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Praise for the previous  
edition:An excellent review for

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the written neurosurgical  
boards...recommended to all  
neurosurgery  
residents.--Journal of  
NeurosurgeryThe second  
edition of Comprehensive  
Neurosurgery Board Review

## Read Online Handbook Neurosurgery Greenberg

contains all the information you need to prepare for the American Board of Neurological Surgery (ABNS) written examination. Authored by a team of expert clinicians and neurosurgery trainees

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who earned top scores on their exams, this edition distills the current knowledge of the neurosciences and essential information for clinical practice. Six chapters provide comprehensive coverage of

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core concepts in anatomy, physiology, pathology, radiology, neurology, neurosurgery, and critical care. Features of the second edition: Concise descriptions aid rapid review of key

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concepts Bullet-point format  
enhances ease of use and  
facilitates comprehension Up-  
to-date coverage of classic  
symptoms and signs of  
common neurosurgical  
diseases Current information

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related to the genetic basis of  
neurosurgical conditions 450  
high-quality illustrations and  
images typical of those  
appearing on exams This  
superb review is an  
indispensable resource for

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neurosurgical residents preparing for the ABNS certification exam. It is also ideal for clinicians seeking a refresher or for those preparing for recertification exams.



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The past two decades have seen unparalleled developments in our knowledge of the brain and mind. However, these advances have forced us to confront head-on some

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significant ethical issues regarding our application of this information in the real world- whether using brain images to establish guilt within a court of law, or developing drugs to enhance

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cognition. Historically, any consideration of the ethical, legal, and social implications of emerging technologies in science and medicine has lagged behind the discovery of the technology itself. These

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delays have caused problems in the acceptability and potential applications of biomedical advances and posed significant problems for the scientific community and the public alike - for example

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in the case of genetic screening and human cloning. The field of Neuroethics aims to proactively anticipate ethical, legal and social issues at the intersection of neuroscience and ethics,

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raising questions about what the brain tells us about ourselves, whether the information is what people want or ought to know, and how best to communicate it. A landmark in the academic

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literature, the Oxford Handbook of Neuroethics presents a pioneering review of a topic central to the sciences and humanities. It presents a range of chapters considering key issues,

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discussion, and debate at the intersection of brain and ethics. The handbook contains more than 50 chapters by leaders from around the world and a broad range of sectors of academia and clinical practice



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spanning the neurosciences, medical sciences and humanities and law. The book focuses on and provides a platform for dialogue of what neuroscience can do, what we might expect neuroscience will

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do, and what neuroscience ought to do. The major themes include: consciousness and intention; responsibility and determinism; mind and body; neurotechnology; ageing and dementia; law and public

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policy; and science, society and international perspectives. Tackling some of the most significant ethical issues that face us now and will continue to do so over the coming decades, The Oxford

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Handbook of Neuroethics will be an essential resource for the field of neuroethics for graduate students and postdoctoral fellows, basic scientists in the neurosciences and psychology, scholars in

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humanities and law, as well as physicians practising in the areas of primary care in neurological medicine.

Ideal for both neurosurgical residents and recertifying neurosurgeons, Neurosurgery

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Self-Assessment: Questions and Answers offers the most comprehensive, up to date coverage available. Over 1,000 clinically relevant multiple-choice questions across 46 topic areas test the

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candidate's knowledge of basic neuroscience and neurosurgical subspecialties to an unparalleled degree and provide detailed answer explanations to facilitate learning and assessment. Over

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700 histology, pathology, radiology, clinical and anatomical images serve as an index of routinely tested-on images in neurosurgical examinations with high-yield summaries of each pathology



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to reinforce and simplify key concepts. Includes only multiple choice questions in both single-best-answer and extended matching item (10-20 options) format increasingly adopted by neurosurgery

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certification boards worldwide. Questions are organized by topic and classified by degree of difficulty through a highly visual "traffic light system" which codes each question in green, amber, or red. Includes

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coverage of the landmark studies in areas such as vascular, stroke, spine and neurooncology. Practical tips facilitate study with test-taking strategies and things to consider before sitting for an

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exam. Utilizes Imperial and SI units throughout.

