 fusion; intradural tumor; cervical laminoforaminotomy; and much more. Apply the newest developments in the field thanks to expert advice on minimally invasive surgery, spinal arthroplasty and the latest spinal implants and equipments. See procedures clearly through an all new full-color design with 2300 color photographs and illustrations placed in context. Access the fully searchable contents of text online at [www.expertconsult.com](http://www.expertconsult.com).

Get comprehensive, practical coverage of both surgical and non-surgical treatment approaches from the world's most trusted authorities in spine surgery and care. Rothman-Simeone and Herkowitz's The Spine, 7th Edition, edited by Drs. Steven R. Garfin, Frank J. Eismont, Gordon R. Bell, Jeffrey S. Fischgrund, and Christopher M. Bono, presents state-of-the-art techniques helping you apply today's newest developments in your practice. Highlights critical information through the use of pearls, pitfalls, and key points throughout the text, as well as more than 2,300 full-color photographs and illustrations. Offers a newly revised, streamlined format that makes it easier than ever to find the information you need. Contains new chapters on the clinical relevance of finite element modeling and SI joint surgery. Includes an expanded section on minimally invasive spine surgery, including recent developments and future directions. Provides the latest evidence-based research from high-quality studies, including new randomized controlled trials for lumbar stenosis, surgery, fusion, and injections. Presents the knowledge and expertise of new international contributors, as well as new editorial leadership from Dr. Steven Garfin.

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.

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

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