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# Textbook Of Spinal Surgery

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The Textbook of Spinal Surgery  
Interventional Spine  
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Spine Surgery  
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Spine Trauma  
Textbook of Spinal Disorders  
Video Atlas of Spine Surgical Techniques  
Atlas of Spinal Operations  
Surgery of the Pediatric Spine  
Bridwell and DeWald's Textbook of Spinal Surgery  
Surgery of the Spine  
AO ASIF Principles in Spine Surgery

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## **NIXON MARTINEZ**

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The Textbook of Spinal Surgery Springer Nature

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.

**Interventional Spine** Lippincott Williams & Wilkins

A single-volume reference for managing pediatric spine disorders and disease. Ideal for neurosurgeons, pediatric neurosurgeons, and orthopedic surgeons, *Surgery of the Pediatric Spine* is a comprehensive multidisciplinary reference for the surgical management of the most frequently encountered spine problems in the pediatric patient. An overview of developmental and clinical aspects provides essential information on biomechanics, neuroimaging, preoperative evaluation, anesthesia, and neurophysiological monitoring. The book goes on to present the surgical anatomy and various approaches to the spine and spinal cord. Chapters are grouped into easy-to-reference sections that are organized by type of problem, including congenital anomalies and developmental disorders; neoplasms; vascular malformations; inflammatory and infectious diseases; neuromuscular disease; trauma; and deformities. The book also presents special techniques for the treatment of spinal deformity, such as osteotomy, vertebrectomy, VEPTR expansion

thoracoplasty, and fusionless techniques. A chapter devoted to the rehabilitation of children with spinal cord injury covers the principles and key concepts in treatment, as well as the possible secondary complications and challenges that are unique to pediatric patients. Highlights: Clinical insights from well-known experts in the fields of neurosurgery, pediatric neurosurgery, and orthopedics. Detailed information for each stage of management guides the reader through clinical presentation, diagnostic studies, indications, operative techniques, nonsurgical treatments, possible complications, and outcomes. More than 1,000 illustrations and images demonstrate key concepts. Numerous cases in selected chapters illustrate management principles and treatment outcomes. An invaluable resource for multidisciplinary approaches to patient care, this comprehensive text provides readers with a solid foundation in the specific issues associated with treating the pediatric patient with spine disease and disorders.

50 Landmark Papers Every Spine Surgeon Should Know Thieme  
*Biomechanics of the Spine* encompasses the basics of spine biomechanics, spinal tissues, spinal disorders and treatment methods. Organized into four parts, the first chapters explore the functional anatomy of the spine, with special emphasis on aspects which are biomechanically relevant and quite often neglected in clinical literature. The second part describes the mechanics of the individual spinal tissues, along with commonly used testing set-ups and the constitutive models used to represent them in mathematical studies. The third part covers in detail the current methods which are used in spine research: experimental testing, numerical simulation and in vivo studies (imaging and motion analysis). The last part covers the biomechanical aspects of spinal pathologies and their surgical treatment. This valuable reference is ideal for bioengineers who are involved in spine biomechanics, and spinal surgeons who are looking to broaden their biomechanical knowledge base. The contributors to this book are from the leading institutions in the world that are researching spine biomechanics. - Includes broad coverage of spine disorders and surgery with a biomechanical focus - Summarizes state-of-the-art and cutting-edge research in the field of spine

biomechanics - Discusses a variety of methods, including In vivo and In vitro testing, and finite element and musculoskeletal modeling

