

## Principles Of Neurosurgery Setti Rengachary

Rev. ed. of: Principles of neurosurgery / edited by Setti S. Rengachary, Richard G. Ellenbogen. 2nd ed. 2005.

The future of neurosurgery will be characterized by less invasive, molecular technologies that promise to revolutionize the field of neurosurgery and impact the treatment of additional neurological disorders, including neurometabolic diseases, stroke, dementias, affective and psychiatric diseases, movement disorders, epilepsy, and others. This book encompasses developing an understanding of the principles underlying the advent of novel molecular approaches to neurological and neurosurgical diseases. It identifies key principles that will allow dramatic improvement in the treatment and outcomes of patients suffering from a variety of disorders affecting the central nervous system and spinal axis. This volume gives neurosurgeons an excellent understanding of the development of novel molecular and cellular technologies that will markedly change the way neurosurgery is practiced in the near future. It is also of special interest to neurologists, psychiatrists, physiatrists, spinal orthopaedic surgeons, neurobiologists and gene therapy research scientists.

A compact, readable and highly-authoritative source of critical neurosurgical information, Neurosurgery has been produced with the participation of some of the world's leading neurosurgeons and neuroclinicians and is based on the curriculum of British, European and North American neurosurgical training programs. The book is extensively illustrated with hundreds of figures demonstrating the imaging features of all major neurosurgical pathologies, including diagrams explaining key anatomical and surgical concepts, and images showing the features of common brain tumours. There are key references at the end of each chapter and critical commentary of neurosurgical literature is also included. The handbook concisely covers all aspects of adult and paediatric neurosurgery. It is systematically and clearly broken down into easy-to-follow sections such as introductory basic concepts, definitions, epidemiology, pathology, clinical and neuroradiological characteristics, clinical management and decision making. Additional sections on operative treatment include the key critical surgical anatomy, and clear, step-by-step descriptions of common surgical techniques. Widely accepted practice guidelines, major classification schemes and common scales are clearly presented and explained.

Comprehensive coverage of the latest techniques in functional neurosurgery Part of the second edition of the classic Neurosurgical Operative Atlas series, Functional Neurosurgery provides step-by-step guidance on the innovative and established techniques for managing epilepsy, pain, and movement disorders. This atlas covers the current surgical procedures, providing concise descriptions of indications and surgical approaches, as well as recommendations for how to avoid and manage postoperative complications. The authors describe the underlying physiological principles and state-of-the-art recording techniques that

are used for brain localization. This edition addresses topics that are rarely covered in other texts, including motor cortex stimulation for neuropathic pain, novel technical approaches for insertion of deep brain stimulator electrodes, and radiosurgery for movement disorders. Highlights: New chapters on the evolving indications for deep brain stimulation, frameless neuronavigation techniques, and interventional MRI-guided treatments More than 650 high-quality images demonstrating anatomy and surgical steps Consistent format in all chapters to enhance ease of use Ideal for neurosurgeons and residents, this operative atlas is a practical surgical guide that will serve as both a reference and a refresher prior to performing a specific procedure. Series description The American Association of Neurological Surgeons and Thieme have collaborated to produce the second edition of the acclaimed Neurosurgical Operative Atlas series. Edited by leading experts in the field, the series covers the entire spectrum of neurosurgery in five volumes. In addition to Functional Neurosurgery, the series also features: Neuro-Oncology, edited by Behnam Badie Spine and Peripheral Nerves, edited by Christopher Wolfla and Daniel K. Resnick Pediatric Neurosurgery, edited by James Tait Goodrich Vascular Neurosurgery, edited by R. Loch Macdonald

Get step-by-step, expert guidance on fundamental procedures in neurosurgery. Core Techniques in Operative Neurosurgery, 2nd Edition, provides the tools needed to hone existing surgical skills and learn new techniques, helping you minimize risk and achieve optimal outcomes for every procedure. Led by Dr. Rahul Jandial, this concise reference offers quick access to the expertise and experience of the world's leading authorities in the field of neurosurgery. Presents consistent, easy-to-follow chapters that cover the indications and contraindications, pitfalls, tips and tricks from the experts, and more for each procedure. Covers minimally invasive spine techniques such as Thoracic Corpectomy and Minimally Invasive Direct Lateral Transpsoas Interbody Fusion. Includes new chapters on Microvascular Decompression and Brachial Plexus Injury Nerve Grafting and Transfers.

