

Download Ebook Principles Of
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Surgical Management

Principles Of Posterior Fossa Surgery Surgical Management

Clinical Anesthesia in Neurosurgery, Second Edition, integrates the evolution of the field of neuroanesthesia with the major areas of neurosurgical activity to give the reader the required perspective and requisite information to help in laying the foundation for future advances as well as describing the current state of the art. The book contains 25 chapters organized into five parts.

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Part I presents studies on cerebral physiology and evaluation. Topics covered include cerebral circulation and metabolism, intraoperative neurophysiologic monitoring, and central nervous system effects of anest ...

AVM of the Brain, History, Embryology, Pathological Considerations, Hemodynamics, Diagnostic Studies, Microsurgical Anatomy

This book, written by experts from across the world, provides a comprehensive, up-to-date overview covering all aspects of posterior fossa neoplasms in pediatric patients, including medulloblastoma, ependymoma,

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cerebellar astrocytoma, atypical teratoid/rhabdoid tumor, chordoma, brain stem tumors, and rarer entities. For each tumor type, individual chapters are devoted to genetics, radiological evaluation using advanced imaging techniques, surgery, pathology, oncology, and radiation treatment. In addition, a separate section describes the various surgical approaches that may be adopted and offers guidance on the treatment of hydrocephalus and the role of intraoperative mapping and monitoring. Useful information is also provided on anatomy, clinical presentation, neurological evaluation, and molecular biology.

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The book closes by discussing in detail immediate postoperative care, the management of surgical complications, and longer-term rehabilitation and support.

Posterior fossa tumors are the most common pediatric brain tumors but are often difficult to treat owing to their proximity to critical brain structures and their tendency to cause marked intracranial hypertension. Practitioners of all levels of experience will find *Posterior Fossa Tumors in Children* to be a richly illustrated, state of the art guide to the management of these tumors that will serve as an ideal reference in clinical practice.

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This book presents the latest management techniques for pediatric neurosurgical disorders frequently encountered in clinical practice. In this edition, chapters are organized into separate sections including cerebral disorders, spinal disorders, neoplasms, trauma, cerebrovascular disease, functional disorders, and infectious disorders. Each chapter describes the diagnostic studies, pathology and pathobiology, indications for surgery, treatment alternatives, prognostic factors and outcomes. Features of the second edition: Commentaries at the end of each chapter provide insights from the senior editors Pearls

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Identify critical steps in management More than 850 high-quality images demonstrate disease pathology and surgical approaches and techniques Easy-to-read tables synthesize key clinical concepts New chapters cover ethical issues in pediatric neurosurgery, pediatric neurosurgery in developing countries, and in utero neurosurgery This comprehensive book is a must-have reference for all neurosurgeons, and specialists and residents in pediatric neurosurgery and pediatric neurology.

Endoscopic and Keyhole Cranial
Base Surgery

Principles of Neurophysiological

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Assessment, Mapping, and
Monitoring

Samii's Essentials in Neurosurgery
Principles and Practice of Pediatric
Neurosurgery

Comprehensive Management of
Arteriovenous Malformations of
the Brain and Spine

Neurosurgery

Endoscopic Sinus Surgery has progressed immensely in the last two decades. The interest in the subject and the desire to acquire proficiency in the surgical technique has led to enthusiastic attendance at numerous workshops. The introduction of motorized instruments, laser, image guided surgery etc., and the evolving

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concepts of the 'right way' to do the surgery are steps to making this procedure as functional as possible. However, the basic need of aspiring surgeons is still an accurate knowledge of the anatomy of the region, a three-dimensional concept, which will allow them to approach and clear disease from the narrow recesses of the nose and the paranasal sinuses and restore function to near normal. In this respect, this book, with its methodical approach and excellent illustrations, will be of immense value to all aspiring and established sinus surgeons.

This book provides coverage of a broad range of topics in the field of neurosurgery, 5 for residents and

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registrars in training and for recent graduates of training programs. 6 As neurosurgical training incorporates expertise from centers worldwide, there is a 7 need to have input from specialists in neurosurgery from various countries. This text 8 is a compilation by expert authors in the USA and the UK to provide information on 9 the basic knowledge and clinical management required for optimal care of neuro- 2011 surgical patients. 1 The text is an up-to-date synopsis of the ?eld of neurosurgery from American and 2 British perspectives, which covers the most common clinical conditions encountered 3 by neurosurgeons.

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The chapters are organized under broad topics, including investigative studies, perioperative care, the role of newer techniques and the management of tumors, vascular and traumatic lesions. Additional topics are then covered, including pediatrics, spine and peripheral nerve lesions, as well as functional neurosurgery and infections. We anticipate that trainees will find this information useful for certification examinations and recent graduates of neurosurgical training programs can utilize this text as an update of the most important neurosurgical topics.

