

Spine

Howard S. An, Kern Singh

The Cervical Spine Edward C. Benzel, 2012-10-22 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.

The Book on the Bookshelf Henry Petroski, 2010-12-01 From the author of the highly praised *The Pencil* and *The Evolution of Useful Things* comes another captivating history of the seemingly mundane: the book and its storage. Most of us take for granted that our books are vertical on our shelves with the spines facing out, but Henry Petroski, inveterately curious engineer, didn't. As a result, readers are guided along the astonishing evolution from papyrus scrolls boxed at Alexandria to upright books shelved at the Library of Congress. Unimpeachably researched, enviably written, and charmed with anecdotes from Seneca to Samuel Pepys to a nineteenth-century bibliophile who had to climb over his books to get into bed, *The Book on the Bookshelf* is indispensable for anyone who loves books.

Spine Secrets E-Book Vincent J. Devlin, 2020-05-23 For more than 30 years, the highly regarded Secrets Series® has provided students and practitioners in all areas of health care with concise, focused, and engaging resources for quick reference and exam review. *Spine Secrets Plus*, 3rd Edition, by Dr. Vincent J. Devlin, features the Secrets' popular question-and-answer format that also includes lists, tables, pearls, memory aids, and an easy-to-read style - making inquiry, reference, and review quick, easy, and enjoyable. The proven Secrets Series® format gives you the most return for your time - succinct, easy to read, engaging, and highly effective. Fully revised and updated throughout, including protocols and guidelines that are continuously evolving and that increasingly dictate best practices. Expanded PLUS format includes extended coverage, a larger format, colorful visual elements, and larger, detailed images and illustrations to provide an overall enhanced learning experience. Remain at the forefront of the nuances of spine surgery and related specialties with updates on new techniques and technologies, as well as changing treatment options and drug information. Top 100 Secrets and Key Points boxes provide a fast overview of the secrets you must know for success in practice and on exams. Zero in on key information with bulleted lists, mnemonics, and practical tips from prominent specialists - all providing a concise overview of important, board-relevant content. Portable size makes it easy to carry with you for quick reference or review anywhere, anytime.

Standing Up to Scoliosis Libbey E. Eicher, 2011-07 When a routine check-up discovers mild scoliosis in high school freshman Libbey Eicher, doctors were not concerned that it would progress. After all, her skeleton was almost mature. As time would tell, they should have been concerned. In *Standing Up to Scoliosis*, author Libbey Eicher tells the story of the years after she and her family received the diagnosis of scoliosis. With a rapidly decompensating spine, Eicher and her family turned to many doctors to find answers to or explanations for her case. Eicher shares her thoughts and frustrations as she faced countless doctors' appointments and seven spinal surgeries in four and a half years. Follow her journey as she learns to give her fear and frustration to God and to wait for healing in His time. In Eicher's inspirational story, you'll discover that when storms of life try to overtake you, hope still shines in the distance.

The Pediatric Spine Stuart L. Weinstein, 1994

Lumbar Spine Disorders: Current Concepts Richard W Porter, Richard M Aspden, 1995-02-28 This book draws together recent results and ideas from most of the leading UK researchers into back pain. The emphasis is on disorders of the lumbar spine, their pathogenesis, diagnosis and treatment. This is in contrast to most books on the spine which either concentrate on the normal spine or deal with a specialised approach such as surgery. By drawing together contributions from a wide range of clinical and scientific backgrounds, including alternative therapies such as osteopathy and chiropractice, the problem of low back pain is shown to be complex and multifactorial.

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

Image-guided Spine Intervention Douglas Scott Fenton, Leo F. Czervionke, 2003 This book provides background information and step-by-step procedures for a range of image-guided interventional procedures relating to the treatment of spine and back pain. Each chapter discusses a specific procedure, covering the pertinent anatomy, selection criteria, contraindications, equipment, medications, instructions, potential complications, and aftercare. Case studies, CPT codes, references, and a neurosurgeon's commentators are also provided. 625 color illustrations support the narrative instructions. Annotation copyrighted by Book News, Inc., Portland, OR.

The Resident's Guide to Spine Surgery Joseph R. O'Brien, S. Bobby Kalantar, Doniel Drazin, Faheem A. Sandhu, 2019-11-23 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.

Spine Alexander R. Vaccaro, 2005 A succinct reference that fosters a rapid mastery of the key concepts and core knowledge in spine surgery. It begins with a review of spinal anatomy and the examination techniques most relevant to the diagnosis of suspected spinal disorders. The remainder of the book progresses logically from the most commonly seen clinical problems to the least frequently encountered ones, and outline the appropriate management techniques, both surgical and non-surgical. With an authorship composed primarily of members of the acclaimed Rothman Institute spine surgery staff, this book embodies a consistent, cohesive approach based on a wealth of hands-on experience.

The Lumbar Spine Harry N. Herkowitz, International Society for Study of the Lumbar Spine, 2004 The official publication of the International Society for the Study of the Lumbar Spine, this volume is the most authoritative and up-to-date reference on the lumbar spine. This edition provides more balance between basic science and clinical material and has been completely reorganized for easy reference. New chapters cover gene therapy, outcomes assessment, and alternatives to traditional nonoperative treatment. The editors have also added chapters on preparation for surgery, surgical approaches, spinal instrumentation, and bone grafts. Chapters on specific disorders have a consistent structure—definition, natural history, physical examination, imaging, nonoperative treatment, operative treatment, postoperative management, results of surgery, and complications.