Principles of Neurosurgery, by Drs. Richard G. Ellenbogen, Saleem I. Abdulrauf and Laligam N Sekhar, provides a broad overview of neurosurgery ideal for anyone considering or training in this specialty. From general principles to specific techniques, it equips you with the perspectives and skills you need to succeed. Comprehensive without being encyclopedic, this new edition familiarizes you with the latest advances in the field—neuroimaging, the medical and surgical treatment of epilepsy, minimally invasive techniques, and new techniques in position and incisions—and shows you how to perform key procedures via an online library of surgical videos at [www.expertconsult.com](http://www.expertconsult.com). No other source does such an effective job of preparing you for this challenging field! Get comprehensive coverage of neurosurgery, including pre- and post- operative patient care, neuroradiology, pediatric neurosurgery, neurovascular surgery, trauma surgery, spine surgery, oncology, pituitary adenomas, cranial base

neurosurgery, image-guided neurosurgery, treatment of pain, epilepsy surgery, and much more. Gain a clear visual understanding from over 1,200 outstanding illustrations—half in full color—including many superb clinical and operative photographs, surgical line drawings, and at-a-glance tables. Apply best practices in neuroimaging techniques, minimally invasive surgery, epilepsy surgery, and pediatric neurosurgery. Master key procedures by watching experts perform them in a video library online at [www.expertconsult.com](http://www.expertconsult.com), where you can also access the fully searchable text, an image gallery, and links to PubMed. Keep up with recent advances in neurosurgery with fully revised content covering neuroimaging, the medical and surgical treatment of epilepsy, minimally invasive techniques, new techniques in position and incisions, deep brain stimulation, cerebral revascularization, and treatment strategies for traumatic brain injury in soldiers. Apply the latest guidance from new chapters on Cerebral Revascularization, Principles of Modern Neuroimaging, Principles of Operative Positioning, Pediatric Stroke and Moya-Moya, Anomalies of Craniovertebral Junction, and Degenerative Spine Disease. Tap into truly global perspectives with an international team of contributors led by Drs. Richard G. Ellenbogen and Saleem I. Abdulrauf. Find information quickly and easily thanks to a full-color layout and numerous detailed illustrations.

As a result of technological improvements, neuroendoscopy is now used in the treatment of many more patients, enabling the performance of previously unavailable operations with low complication rates and rapid patient recovery. This book presents the distilled experience of world experts in this evolving field. Current applications in a wide variety of settings are explained in detail and likely future developments are identified. In addition, the available neuroendoscopic instruments are reviewed and the results of international trials and collaborative studies, presented. This book will fully acquaint the reader with the breadth and depth of available neuroendoscopy techniques and their impressive therapeutic potential. It should serve as the reference book on neuroendoscopy for the next 10 years.

This long-awaited second edition has been thoroughly updated and revised by Dr. Michael Salzman with the assistance of Edward R. Laws, MD, Roberto Heros, MD, and Volker Sonntag, MD, yet still preserves the user-friendly aspects of the original book: brevity and ease of practical application in the operating room environment.

Suitable for use on the ward and in clinical settings, this book includes information and clinical guidance passed down by generations of neurologists. It deals with taking a neurological history and examination, including the skills necessary to make a neurological assessment.

Covers all aspects of CTS: diagnosis - management - outcome assessment Abundantly illustrated

Written by leading experts in the field, this book offers neurosurgeons instruction in a full range of procedures based on the keyhole concept. The book uses 25 operative cases—all illustrated in precise detail—to show how keyhole techniques can be applied in a wide variety of clinical situations.