THE DEFINING WORK IN  
NEUROSURGERY, REISSUED  
FOR A NEW GENERATION OF  
TECHNICAL EXCELLENCE  
Cranial Anatomy and Surgical

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Approaches is the master work of the legendary neurosurgeon Albert L. Rhoton, Jr. -- a distillation of 40 years of work to improve safety, accuracy, and gentleness in the medical specialty the author helped

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shape. Newly reissued and featuring more than 2000 full-color illustrations, this definitive text on the microsurgical anatomy of the brain remains an essential tool for the education and

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enrichment of neurosurgeons at any career stage. It fulfills its author's hopes to make, in his words, the "delicate, fateful, and awesome" procedures of neurosurgery more gentle, accurate, and

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safe. Across three sections, Cranial Anatomy and Surgical Approaches details the safest approaches to brain surgery, including:

- Micro-operative techniques and instrument selection
- Microsurgical



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anatomy and approaches to the supratentorial area and anterior cranial base, including chapters on aneurysms, the lateral and third ventricles, cavernous sinus and sella. · Anatomy and

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approaches to the posterior  
cranial fossa and posterior  
cranial base, including  
chapters on the fourth  
ventricle, tentorial incisura,  
foramen magnum, temporal  
bone, and jugular foramen ·

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Supra- and infratentorial  
areas, including chapters on  
the cerebrum and cerebellum  
and their arteries and veins  
Principles of Neurosurgery  
Nerve Conduction,  
Electromyography, Evoked

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practice.

Handbook of Spine Surgery, Second Edition, is a completely updated and comprehensive reference that distills the basic principles of contemporary spine surgery. Its coverage of both

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principles and techniques makes it an excellent refresher before surgery or a valuable daily companion for residents and surgeons caring for patients with spinal disorders. Key Features of the Second Edition: New chapters

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on adult degenerative deformity,  
pediatric scoliosis and  
radiographic principles of  
deformity Expanded spinal trauma  
section now includes separate  
chapters on cervical,  
thoracolumbar, and sacropelvic



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injuries Common clinical questions (with answers) at the end of each chapter highlight topics frequently encountered in the operating room and on board exams Easy-to-read bulleted format The second edition of this handbook is the go-

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The quintessential guide providing a one-stop roadmap to a neurosurgical career! Neurological surgery is a complex, highly selective specialty. For medical

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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

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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

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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

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neurosurgery, functional  
neurosurgery, stereotactic  
radiosurgery, neurological  
infectious diseases, and  
interdisciplinary care.

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training, licensure, credentialing,

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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

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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



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benefit from the easy-to-digest wealth of information in this concise, yet comprehensive guide. This book is a comprehensive guide to neurosurgery for postgraduate trainees. It compiles the information in Textbook of

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Neurosurgery, Third Edition, Three Volume Set (also authored by Prakash Narain Tandon and Ravi Ramamurthi), into one single volume. Divided into seventeen sections, the book covers all the key topics in neurosurgery –

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diagnostics, congenital malformations, head and spinal injuries, infections, vascular disorders, tumours and much more. Sub-sections within each topic discuss different associated disorders. Neurosurgical

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techniques for epilepsy and cerebral palsy are also described. With an extensive and expert author and editor team, this useful manual includes nearly 300 images, illustrations and tables to enhance learning. Key points

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neurosurgery for postgraduates  
Compiles information from  
authors ' previous three volume  
set into one volume Covers  
numerous neurosurgical  
techniques Includes nearly 300

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images, illustrations and tables  
When the Air Hits Your Brain: Tales  
from Neurosurgery  
Handbook of Pediatric  
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Book

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## Spinal Neurosurgery Tarascon Neurosurgery Pocketbook

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Compression Fractures, and Disorders Affecting the Spinal Cord and Nerve Roots. See a clearer picture of what you encounter in practice through larger, detailed images and illustrations. Find information quickly and easily with additional color that enhances tables, legends, key points, and websites.