The Human Spine in Health and Disease Herbert Junghanns, Georg Schmorl, 1971

Manual Physical Therapy of the Spine - E-Book Kenneth A. Olson, 2015-02-10 Master the techniques and problem-solving skills needed to manage spinal and TMJ disorders! Manual Physical Therapy of the Spine, 2nd Edition provides guidelines to manipulation, manual physical therapy examination, and treatment procedures of the spine and temporomandibular joint. Informed by evidence-based research, this text offers detailed instructions for reaching an accurate diagnosis and developing a plan of care. Written by well-known spinal manipulation expert Kenneth Olson, this resource provides the complete information you need to make sound decisions during clinical interventions. Descriptions of manual therapy techniques include evidence-based coverage of the examination and treatment of spine and TMJ disorders, along with discussions of alternative treatment methods and potential adverse effects and contraindications to manipulation. Guidelines for completing a comprehensive spinal examination include medical screening, the patient interview, disability assessment, and tests and measures, along with an evaluation of the examination findings and the principles involved in arriving at a diagnosis and plan of care. Impairment-based manual physical therapy approach includes a review of the evidence to support its use to evaluate and treat spinal and TMJ conditions. Case studies demonstrate the clinical reasoning used in manual physical therapy. Guide to Physical Therapist Practice terminology is incorporated throughout the book, using accepted terms familiar in physical therapy settings. Expert author Ken Olson is a highly respected authority on the subject of spinal manipulation in physical therapy. A clear, consistent format for explaining techniques makes this reference easy to use in the clinical setting. NEW! Coverage of emerging topics includes soft tissue assessment, mobilization, dry needling, myofascial pain and trigger points, thoracic outlet syndrome, cervicogenic dizziness, and differentiation of headache types, plus expanded coverage of examination procedures and psychologically informed management strategies for chronic low back pain. NEW! Full-color design and photographs show essential concepts and procedures from multiple angles, illustrating hand and body placement and direction of force. UPDATED evidence-based research provides the latest thinking on manual therapy of the spine.

Orthopaedic Knowledge Update: Spine 5 Eeric Truumees, Heidi Prather, 2018-05-16 OKU: Spine 5, developed in a partnership between the American Academy of Orthopaedic Surgeons (AAOS) and the North American Spine Society (NASS), is a balanced review of the vastly expanding body of increasingly specialized spine clinical and surgical knowledge to keep you in the forefront of adult and pediatric spine care.

Minimally Invasive Spine Surgery Chadi Tannoury, 2017-04-24 The field of spine surgery is in a state of flux, with minimally invasive and open surgical procedures vying for dominance. A new volume in the Minimally Invasive Orthopaedic Surgery series, Minimally Invasive Spine Surgery weighs the pros and cons of today's open versus minimally invasive techniques, allowing you to choose the approaches that will best meet your patients' needs. In each chapter, accomplished experts describe the advantages, indications, setup, technical aspects, and problem areas associated with a given minimally invasive procedure, including critiques from surgeons who favor a standard open approach – to give you a balanced, objective foundation for surgical decision making.

Synopsis of Spine Surgery Howard S. An, Kern Singh, 2008 This edition provides an easily accessible outline format to present the latest diagnostic and management techniques. New chapters cover biological implants and motion sparing devices. It is ideal for medical students, as well as residents preparing for their annual in-service examination.

Textbook of the Cervical Spine E-Book Francis H. Shen, Dino Samartzis, Richard G Fessler, 2014-12-03 Authored by a multi-disciplinary team that includes orthopedists and neurosurgeons, Textbook of the Cervical Spine is a practical, clinically focused medical reference for treating patients with the full range of cervical spine disorders. From degenerative spine conditions and inflammation, to trauma and infections, it guides today's spine surgeons, orthopaedic surgeons, neurosurgeons and residents through state-of-the art surgical and fixation techniques, today's emerging technologies, and possible complications. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Accurately handle complex situations with image-guided techniques for the management of cervical spine pathology, as well as helpful information on patient management and surgical decision making. Stay up to date on hot topics with recent case studies that orient you toward important clinical information in the field. Quickly find the information you need with succinct chapters that focus on highlights, key points, tips, and tricks.

Minimally Invasive Spine Surgery Frank Phillips, Isador Lieberman, David Polly, 2014-06-23 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.

Arthroplasty of the Spine Robert Gunzburg, Michael Mayer, Marek Szpalski, Max Aebi, 2003-12-02 Joint replacement is a logical step in the treatment of severe joint pathologies with irreversible lesions resisting conservative therapy. At the spinal level, arthrodesis became, very early, the gold standard of treatment for severe intervertebral disc pathologies. The next logical step was to envision functional replacement, and this step was taken as early as 1956, when the first intervertebral implant was described. However, it took many more years and a great variety of proposed implant designs before clinical applications could be attempted.

Pathological Observations on the Rotated Or Contorted Spine, Commonly Called Lateral Curvature, Deduced from Practice Andrew DODS, 1824

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