**Spinal Instability** Springer Science & Business Media

Neurosurgery is a rapidly developing and technically demanding branch of surgery that requires a detailed knowledge of the basic neuro-sciences and a thorough clinical approach. The Oxford Textbook of Neurological Surgery is an up-to-date, objective and readable text that covers the full scope of neurosurgical practice. It is part of the Oxford Textbooks in Surgery series, edited by Professor Sir Peter Morris. The book is split into 20 overarching sections (Principles of Neurosurgery, Neuro-oncology of Intrinsic Tumours; Extra-axial Tumours and Skull Lesions; Cerebro-Pontine Angle Tumours; Sellar and Supra-Sellar Tumours; Posterior Fossa Tumours; Pineal tumours; Uncommon Tumours and Tumour Syndromes; Neurotrauma and Intensive Care; Vascular Neurosurgery; Principles of Spinal Surgery; Spinal Pathology; Spinal Trauma; Peripheral Nerve Surgery; Functional Neurosurgery; Epilepsy; Paediatric Neurosurgery; Neurosurgery for Cerebrospinal Fluid Disorders and Neurosurgical Infection). Each section takes a dual approach with, 'Generic Surgical Management' chapters that focus on specific clinical problems facing the neurosurgeon (e.g. sellar/supra-sellar tumour, Intradural Spinal Tumours etc.) and 'Pathology-Specific' chapters (e.g. Glioma, Meningeal Tumours, Scoliosis and Spinal Deformity, Aneurysm etc.). Where appropriate, this division provides the reader with easily accessible information for both clinical problems which present in a regional fashion and specific pathologies. The generic chapters cover aspects such as operative approaches, neuroanatomy and nuances. Specifically each chapter in the book incorporates several strands. Firstly the fundamental neuroscience (anatomy, pathology, genetics etc.) that underlies the clinical practice. Secondly, a review of the requisite clinical investigations (e.g. angiography, electrodiagnostics, radiology). Thirdly, a thorough evidence based review of clinical practice. Following this a consideration of the key debates and controversies in the field with 'pro-' and 'con-' sections (e.g. minimally invasive spine surgery, microsurgical

treatment of aneurysms) is provided. A summary of the key papers and clinical scales relevant to neurosurgery form the concluding part. The book is a 'one-stop' text for trainees and consultants in neurosurgery, residents, those preparing for subspecialty exams and other professionals allied to surgery who need to gain an understanding of the field. It acts as both a point of reference to provide a focussed refresher for the experienced neurosurgeon as well as a trusted training resource.

#### **Spine Surgery** Lippincott Williams & Wilkins

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.

#### **Spinal Tumor Surgery** Lippincott Williams & Wilkins

The principles of treatment of spinal disorders are covered in this comprehensive, lavishly illustrated text. Corresponding X-Rays, CTs and MRIs are included with most of the line drawings to accentuate important landmarks and findings. Spinal deformity, biomechanics of the spine, embryology, osteoporosis, disorders of the cervical spine, non-operative care of the spine, tumors of the spine and physical examination are discussed. An overview of epidemiology and the treatment of congenital and acquired disorders are also included. Each chapter features a "key points" section for quick reference and review.

#### **Spinal Disorders** LWW

Textbook of Surgery is a core book for medical and

surgical students providing a comprehensive overview of general and speciality surgery. Each topic is written by an expert in the field. The book focuses on the principles and techniques of surgical management of common diseases. Great emphasis is placed on problem-solving to guide students and junior doctors through their surgical training. Throughout the book are numerous reproducible line drawings, tables and boxes that will prove invaluable for learning and revision. In addition there are detailed guidelines provided for surgical management. Up-to-date and ideal for medical students and junior doctors on surgical attachments and a perfect refresher for RACS and MRCS candidates. Reviews of the last edition "The textbook presents a compact and contemporary overview and is not so much a reference book as a working tome suitable for familiarization with current trends in treatment and diagnosis in these various areas. ...found this textbook very informative and a pleasure to read." ANZ Journal of Surgery Vol. 72, No. 12.

#### **Spine Surgery** Springer Science & Business Media

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.

#### **Advanced Techniques of Endoscopic Lumbar Spine Surgery** Thieme

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.