The quintessential guide providing a one-stop roadmap to a neurosurgical career!

Neurological surgery is a complex, highly selective specialty. For medical students and

residents, navigating a huge array of neurosurgical information can be overwhelming. *Neurosurgery Fundamentals* by Nitin Agarwal is a portable reference enabling swift assimilation of neurosurgical care essentials. The book starts with a roadmap to a career in neurosurgery. It concludes with *Advice from the Masters*, featuring invaluable resources and insights from prominent neurosurgeons. Comprehensive technical overviews are provided on the neurological exam, neuroanatomy, neuroradiology, neurocritical care, traumatic brain and spinal cord injury, degenerative and deformity spine, neurovascular surgery, neurosurgical oncology, pediatric neurosurgery, functional neurosurgery, stereotactic radiosurgery, neurological infectious diseases, and interdisciplinary care. Socioeconomic topics include training, licensure, credentialing, and advocacy. Key Features Fundamental diseases, tests, and operative approaches are summarized. Top Hits feature the most salient questions, aiding in retention of knowledge. High-yield resources are highlighted to augment reader identification. Neurosurgical Pearls offer advice from the masters relevant to each chapter. High-quality illustrations, photographs, and radiographs enrich understanding. Aspiring neurosurgical providers will benefit from the easy-to-digest wealth of information in this concise, yet comprehensive guide.

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

Children represent a special challenge for emergency care providers, because they have unique medical needs in comparison to adults. For decades, policy makers and providers have recognized the special needs of children, but the system has been slow to develop an adequate response to their needs. This is in part due to inadequacies within the broader emergency care system. *Emergency Care for Children* examines the challenges associated with the provision of emergency services to children and families and evaluates progress since the publication of the Institute of Medicine report *Emergency Medical Services for Children* (1993), the first comprehensive look at pediatric emergency care in the United States. This new book offers an analysis of:

- The role of pediatric emergency services as an integrated component of the overall health system.
- System-wide pediatric emergency care planning, preparedness, coordination,

and funding. • Pediatric training in professional education. • Research in pediatric emergency care. Emergency Care for Children is one of three books in the Future of Emergency Care series. This book will be of particular interest to emergency health care providers, professional organizations, and policy makers looking to address the pediatric deficiencies within their emergency care systems.

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.

... A rare and uplifting vision of the biological future we can and should create for ourselves.-Dr. Gregory Fahy, Chief Scientific Officer, Vice President of 21st Century MedicineThe debate about the ethics of human biotechnology or genetic engineering is one of the most important cultural issues of our time.

Transhumanism is the philosophy that most of all supports genetic science and biotechnology, yet the public knows little about this emerging philosophy.

Transhumanism declares unequivocal support for the attempt to eliminate disease, defeat death, and enhance the body and mind beyond the limitations of the age-old human condition. In *Designer Evolution* Simon Young presents a polemical espousal of transhumanist philosophy and a trenchant attack on its critics, the Bio-Luddites. The author calls for a rejection of premodern superstition and postmodern nihilism in favor of a renewed belief in human progress through scientific rationality. In an age when cynicism, fatalism, and nihilism are rife, *Designer Evolution* will rekindle a feeling of optimism about the future of our species. This is a concise, reader-friendly introduction to a vitally important philosophy that will become difficult to ignore as advances in biotechnology increasingly claim the headlines in the coming decades. Simon Young (Brighton, East Sussex, UK), the son of pioneering cybernetician and science writer J. F. Young, is an accomplished pianist who has performed throughout Europe. 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*

The articles in *The Encyclopedia of Medical Devices and Instrumentation* focus on what is currently useful or is likely to be useful in future medicine. They answer the question, What are the branches of medicine and how does technology assist each of them? Articles focus on the practice of medicine that is assisted by devices, rather than including, for example, the use of drugs to treat disease. The title is the only resource on the market dealing with the subject in encyclopedic detail. \* Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians \* Articles cover the latest developments such as nanotechnology, fiber optics, and signal processing

