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Spinal Instrumentation - Daniel H. Kim
2011-01-01 Better understanding of biomechanics, improvements in technology, and new knowledge of the disease process in the spine have led to rapid advances in spinal instrumentation. This book is your complete guide to all contemporary forms of spinal implant systems. It not only highlights the newest devices, but also gives you the clinical guidelines you need to choose and apply the best implant for any surgical situation. Along with an all-inclusive list of the spinal instruments available today, the book offers direct comparisons of each system to help you make an informed and confident selection. You will also find valuable tips on insertion techniques and complication avoidance to maximize success in the operating room. And, thousands of exquisite graphics ensure a lucid understanding of all implants and their applications. Here is your single authoritative source for upgrading your knowledge and skill set in current implant systems. No spine surgeon, orthopedic surgeon, neurosurgeon, or resident should be without this encyclopedic volume.

Spinal Instrumentation - Edward C. Benzel
1994-01-01 Designed to meet the evolving needs of the practising spinal surgeon, this modern and definitive volume adopts a regional and technique-specific approach to surgical spinal stabilisation and spinal implants. Appropriate specialists offer a thorough appraisal of the theory of design of implants (including design constraints), and optional surgical procedures available to the surgeon are fully reviewed. Full procedural descriptions are accompanied by numerous illustrations and detailed discussion of the complications which can arise during treatment is included. Medico-legal and ethical issues are also appraised.

Spinal Instrumentation - Daniel H. Kim 2005
This book is your complete guide to all contemporary forms of spinal implant systems. It not only highlights the newest devices, but also gives you the clinical guidelines you need to choose and apply the best implant for any surgical situation.

Surgical Techniques for the Spine - Thomas R. Hahter 2011-01-01 This outstanding guide to spine surgery provides step-by-step instructions to nearly 60 different spinal procedures. Each chapter is written by top international experts who offer their clinical knowledge and years of experience. Approximately 400 high quality illustrations enhance the text by providing detailed examples of the procedures. The text covers everything from anterior odontoid resection, cervical corpectomy, and thoracic fixation techniques, to anterior thoracoplasty, lateral discectomy, and scoliosis correction. Within each chapter, you’ll find indications, contraindications, procedural steps, pearls, pitfalls, and postoperative care tips. A valuable resource for residents and practitioners in orthopedics, spine surgery, and neurosurgery.
Spinal Instrumentation - Daniel H. Kim
2017-12-13 In the last two decades, spine instrumentation and surgery have undergone many improvements. The second edition benefits from contributions by renowned orthopaedic surgeons and neurosurgeons who helped create and refine the systems described in the book, and devoted their careers to educating next generations of spine surgeons. Advancements in instrumentation - plates, cages, rods, screws, disc replacements, spacers, and fusion devices - have led to improved outcomes for patients. The spinal device field has grown exponentially, and surgeons are faced with an increasingly diverse choice of instrumentation options. While the first edition categorized available systems, the new edition is focused on helping clinicians avoid complications and quickly recognize and manage complications when they do occur. Key Features A concise yet comprehensive reference that educates clinicians on the causes, recognition, and avoidance of instrumentation complications Organized by anatomical region and condition, the visualization of relevant anatomical landmarks is discussed in context with safe use of spinal instrumentation Now four-color, with more than 230 new and original illustrations Easy-to-digest text helps translate classroom knowledge into clinical application This up-to-date book will help orthopaedic surgeons and neurosurgeons learn how to utilize spinal devices more efficaciously and safely. The text is also an excellent reference for radiologists, spine fellows and residents, and physician extenders who are interested in attaining knowledge and experience in spinal instrumentation.

Endoscopic Spine Surgery and Instrumentation - Daniel H. Kim 2011-01-01 Minimally invasive spinal surgery has made tremendous strides in the past decade, with advances in instrumentation and techniques rapidly changing the scope of these procedures. Highlighted by nearly 650 high-quality images, this is the first text to comprehensively review the critical aspects and developments in the field. It features in-depth guidelines and approaches for performing cervical, thoracic, and lumbar spine surgery; percutaneous procedures; and image-guided and robotic surgery. You will also find key discussions of minimally invasive interbody fusion, thoracic discectomy, trauma stabilization, lumbar decompression, tumor resection, and more. With contributions from leading surgeons throughout the country, this text provides a solid foundation in minimally invasive spinal techniques. For all neurosurgeons, orthopedic surgeons, and spinal surgeons, it is both a useful tool and an educational resource for integrating these operative methods into practice.