#### **Emory's Illustrated Tips and Tricks in Spine Surgery** Thieme

The ultimate resource for learning and mastering minimally

invasive spine surgery techniques An estimated 1.5 million instrumented spinal procedures are performed every year in the US. The majority of decompressions and about 50% of fusion procedures can be performed completely or partially using minimally invasive spine surgery (MISS) techniques. The full potential of MISS techniques has yet to be realized. Essential Step-by-Step Techniques for Minimally Invasive Spinal Surgery by internationally renowned MISS neurosurgeon Roger Härtl, spine-neurosurgeon Rodrigo Navarro-Ramirez, and an impressive group of global multidisciplinary contributors is the most comprehensive and detailed textbook written to date on this topic. The foundation of the book is built on six interacting principles critical to surgical success, and MISS in particular: Target, Technology, Technique, Teaching and Training, Testing, and Talent. The text starts with an opening chapter on the definition of MISS and introduction of these principles. Fifty-six subsequent chapters provide a comprehensive discussion on how to utilize an MISS approach for a full spectrum of spinal pathologies using nuanced variations specific to the operating surgeon. To ensure readers are well versed in all aspects of MISS, these chapters include painstaking details on indications, contraindications, pathoanatomy, operating room set-up, step-by-step techniques, and postoperative management. Key Highlights Contributions from master spine surgeons across the world provide a balanced global perspective on mastering and incorporating diverse techniques into practice Invaluable clinical pearls including tips/tricks and complication avoidance High-quality images, figures, anatomic drawings, and imaging studies illustrate relevant anatomic approaches and corridors and delineate why anatomic mastery is critical to MISS Twenty-five videos enhance the ability to learn and implement MISS approaches This is a must-have resource for practicing spine surgeons interested in MISS who wish to learn the latest techniques from master surgeons and achieve optimal patient outcomes. The text and videos also provide a robust training tool for senior-level orthopaedic and neurosurgery residents and spine fellows. *Manual of Spine Surgery* Cambridge Scholars Publishing Endoscopic spine surgery essentials from expert spine surgeons Atlas of Full-Endoscopic Spine Surgery by internationally renowned spine surgeons Christoph Hofstetter, Sebastian Ruetten, Yue Zhou, and Michael Wang provides concise, step-by-

step guidance on the latest full endoscopic spine procedures. The book is targeted at practicing spine surgeons, fellows, and residents currently not trained in endoscopic spine surgery who have the desire to learn and incorporate these techniques into clinical practice. It is also an excellent curriculum resource for cadaveric training courses taught at the national and international level. The book lays a solid foundation with opening chapters on anesthesia, OR setup and endoscopic tools, applied anatomy, basic endoscopic surgical tasks, and preoperative diagnostics. Additional sections include step-by-step descriptions of the full spectrum of cervical, thoracic, and lumbar endoscopic approaches. The last section provides invaluable pearls on overcoming challenges, avoiding pitfalls, and optimizing postoperative care. Key Features Transforaminal endoscopic lumbar and thoracic discectomy approaches Trans-SAP endoscopic approach for foraminal and lateral recess decompression Interlaminar endoscopic lumbar discectomy Cervical/thoracic and lumbar unilateral laminotomy for bilateral decompression Special topics including endoscopic management of challenging cases, endoscopic revision surgery, and management of complications. Neurosurgery residents, fellows, young practicing neurosurgeons, and all healthcare practitioners involved in the care of endoscopic spine surgery patients will gain invaluable insights from this book.

**Endoscopic Spine Surgery** Springer Science & Business Media Annotation Written by three psychologists and one orthopedic spine surgeon, this book demonstrates that surgery to relieve chronic back pain can be greatly augmented by the inclusion of psychological components in the assessment and preparation of patients for spine surgery, as well as in post-operative rehabilitation. It offers specific techniques for screening out patients who will not benefit from surgery, preparing patients to undergo surgery, and improving rehabilitation outcomes. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com).