Neurology – as only Harrison's can cover it Featuring a superb compilation of chapters related to neurology that appear in Harrison's Principles of Internal Medicine, Eighteenth Edition, this concise, full-color clinical companion delivers the latest knowledge in the field backed by the scientific rigor and authority that have defined Harrison's. You will find content from renowned editors and contributors in a carry-anywhere presentation that is ideal for the classroom, clinic, ward, or exam/certification preparation. Features Current, complete coverage of clinically important topics in neurology, including Clinical Manifestations of Neurologic Diseases, Diseases of the Nervous System, Chronic Fatigue Syndrome, Psychiatric Disorders, and Alcoholism and Drug Dependency NEW CHAPTERS discuss the pathogenesis and treatment and syncope; dizziness and vertigo; peripheral neuropathy; neuropsychiatric problems among war veterans; and advances in deciphering the pathogenesis of common psychiatric disorders Integration of pathophysiology with clinical management 118 high-yield questions and answers drawn from Harrison's Principles of Internal Medicine Self-Assessment and Board Review, 18e Content updates and new developments since the publication of Harrison's Principles of

Internal Medicine, 18e 58 chapters written by physicians who are recognized experts in the field of clinical neurology Helpful appendix of laboratory values of clinical importance  
“Practical Handbook of Neurosurgery” invites readers to take part in a journey through the vast field of neurosurgery, in the company of internationally renowned experts. At a time when the discipline is experiencing a (detrimental) tendency to segment into various subfields and scatter in the process, it can be worthwhile to collect a number of practical lessons gleaned from experienced and leading neurosurgeons. The book also aims to present numerous important figures in the neurosurgical community, with a brief overview of the vitae and main contributions for each. We must confess that we were sad that some of the most active members were unable to participate, likely due to time constraints. We are however fortunate that the majority were able to take part. As such, though not exhaustive, the book does represent an anthology of contemporary neurosurgeons. From the preface: At the very beginning of the project, our intention was to make a “poetbook”. But month after month it became obvious that the work would be much more expansive; ultimately we produced three volumes. Nevertheless we hope that all the three volumes together will remain easily accessible and a daily companion. The pocket has to be more like a travel bag! We would like to thank all of the contributors; they have sacrificed their valuable time to deliver sound and critical views, and above all useful guidelines.

Atlas of Neurosurgical Techniques: Brain presents the current information on how to manage diseases and disorders of the brain. Ideal as a reference for review in preparation for surgery, this atlas features succinct discussion of pathology and etiology that helps the reader gain a firm understanding of the underlying disease and conditions. The authors provide step-by-step descriptions of surgical techniques, clearly delineating the indications and contraindications, the goals, the operative preparation and anesthesia, and postoperative management. Common complications of techniques are also emphasized. Over 900 illustrations aid the rapid comprehension of the surgical procedures described in the text. Highlights: Clear descriptions of the surgical management of aneurysms, arteriovenous malformations, occlusive and hemorrhagic vascular diseases, tumors, lesions, pain disorders, trauma, infections, and more Detailed discussion of disease pathology, etiology, and differential diagnosis Concise outlines of indications, contraindications, as well as advantages and disadvantages of each technique illuminate the rationale behind surgical management More than 900 illustrations, including 684 in full-color, demonstrate key concepts Sections on the latest techniques in stereotactic and minimally invasive surgery This companion volume to Atlas of Neurosurgical Techniques: Spine and Peripheral Nerves is an essential reference for all neurosurgeons and residents seeking the current information on state-of-the-art techniques in brain surgery.