Minimally Invasive Spine Surgery - Kern Singh 2015-08-31 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

Manual of Spine Surgery - Uwe Vieweg 2012-10-23 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.

**Instrumentation for Minimally Invasive Spine Surgery** - Kern Singh 2017-06-01

**Endoscopic Spine Surgery** - Daniel H. Kim 2018-01-10

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, laminection, 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.


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.

**Minimally Invasive Spine Surgery Techniques** - Gabriel Tender 2018-03-07 This book includes operative videos and teaches the reader how to perform all currently available minimally invasive spine surgery (MISS) techniques. Each chapter covers a MISS procedure and includes an introduction, indications and contraindications, surgical technique, pitfalls and pearls, discussion, conclusion, references, videos and figures. Minimally Invasive Spine Surgery Techniques is aimed at spine surgeons who are interested in learning or improving their MISS skills.

**Spine Surgery** - Alexander R. Vaccaro 2008 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.

**Operative Techniques in Spine Surgery** - John Rhee 2015-12-07 Derived from Sam W. Wiesel’s four-volume Operative Techniques in Orthopaedic Surgery, this single-volume resource contains the user-friendly, step-by-step information you need to confidently perform the full range of operative techniques in spine surgery. In one convenient place, you’ll find the entire Spine section, as well as relevant chapters from the Oncology and Pediatrics sections of Operative Techniques in Orthopaedic Surgery. Superb full-color illustrations and step-by-step explanations help you master surgical techniques, select the best procedure, avoid complications, and anticipate outcomes. Written by global experts from leading institutions, Operative Techniques in Spine Surgery, 2nd Edition, provides authoritative, easy-to-follow guidance to both the novice trainee or experienced surgeon.

**Complications of Spine Surgery** - Howard S. An 2006 Written by internationally recognized experts, this book is a comprehensive, practical guide to prevention, recognition, and management of complications in spine surgery. Sections cover the cervical spine and the thoracolumbar/lumbosacral spine and discuss the full range of complications that may be encountered, including those associated with the newest technologies, procedures, and instrumentation. Each chapter focuses on a specific type of problem and presents “how-to” strategies for avoiding and managing the problem in specific surgical procedures. Of special note are the detailed discussions of complications related to instrumentation. Each chapter includes extensive, up-to-date references. More than 150 illustrations complement the text.

**AO ASIF Principles in Spine Surgery** - Max Aebi 2012-12-06 This book has become necessary as a consequence of the rapid expansion of the surgical procedures and implants available for spinal surgery within the “AO Group”. We have not attempted to write an in-depth book on spinal surgery, but one which will help the surgeon in the use of AO concepts and implants. We consider the practical courses held all over the world essential for the teaching of sound techniques so that technical complications and poor results can be avoided for both the surgeon and, in particular the patient. This book is a practical manual and an outline of what is taught in the courses. It is intended to help the young spinal surgeon to understand the correct use of AO implants. The indications given will aid the correct use of each procedure. It must be strongly emphasized that surgery of the spine is technically demanding. The techniques described in this book should only be undertaken by surgeons who are trained and experienced in spinal surgery. Certain techniques, in particular pedicle screw fixation and cages, have not yet been fully approved by the FDA in the United States. However, throughout the rest of the world, the use of pedicle screws has become a standard technique for the spine surgeon, since it has been shown to improve fixation techniques and allow segmental correction of the spine. The use of cages has become more and more popular, specifically as a tool of minimally invasive spinal surgery.

**Anesthesia for Spine Surgery** - Ehab Farag 2012-05-17 A comprehensive guide to anesthesia specifically for spine surgery, explaining procedures from the point of view of both anesthesiologists and surgeons.

AO Spine Manual, Books and DVD - Max Aebi 2007-04-05 Based on the successful format of AO courses, this two-volume reference is a comprehensive manual for the latest AO spine techniques. Principles and Techniques begins with a complete review of basic science concepts, helping the reader understand the biomechanics, biology, and the surgical anatomy of the spine. This volume provides a systematic overview of spinal instrumentation, computer-assisted surgery, and anesthesia considerations. Clinical Applications presents a compilation of clinical cases addressing the most common spinal problems, such as spinal trauma, tumors, infections, inflammatory processes, deformities, degenerative spinal diseases, and metabolic bone disease. For each case, the book guides the reader from case presentation, through rationale for surgical treatment, and to non-operative treatment options. The authors describe potential complications in spine surgery and outcomes. Throughout both volumes, high-quality photographs and drawings illustrate surgical techniques step-by-step and demonstrate key concepts of management. Clear, easy-to-reference bulleted lists and shaded text boxes facilitate rapid review of important learning points.