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neurosurgical examinations around the world. Written by neurosurgeons, this book is a hands-on guide that translates basic science and theories of neurosurgery into clinical practice. This comprehensive resource takes a standardized and logical approach to the clinical neurosurgical examination. Based on the authors' own

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clinical practice, teaching and examination experiences, this book provides candidates with a firm grasp of neuroscience and the ability to solve problems under pressure. Scenario- and patient-based, the book covers history-taking, clinical examination, differential diagnosis, investigations, management, treatment

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options and potential complications. The text is based on the Royal College of Surgeons of England and U.S. board syllabuses. In addition to serving as a reliable preparation resource for the neurosurgical examination, it will also be invaluable in your future surgical practice. The third edition of Psychiatric Care of the



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Medical Patient brings a classic reference text into the twenty-first century. It combines critical scholarship with the voice of expert clinicians who work at the interface of psychiatry with medical specialties. It is meant to be read for pleasure as well as consulted as a reference. The editors have worked with

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the authors to bring a consistent perspective to the book - one that sees the medical psychiatrist as an agent for bringing a more comprehensive perspective to medical care. Even seasoned and knowledgeable practitioners will find much that is new to them in this book. The volume covers topics in depth

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that other books in the field may not cover at all, such as the use of herbal and nutritional therapies for medical-psychiatric symptoms and syndromes, and the choice of questionnaires to supplement history-taking. It looks at old topics in a new way: The chapter on the physical examination applies psychometric

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considerations to the Babinski sign, describes the method and application of quantitative bedside olfactory testing, and discusses smartphone apps to improve the sensitivity of the examination. *Psychiatric Care of the Medical Patient, 3rd Edition* provides concepts and information to facilitate the dialogue between

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psychiatrists and general medical specialists - minimizing psychiatric jargon and speaking in the common language of caring and curious physicians.

This practical handbook allows nurses, advanced practice nurses, physician assistants, and allied health professionals practicing in the fields of neurosurgery,

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neurology, and spinal care to quickly review essentials while in the work environment. It emphasizes procedural steps and critical elements in patient management, including intensive care, the neurological examination, differential diagnoses, and pain management. Written by a multidisciplinary team of experts, the

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handbook is expected to become a well-worn companion and essential aid to the busy practitioner.

Neurosurgery Fundamentals

Clinical Neurophysiology

Snell's Clinical Neuroanatomy

Oxford Textbook of Cognitive Neurology  
and Dementia

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Synopsis of Spine Surgery

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



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***illustrations.***

***Until recently, it was thought that the adult brain is modifiable only during early stages of ontogenesis.***

***However, neurophysiological and neuroimaging studies now***

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***indicate that the mature human brain is, under certain conditions, capable of substantial neuroplastic changes. Neuroplasticity reflects the ability of the human brain to alter the***

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***pattern of neural activation in response to previous experience, and recent findings indicate that the effects of experience can lead to both structural as well as functional reorganization. It***

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***has been shown that  
pathological neuroplastic  
changes can be  
reverted/normalized and that  
the modulation of the  
neuroplastic changes can be  
paralleled by improvement of***

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***the patient's status. However, there is a gap between the potential of neuromodulation, technical progress and actual preparedness of medical personnel to provide this type of treatment. A prevalent***

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***opinion among medical professionals indicates that training programs and educational materials in neuromodulatory techniques are well needed and appreciated. Neuromodulation***

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***will focus on the description and discussion of methods currently available for invasive and non-invasive neuromodulation, their clinical potential, significance and practical applications. In order***

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***to facilitate understanding of the topic, the initial part of the textbook will review neurophysiological systems involved in neuromodulation and will provide readers with basic principles of***



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***neuroplasticity that constitutes the rationale for neuromodulation in human medicine. Additionally, the clinical use of these techniques will be described with special regard to safety***