The British anti-psychiatric group, which formed around R.D. Laing, David Cooper, and Aaron Esterson in the 1960s, burned bright, but briefly, and has left a long legacy. This book follows their practical, social, and theoretical trajectory away from the structured world of institutional psychiatry and into the social chaos of the counter-culture. It explores the rapidly changing landscape of British psychiatry in the mid-Twentieth Century and the apparently structureless organisation of the part of the counter-culture that clustered around the anti-psychiatrists, including the informal power structures that it produced. The book also problematizes this trajectory, examining how the anti-psychiatrists distanced themselves from institutional psychiatry while building links with some of the most important people in post-war psychiatry and psychoanalysis. The anti-psychiatrists bridged the gap between psychiatry and the counter-culture, and briefly became legitimate voices in both. Wall argues that their synthesis of disparate discourses was one of their strengths, but also contributed to the group's collapse. The British Anti-Psychiatrists offers original historical expositions of the Villa 21 experiment and the Anti-University. Finally, it proposes a new reading of anti-psychiatric theory, displacing Laing from his central position and looking at their work as an unfolding conversation within a

social network.

Calvarial and Dural Reconstruction provides the practitioner with a synthesis of the existing broad knowledge about calvarial reconstruction -- all in a single volume. The book contains straightforward descriptions of the management of a variety of calvarial and dural defects, both congenital and traumatic. Calvarial and Dural Reconstruction includes: A review of the colorful history of calvarial reconstruction Comprehensive coverage of the newer cranioplasty materials used in calvarial procedures Illustrations and text describing reconstruction complex procedures, including the frontal sinus fracture, the floor of the anterior cranial fossa, and posttraumatic and post-operative skull defects In-depth discussion of various forms of synostosis, including indications, risks and complications (Distributed by Thieme for the American Association of Neurological Surgeons)

The highly complex specialty of brainstem surgery requires many years of study, a focus on precision, and a passionate dedication to excellence to prepare the neurosurgeon for navigating significant anatomic challenges. Although the brainstem is technically surgically accessible, its highly eloquent structure demands rigorous surgical decision-making. An in-depth understanding of brainstem and thalamic anatomy and the safe entry zones used to access critical areas of the brainstem is essential to traversing the brainstem safely and successfully. This remarkable, one-of-a-kind atlas draws on the senior author's decades of experience performing more than 1,000 surgeries on the brainstem, thalamus, basal ganglia, and surrounding areas. Its content is organized by anatomic region, enabling readers to study separate subdivisions of the brainstem, each of which has its own unique anatomic and surgical considerations. From cover to cover, the atlas provides readers with technical guidance on approach selection, the timing of surgery, and optimization of outcomes--elucidated by more than 1700 remarkable color illustrations, dissections, clinical images, and line drawings. Key Highlights Beautifully detailed, highly sophisticated brain slices and dissections by Kaan Yagmurlu, who trained under the internationally renowned neuroanatomist and neurosurgeon Albert Rhoton Jr. Color illustrations clearly labeled with callouts and other indicators of foci of interest delineate multiple safe entry zones to the brainstem More than 50 detailed patient cases highlight each patient's history of previous neurological disorders, presenting symptoms, preoperative imaging, diagnosis, the planned surgical approach, patient positioning, intraoperative and postoperative imaging, and outcome Seven animations and more than 50 surgical videos elucidate approach selection, anatomy, and surgical outcomes of thalamic region and brainstem lesions This illuminating atlas provides insights into the complexities of the hallowed halls of the brainstem. Neurosurgeons and neurosurgical residents alike who glean knowledge from the clinical pearls throughout each section will no doubt become more adept surgeons, to the ultimate benefit of their patients.

A collection of core procedures for the spine surgeon... Neurosurgery Tricks of the Trade: Spine and Peripheral Nerves presents core surgical procedures in a concise, highly didactic format, enabling surgeons to quickly grasp their essence from the bulleted text and superb illustrations that accompany them. Expert neurosurgeons specializing in the spine and peripheral nerves describe how they perform common procedures and offer surgical tips and pearls. Key Features: Distills a wealth of information in a concise, step-by-step format, making it easy for neurosurgeons and other spine specialists to review how procedures are performed Includes more than 100 procedures focusing on the spine and peripheral nerves, each accompanied by high-quality, original illustrations Presents all procedures using a consistent outline and covers topics in either a pathology-based or an approach-based manner Surgeons at all levels, from

residents learning procedures to experienced practitioners needing a quick refresher, will find this book and its companion volume, *Neurosurgery Tricks of the Trade: Cranial*, to be invaluable resources throughout their surgical careers. This book has been developed from Thieme eNeurosurgery, the world's most comprehensive neurosurgical resource online. For a free trial, go to: <http://thieme.com/eneurotrial>

Provides a broad overview of neurosurgery to house officers in the clinical neurosciences. Covers all core areas within neurosurgery and includes numerous colour illustrations.