*AO Spine Textbook* Springer

Patients and families coping with scoliosis and other spinal deformities are increasingly seeking better solutions for care and management. The recent worldwide expansion of the Schroth method, an exercise rehabilitation treatment originating in Germany, and its new advancements in compatible bracing have

led to the need for an overview of evidence-based treatment principles. This comprehensive textbook is the first of its kind from the Schroth Best Practice Academy, an international group of highly esteemed and experienced scoliosis practitioners and researchers. A collaborative body of work, it focuses on the most common spinal deformities and provides current methods of non-surgical treatment. It highlights cutting-edge treatment options often disregarded by mainstream medicine, and will serve to guide and enhance the knowledge of conservative treatment practitioners desiring to help patients improve treatment outcomes and quality of life.

**The Textbook of Spinal Surgery** Thieme

A comprehensive resource written by and for anaesthesiologists, physiatrists, neurologists, interventional radiologists, interventional pain specialists, orthopaedic surgeons, neurosurgeons and therapists treating painful spinal disorders globally. The book describes basic principles that must be understood before patients with spinal pain can be treated and procedures are clearly explained. Practice-proven diagnostic and therapeutic algorithms are given for all conditions. Detailed protocols are given for what to do in different scenarios and, most importantly, what to do next. Surgical treatment is covered only to the extent useful to the non-surgeon.

*Textbook of Surgery* Springer Science & Business Media

This practical, step-wise text covers the surgical approaches, resection strategies and reconstruction techniques used for each type of presenting tumor of the spine. Demonstrating the variety of anterior, posterior and intradural approaches and stabilization techniques, and spanning from pathologies of the craniocervical region to sacral and intradural pathologies, each chapter is generously illustrated with figures, radiographs and intraoperative photos. The chapters themselves follow a consistent and user-friendly format: the anatomy and biomechanics of a specific region, patient evaluation, essential oncologic principles, the decision-making process, and technical steps of surgery. A representative case illustration is provided at the conclusion of each chapter, exemplifying pertinent concepts described. Additionally, video segments accompany selected chapters, providing real-time illustration of surgical techniques. Technical and in-depth, yet highly accessible, *Spinal Tumor Surgery: A Case-Based Approach* is an essential resource for orthopedic

spine surgeons, neurosurgeons, and surgical oncologists operating on tumors of the spine.

**Orthopaedic Surgery Essentials: Spine** Amer Psychological Assn

This book covers the content of European postgraduate spine surgery courses, using a case-based approach. It describes a stepwise solution to a real-world clinical problem and compares this with the best available evidence. It then provides suggestions on how to bridge the gap (if there is one) between standard of care and evidence-based medicine. *Spine Surgery: A Case-Based Approach* is aimed at postgraduate students of spine surgery (both trainee neurosurgeons and trainee orthopedic surgeons), and is also of interest to medical students.

*Biomechanics of the Spine* Springer

Founded by four Swiss surgeons in 1958, AO Spine is a premier knowledge provider in spine surgery and at the forefront of education and research. Endorsed by AO Spine, this book is a comprehensive guide to the management of spinal disorders. Beginning with a general overview of the spine and its physiology and biomechanics, the next section extensively covers the paediatric spine and associated disorders. The following sections discuss conditions found in the different anatomical sections of the spine - cervical, thoracic and lumbosacral - and their history, physical examination, diagnosis and surgical and non-operative management techniques. The final part of the book explores future trends in spine surgery. Authored by leading US-based neuro and orthopaedic surgeons, this textbook is highly illustrated with more than 650 surgical images, diagrams and tables. Key points Comprehensive guide to surgical and non-operative management of spinal disorders Endorsed by AO Spine committee Covers diagnosis and treatment of numerous conditions in each section of the spine Highly experienced and renowned, US-based author team

*Textbook of the Cervical Spine E-Book* Thieme

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.

**Handbook of Spine Surgery** John Wiley & Sons

The authors' operative experience and the fundamentals of anatomy formed the basis for creation of this atlas. The practice-oriented description of the various operative techniques takes account of the principal indications for surgery, and of possible dangers and complications. The atlas is a valuable aid for the surgeon's training. Experienced surgeons are given the

opportunity of gaining in a short time an overview of operative techniques that are not part of a routine, day-to-day repertoire.

Revision Lumbar Spine Surgery E-Book Springer Science & Business Media

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.

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