Spinal Deformity - Praveen V. Mummaneni, MD 2008-01-30 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 lumbar spine. Specific chapters have also been included on managing deformities at the cervicothoracic, thoracolumbar, and lumbaracropelvic 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.

Minimally Invasive Spine Surgery - Frank Phillips 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.

Video Atlas of Spine Surgical Techniques- Federico A. Landriel 2016-05-04 This video atlas covers a broad range of spinal surgical procedures. The volume includes a collection of high quality 3-to-8 minute videos of some of the most critical spine operations performed by internationally renowned expert surgeons. Key features of the book contents include: o Downloadable high quality video content with subtitles suitable for viewing on any display (A brief preview of the book content can be viewed at https://www.youtube.com/watch?v=SxMi4UFj7HA) o Detailed descriptions of surgical indications, preoperative planning, patient positioning, surgical technique, complications, postoperative care and outcomes for each procedure o Full color images and illustrations highlighting different key stages of each surgical technique The video format allows skill development of its intended audience by conveying temporal and spatial details which often go unnoticed in photograph format. This volume will be of immense interest to both the novice and the experienced spinal surgeon as they can benefit from the visual guides presented in the book. It also serves as an ideal teaching tool for spine surgery units in medical schools.

Lumbar Interbody Fusions E-Book- Sunil V Manjila 2018-09-11 Authored by experienced surgeons and key innovators in the fast-moving field of LIF surgery, Lumbar Interbody Fusions provides an in-depth, focused approach to recent advances in surgical techniques and technology. Covering both minimally invasive and open procedures, this comprehensive reference provides step-by-step details for proven techniques, including extreme lateral, oblique lateral, and direct lateral approaches; intertransverse approaches; axial approaches; and endoscopic approaches. Focuses on the technical nuances, pearls and pitfalls of each procedure, as well as complication avoidance and management. Features high-quality radiographs and intraoperative images for superb visual guidance throughout. Covers topics that have as-yet unsettled surgical management, such as thoracolumbar and lumbosacral overlap diseases. Includes a concise review of evidence-based spine literature at the end of each procedural chapter. Features chapters on adjunct instrumentation such as pedicle screw and facet fixation, as well as graft selection and revision surgeries.

Synopsis of Spine Surgery- Howard S. An 2011-01-01 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.

Techniques in Spinal Fusion and
**Stabilization**-Patrick W. Hitchon 1995 This popular book provides clear, expert descriptions of the instrumentation currently in use for spine stabilization and fusion. Experienced surgeons discuss indications, guidelines for patient selection, operating room techniques, anticipated outcomes, potential complications, and documented results. Your understanding will be deepened by nearly 600 high-quality surgical photographs and illustrations. Excellent...covers the majority of spinal stabilization procedures...the authors are very knowledgeable... recommended for those new to spinal stabilization and [for] experienced spinal surgeons. - Journal of Orthopedic Trauma


**Spine Technology Handbook**-Steven M. Kurtz 2006-08-24 Over the past decade, there has been rapid growth in bioengineering applications in the field of spine implants. Spine Technology Handbook explains the technical foundation for understanding and expanding the field of spine implants, reviews the major established technologies related to spine implants, and provides reference material for developing and commercializing new spine implants. The editors, who have a track record of collaboration and editing technical books, provide a unified approach to this topic in the most comprehensive and useful book to date. Related website provides the latest information on spine technology including articles and research papers on the latest technology and development Major technologies reviewed include devices used for fusion (screws, plates, rods, and cages), disc repair and augmentation, total disc replacement, and vertebral body repair and augmentation Technology landscape, review of published/public domain data currently available, and safety and efficacy of technology discussed in detail