Perfect for anyone considering or training in this challenging specialty, *Principles of Neurological Surgery, 4th Edition*, by Drs. Richard G. Ellenbogen, Laligam N. Sekhar, and Neil Kitchen, provides a clear, superbly illustrated introduction to all aspects of neurosurgery—from general principles to specific techniques. Thorough updates from leading authors ensure that you'll stay abreast of the latest advances in every area of neurosurgery, including pre- and post-operative patient care, neuroradiology, pediatric neurosurgery, neurovascular surgery, trauma surgery, spine surgery, oncology, pituitary adenomas, cranial base neurosurgery, image-guided neurosurgery, treatment of pain, epilepsy surgery, and much more. A pioneering neuroscientist argues that we are more than our brains. To many, the brain is the seat of personal identity and autonomy. But the way we talk about the brain is often rooted more in mystical conceptions of the soul than in scientific fact. This blinds us to the physical realities of mental function. We ignore bodily influences on our psychology, from chemicals in the blood to bacteria in the gut, and overlook the ways that the environment affects our behavior, via factors varying from subconscious sights and sounds to the weather. As a result, we alternately overestimate our capacity for free will or equate brains to inorganic machines like computers. But a brain is neither a soul nor an electrical network: it is a bodily organ, and it cannot be separated from its surroundings. Our selves aren't just inside our heads—they're spread throughout our bodies and beyond. Only once we come to terms with this can we grasp the true nature of our humanity.

*Clinical Neurosurgery* is the official compendium of the platform presentations at the CNS Annual Meeting. Now in a peer-reviewed format, *Clinical Neurosurgery* serves not only to summarize the proceedings of the Annual Meeting for all members, but also to advance scientific exchange beyond the confines of the meeting.

A must-have...[a] low-cost, highly portable, and extremely useful reference volume, which will undoubtedly enjoy continued longevity into the foreseeable future.--*Journal of Neurosurgery*A vital resource...For rapid access to the diagnosis and management of all neurosurgical things, there is no substitute.--*The Journal of TRAUMA Injury, Infection, and Critical Care*For two decades, *Handbook of Neurosurgery* -- now in a fully updated seventh edition -- has been an invaluable companion for every neurosurgery resident and nurse, as

well as neurologists and others involved in the care of patients with brain and spine disorders. Dr. Greenberg's classic text covers the breadth of neurosurgery and its allied specialties and provides the latest information on anatomy and physiology, differential diagnosis, and currently accepted principles of clinical management. Renowned for its scope and accessibility, this portable, single-volume guide is packed with more than 1,300 pages of practical information, including thousands of literature citations, handy cross-references, and a thorough index. Features: New to the seventh edition: detailed coverage of blunt cervical arterial injuries; awake craniotomies; brain mapping; new grading systems for cervical and thoracolumbar fractures; radiation safety for neurosurgeons; organ donation after cardiac death; and expanded discussion of endovascular techniques Numerous updates, including information on dural arteriovenous malformations; tumors and molecular biology; and new neuromonitoring modalities such as brain oxygen tension, cerebral microdialysis, and regional cerebral blood flow The return of basic surgical material to acquaint readers with the operating room A practical new feature called Booking the Case supplies helpful information about scheduling surgery and obtaining informed consent Highly valuable section on hot topics in neurocritical care Color highlights and full-color inserts to enhance readability Comprehensive and conveniently compact, this book is a must-have reference for neurosurgery residents and a useful tool for anyone working in the clinical neurosciences.

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