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***and avoidance of  
complications.***

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neurosurgical handbook for  
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***concepts, tables, practice  
guidelines, signs/symptoms,  
and "booking the case"  
highlight and clarify salient  
points Thousands of well-  
organized cross references,  
index entries, and literature***



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***citations provide additional  
study sources Significant  
revisions to the tumor section  
reflect a wealth of up-to-date  
information including  
treatments, guidelines,  
sources, and more The***

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***addition of new figures  
enhances understanding of  
diseases As with prior  
editions, this must-have daily  
reference book does a  
magnificent job making  
essential neurosurgical***

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neurologists, neurosurgeons  
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comprehensive pocket***

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***pocket reference guide covers  
an array of neurosurgery  
topics including brain tumors.  
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of this kind incorporates  
neurosurgery, neurology and  
neuro-critical care in one***

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Principles, Methods and  
Clinical Applications***

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***Rhoton's Cranial Anatomy and  
Surgical Approaches  
Anticoagulation and  
Hemostasis in Neurosurgery  
Comprehensive Neurosurgery  
Board Review  
Neurosurgery is a rapidly***

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***developing and  
technically demanding  
branch of surgery that  
requires a detailed  
knowledge of the basic  
neuro-sciences and a  
thorough clinical***

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***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***

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***Oxford Textbooks in  
Surgery series, edited by  
Professor Sir Peter  
Morris. The book is split  
into 20 overarching  
sections (Principles of  
Neurosurgery, Neuro-***

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***oncology of Intrinsic  
Tumours; Extra-axial  
Tumours and Skull  
Lesions; Cerebro-Pontine  
Angle Tumours; Sellar  
and Supra-Sellar  
Tumours; Posterior Fossa***

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***Tumours; Pineal tumours;  
Uncommon Tumours and  
Tumour Syndromes;  
Neurotrauma and  
Intensive Care; Vascular  
Neurosurgery; Principles  
of Spinal Surgery; Spinal***

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***Pathology; Spinal  
Trauma; Peripheral Nerve  
Surgery; Functional  
Neurosurgery; Epilepsy;  
Paediatric Neurosurgery;  
Neurosurgery for  
Cerebrospinal Fluid***

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***Disorders and  
Neurosurgical Infection).***  
***Each section takes a dual  
approach with, 'Generic  
Surgical Management'  
chapters that focus on  
specific clinical problems***

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***facing the neurosurgeon  
(e.g. sellar/supra-sellar  
tumour, Intradural Spina  
Tumours etc.) and  
'Pathology-Specific'  
chapters (e.g. Glioma,  
Meningeal Tumours,***

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***Scoliosis and Spinal Deformity, Aneurysm etc.). Where appropriate, this division provides the reader with easily accessible information for both clinical problems***

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***which present in a regional fashion and specific pathologies. The generic chapters cover aspects such as operative approaches, neuroanatomy and***

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***nuances. Specifically each chapter in the book incorporates several strands. Firstly the fundamental neuroscience (anatomy, pathology, genetics etc.)***

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***that underlies the clinical practice. Secondly, a review of the requisite clinical investigations (e.g. angiography, electrodiagnostics, radiology). Thirdly, a***

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***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.***

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***minimally invasive spine surgery, microsurgical treatment of aneurysms) is provided. A summary of the key papers and clinical scales relevant to neurosurgery form the***

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***concluding part. The book is a 'one-stop' text for trainees and consultants in neurosurgery, residents, those preparing for sub-specialty exams and other***

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***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***



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neurosurgeon as well as a  
trusted training resource.  
A compact, readable and  
highly-authoritative  
source of critical  
neurosurgical***

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***information,  
Neurosurgery has been  
produced with the  
participation of some of  
the world's leading  
neurosurgeons and  
neuroclinicians and is***

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***based on the curriculum  
of British, European and  
North American  
neurosurgical training  
programs. The book is  
extensively illustrated  
with hundreds of figures***