**The Resident's Guide to Spine Surgery**-Joseph R. O'Brien 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.

**Surgical Anatomy & Techniques to the Spine**-Daniel H. Kim 2006 Featuring an expanded focus on in-demand endoscopic and minimally invasive spine procedures, Surgical Anatomy and Techniques to the Spine, 2nd Edition pairs new anatomic photographs and radiographic images with expertly rendered color illustrations and clear, step-by-step descriptions to help you effectively perform all of the latest and most effective spine surgery techniques. A multidisciplinary approach makes this medical reference book relevant and informative to all surgeons regardless of their specialty or level of surgical experience with the spine. Proceed with confidence. An atlas-style format featuring clear, concise, step-by-step descriptions of the anatomy and procedures along with clinical hints and pearls, tables, and management algorithms providing swift answers and trusted guidance. Sharpen your surgical acumen with a deeper understanding of the anatomy of the surgical target and related anatomy. Comprehensive information on cervical, cervical/thoracic,
thoracic/lumbar, lumbar spine, lumbar/pelvis, and other surgical locations ensures the best approaches to spine surgery and results. Understand the spine from all angles with multiple-viewpoint, full-color photographs, and illustrations. Master surgical anatomy of the spine and the latest minimally invasive techniques. Sweeping revisions and updates-including 22 new chapters—provide new and expanded coverage of spine surgery procedures and topics such as surgical management in gunshot wound to the spine, vertebroplasty, and kyphoplasty. Visualize every step of each procedure thanks to new anatomic photographs and radiographic images, corresponding with expertly rendered illustrations which more in-depth than ever before. Access the entire text and illustrations online, fully searchable, at Expert Consult. With over 60 additional contributors.

**Handbook of Spine Surgery**—Ali A Baaj
2011-09-15 Drawing on the experience of leaders in both neurosurgery and orthopedic surgery, Handbook of Spine Surgery is authoritative, concise, and portable, designed for use in a fast-paced clinical setting. Its coverage of both principles and techniques of contemporary spine surgery, including anatomy, pathology, procedures, and instrumentation, makes it highly useful as a refresher before surgery, an easily digestible study guide, or a daily companion for physicians caring for patients with spinal disorders. Key Features: An easy-to-read, bullet-style format that provides readable but not overwhelming content Surgical Pearls that tap into the experiences of surgeons who have mastered that procedure Common Clinical Questions (with answers) at the end of each chapter that highlight topics frequently encountered in the operating room and on board exams Superb visual examples that illuminate the procedures described Helpful appendices that cover positioning, spinal orthoses, and scales and outcome measures A first-of-its-kind, this handbook is designed to be the go-to guide for those conducting and involved in surgical spine treatment.

**The Textbook of Spinal Surgery**—Keith H. Bridwell
1996 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.

**Spine Surgery**—Alexander R. Vaccaro
2012 Spine Surgery, 2nd Edition delivers step-by-step, multimedia guidance to help you master the must-know techniques in this field. Part of the popular and practical Operative Techniques series, this orthopaedics reference focuses on individual procedures, each presented in a highly visual, easy-to-follow format for quick reference. Access the entire text, fully searchable, online at www.expertconsult.com. Concentrate on precisely the information you need with brief, highly illustrated coverage of each surgical technique, complemented with just the right amount of relevant science. Find the answers you need quickly and easily with a strictly templated format for consistent and rapid visual reference. View 12 surgical videos at www.expertconsult.com demonstrating how to perform state-of-the-art procedures such as C1-C2 Posterior Cervical Fixation, Minimally Invasive Deformity Correction and Fusion, and Lumbar Disc Arthroplasty. Learn today's hottest techniques with new chapters on C2 translaminar fixation, vertebroplasty/kyphoplasty, internal laminectomy, and interbody fusion. See exactly what to do using step-by-step intraoperative photos demonstrating each technique, and radiographs showing presenting problems and post-surgical outcomes. Achieve optimal results using minimally invasive surgery whenever possible. Contain costs by using new implants related to pedicle screws and interbody devices, as well as new biologics such as BMP (bone morphogenetic protein). Benefit from the latest evidence-based information from randomized trials and retrospective studies.

**Modern Techniques in Spine Surgery**—Arvind Bhave
2014-11-30 Minimally invasive techniques are now the preferred method for spine surgery because the incision is much smaller, causing less damage to surrounding muscles, pain is usually greatly reduced, and recovery time is
This book is a practical guide to minimally invasive diagnostic and surgical techniques for spine operations. Beginning with an overview of spinal anatomy and the basics of minimally invasive surgery, the following chapters examine the management of numerous different spinal conditions. A complete chapter is dedicated to patients with spinal cord injury and rehabilitation. More than 200 clinical photographs, diagrams and tables enhance the comprehensive text, making it an invaluable resource for both trainees and practising spine surgeons. Key points: Comprehensive guide to minimally invasive spine surgery. Covers diagnosis and treatment of numerous spinal disorders. Complete chapter dedicated to spinal injury and rehabilitation. Includes more than 200 photographs and illustrations.