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***demonstrating the  
imaging features of all  
major neurosurgical  
pathologies, including  
diagrams explaining key  
anatomical and surgical  
concepts, and images***

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***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***

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***included. The handbook concisely covers all aspects of adult and paediatric neurosurgery. It is systematically and clearly broken down into easy-to-follow sections***

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***such as introductory  
basic concepts,  
definitions, epidemiology,  
pathology, clinical and  
neuroradiological  
characteristics, clinical  
management and decision***

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***making. Additional sections on operative treatment include the key critical surgical anatomy, and clear, step-by-step descriptions of common surgical techniques.***



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***Widely accepted practice guidelines, major classification schemes and common scales are clearly presented and explained.***

***Snell's Clinical***

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***Neuroanatomy, Eighth Edition, equips medical and health professions students with a complete, clinically oriented understanding of neuroanatomy. Organized***

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***classically by system, this revised edition reflects the latest clinical approaches to neuroanatomy structures and reinforces concepts with enhanced,***

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***illustrations, diagnostic images, and surface anatomy photographs. Each chapter begins with clear objectives and a clinical case for a practical introduction to***

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***key concepts. Throughout the text, Clinical Notes highlight important clinical considerations. Chapters end with bulleted key concepts, along with***

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***clinical problem solving  
cases and review  
questions that test  
students' comprehension  
and ensure preparation  
for clinical application.  
Enhanced color***

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***illustrations, diagrams,  
and photographs enrich  
understanding of complex  
concepts and structures.  
New bulleted key  
concepts in each chapter  
ensure a focused,***

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***clinically relevant understanding of neuroanatomy. Chapter objectives and clinical cases emphasize the practical applications of chapter content. Clinical***



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***Notes highlight important clinical considerations for quick reference and review. Clinical Problem Solving and Chapter Review Questions equip students for the clinical***

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***challenges they'll  
encounter in practice.  
The seventh edition of Dr.  
Greenbergs classic text  
covers the breadth of  
neurosurgery and its  
allied specialties and***

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***provides the latest  
information on anatomy  
and physiology,  
differential diagnosis, and  
currently accepted  
principles of clinical  
management***

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***Practical Neurology  
Neurological Surgery Q &  
A  
Target Pediatrics - Self-  
Assessment & Review  
A Companion to the 8th  
Edition***

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***The Essential Guide to  
the Oral and Clinical  
Neurosurgical Exam***

*This book is specifically designed for medical students/graduates appearing for various national and international postgraduate medical entrance exams.*

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*The main objective is to present the content in a concise and reader-friendly format. This book has a perfect mix of conceptual and factual elements along with special segments to help in easy understanding and retention.*

*?This book is an up-to-date reference*

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*on all aspects of anticoagulation and hemostasis in neurosurgery. After an opening section on basic principles and drug classes in current use, detailed consideration is given to coagulation issues relevant to all patients, not just neurosurgical ones. The coverage includes, for example,*

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*deep vein thrombosis, pulmonary embolism, and disseminated intravascular coagulation. A variety of important issues specific to neurosurgical practice are then addressed, and a summary of current guidelines and best practices is provided. By bringing together the*



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*latest knowledge from across the discipline, this book will serve as a sound basis for informed decision making in surgical practice. It will be of daily value for neurosurgeons and trainees worldwide and will also be of interest to emergency room physicians, surgeons in general,*

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*critical care physicians, neurologists,  
and hospital medicine specialists.  
Masterful 2D and 3D head, neck, and  
brain dissections provide unsurpassed  
insights into head, neck, and brain  
anatomy An internationally renowned  
and beloved author, educator, brain  
anatomist, and neurosurgeon,*

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*Professor Albert Rhoton has a special place in medical history. He was revered by students and colleagues and is regarded as one of the fathers of modern microscopic neurosurgery. A driving principle in his anatomy lab was the simple phrase, "Every Second." This was embraced in his*

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days of his presidency  
in 2017; he served for  
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