Advances in Spinal Stabilization - Regis W. Haid 2003-01-01 Keep up-to-date in this fast moving field Dramatic changes in spinal stabilization have taken place in the last years and the pace of change continues to accelerate. This volume is an excellent mirror of the evolution of spinal stabilization. It brings together the latest and most comprehensive reviews in minimally-invasive and novel surgical approaches and spinal stabilization techniques. Highlights in new biomaterials including radiolucent, bioresorbable, and standard titanium are discussed by experts. Biological advances including the use of bone morphogenetic protein in anterior lumbar interbody fusion as well as computer-assisted image-guided surgical techniques are demonstrated. The section on instrumentation and technique represents the most up-to-date advances in surgical technique and management of spinal disorders. Illustrations included in each chapter document these excellent papers. Because it is a must for all surgeons performing spinal surgery to keep up-to-date in this fast moving field this book is indispensable reading for them. Neurosurgeons and orthopedic surgeons will find a wealth of information in this volume on the developments in surgical approaches, biomaterials and implants, and biological innovations.

Spine Surgery Basics - Vikas V. Patel 2013-09-11 Spine surgery has increasingly become a surgical field of its own, with a distinct body of knowledge. This easy-to-use book, written by acknowledged experts, is designed to meet the practical needs of the novice and the busy resident by providing essential information on spine pathology, diagnostic evaluation, surgical procedures, and other treatments. After an opening general section, degenerative spinal disease, pediatric spine conditions, spine trauma, spine tumors, infections, inflammatory disorders, and metabolic conditions are all discussed in more depth. Alongside description and evaluation of surgical options, important background information is included on pathology, presentation, diagnosis, and nonsurgical treatments. Potential complications of surgery are also carefully considered. Spine Surgery Basics will be an invaluable aid for all who are embarking on a career in spinal surgery or require a ready reference that can be consulted during everyday practice.
Biomechanics of Spine Stabilization - Edward C. Benzel 2011-01-01

Over the past two decades there have been major advances in the treatment of spinal disorders including anterior decompression of the neural structures as well as various forms of spinal stabilization by utilization of implants. These changes primarily reflect the development of better techniques of diagnosis and anesthesia, as well as new fusion procedures that are often supplemented with instrumentation. Biomechanics of Spine Stabilization bridges the gap that has existed between the physics of biomechanical research and the clinical arena. The book helps surgeons to plan treatments for the injured spine based on sound biomechanical principles - principles that will influence the surgeon’s choice for the surgical approach, type of fusion and type of instrumentation. Biomechanics of Spine Stabilization begins with the essentials, proceeds gradually toward the development of an understanding of biomechanical principles, and, finally, provides a basis for clinical decision-making. These features make it a cover-to-cover must-read for anyone who is involved with the care of a patient with an unstable spine. Chocked full of illustrations, Biomechanics of Spine Stabilization includes:
- Physical principles and kinematics
- Segmental motion, stability and instability
- Spine and neural element pathology
- Surgical approaches and spinal fusion
- Spinal instrumentation: General principles
- Spinal instrumentation constructs: biomechanical attributes and clinical applications
- Non-operative spinal stabilization
- Special concepts and concerns
- CD-ROM containing illustrations from book to create mental images of critical anatomical, biomechanical and clinical points


The second congress of the Pacific Asian Society of Minimally Invasive Spine Surgery (PASMISS) held in Phuket, Thailand, August 5-6, 2002, was highly successful. Dr. Akira Dezawa, the president, had worked hard in organizing the congress, which was well attended. All scientific papers presented were of the highest standard and were worthy of publication in book form. This scientific meeting brought to light the practice of this modern surgical technique as it is being performed by spine surgeons in the Asia-Pacific region. Dr. Dezawa has made a great effort to collect the papers from the congress, and to have them edited and published as a text that covers all aspects of the minimally invasive spine surgical approach. Minimally invasive spinal surgery will be a highlight of operative approaches in the twenty-first century and already has been popularized worldwide. This procedure will provide surgical options that address several pathological conditions in the spinal column without producing the types of morbidity commonly seen in open surgical procedures. The contents of this book provide highly relevant and detailed information. I certainly believe that it will be a great benefit to all orthopedic surgeons who are interested in performing minimally invasive spine surgery. Charoen Chotigavanich, M.D., Chairman, Spinal Section, The Royal College of Orthopedic Surgeons of Thailand

Preface

Recent decades have been characterized by revolutionary changes in spinal surgery. Concurrent progress in implant technology and functional endscopes and the improvement of less invasive surgical techniques has opened a new dimension for spine surgery.

Benzel’s Spine Surgery E-Book - Michael P. Steinmetz 2016-06-29

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
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