This book provides a comprehensive overview of the

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management of brain and skull base tumors. It features detailed insight into the intrinsic molecular biology, anatomical foundation, radiological planning, surgical execution, and the novel therapeutics that guide today's treatment regimens. The first section features concepts related to the epidemiology and pathological basis of disease processes, including relevant cellular and molecular biology. In the second section, integral anatomical foundations and principles are covered including microsurgical anatomy of the cerebrum, white matter tracts, ventricles, brainstem, skull base, advancements in radiological imaging, and cognitive

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examinations. Surgical approaches and how to execute these procedures are then subsequently discussed in the third part of the work. Principles of Neuro-Oncology: Brain & Skull Base is a practically applicable guide to the latest treatment techniques available to treat these patients. Therefore, it is an indispensable resource for all physicians who utilize these methodologies in their day-to-day practice.

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

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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.

Expert Consult - Online

Posterior Fossa Tumors in Children

Clinical Anesthesia in Neurosurgery

Comprehensive Management of Vestibular Schwannoma

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*A Physiologic Approach to Clinical
Practice*

*Theoretical Principles. Art of
Surgical Techniques*

***This is the first book on
the market which addresses
the need for a pocket-
sized guide to
neuroanaesthesia,
including the immediate
and ongoing care of head
injured patients.
Mesenteric-based
gastrointestinal and
colorectal surgery has
been practiced
internationally for over a
century. However, it is
not yet universally
adopted, and considerable***

variations exist. Such variations are explained by the historical disparity that has persisted between anatomic and surgical approaches to the intestinal mesentery. While mesenteric-based surgery is far from new, it is remarkable that its anatomic basis has only recently been formally described. This means that key mesenteric principles of intestinal and colorectal surgery can now be taught, conducted and developed, in an entirely standardised manner. This book is composed of two

parts. In this new book surgical anatomy, activities and operations are carefully defined, and beautifully illustrated, to enable all surgeons to conduct mesenteric-based intestinal and colorectal surgery, appropriately and with confidence.

It is estimated that the functionally significant body of knowledge for a given medical specialty changes radically every 8 years. New specialties and "sub-specialization" are occurring at approximately an equal rate.

Historically, established

journals have not been able either to absorb this increase in publishable material or to extend their readership to the new specialists.

International and national meetings, symposia and seminars, workshops, and newsletters successfully bring to the attention of physicians within developing specialties what is occurring, but generally only in demonstration form without providing historical perspective, pathoanatomical correlates, or extensive

discussion. Page and time limitations oblige the authors to present only the essence of their material. Pediatric neurosurgery is an example of a specialty that has developed during the past 15 years. Over this period neurosurgeons have obtained special training in pediatric neurosurgery and then dedicated themselves primarily to its practice. Centers, Chairs, and educational programs have been established as groups of neuro in different countries throughout the

world organized surgeons themselves respectively into national and international societies for pediatric neurosurgery. These events were both preceded and followed by specialized courses, national and international journals, and ever-increasing clinical and investigative studies into all aspects of surgically treatable diseases of the child's nervous system. Fundamentals of Neuroanesthesia is a comprehensive guide to neuroanesthesia which

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*focuses neurophysiology,
neuroanatomy, and
neurosurgical procedures,
and then offers practical
approaches to the practice
of neurosurgical
anesthesia.*

*Problem Based Learning
Discussions in*

*Neuroanesthesia and
Neurocritical Care*

*Skull Base Surgery of the
Posterior Fossa*

*Surgical Approaches for
Neurovascular Diseases*

Tumor Neurosurgery

*Principles of Neurological
Surgery E-Book*

Principles and Practice

This book provides a practical

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approach to the anesthetic management of surgical and nonsurgical procedures across the spectrum of anesthesia subspecialties. This book will assist the practitioner to plan their anesthetic from preoperative evaluation phase to complete recovery or transfer to another special care area. The emphasis is on both the planned technique and more importantly the logic or reasoning behind the suggested technique. This book addresses all important procedures in anesthesiology, including preoperative evaluation, airway management, and fluid administration. Every chapter

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discusses a specific surgery or procedure. Some topics of special interest are also included. Anesthesiology: A Practical Approach is aimed at anesthesia residents, anesthesia nurse practitioners, and experienced anesthesiologists called upon to work in any area or anesthetizing location. There are relationships that exist between neuroanesthesia, neurosurgical procedures, individual patient pathology and the positioning of a patient for said procedure. A comprehensive examination of these relationships, their association with patient

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morbidity/mortality and how to approach these issues in an evidence-based manner has yet to become available. Positioning related injuries have been documented as major contributors to neurosurgical/neuroanesthesiology liability. This text examines these relationships. It provides considerations necessary to the correct positioning of a patient for a neurosurgical procedure for each individual patient and their individual pathology. In other words, this text will demonstrate how to construct the necessary surgical posture for the indicated neurosurgical procedure given

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the individual constraints of the patient within the environment of anesthesia and conforming to existing evidence-based practice guidelines. Sections will address physiological changes inherent in positioning in relation to anesthesia for neurosurgical procedures, assessment of patient for planned procedure, as well as considerations for managing problems associated with these relationships. Additional sections will examine the relationship between neurosurgical positioning and medical malpractice and the biomechanical science between positioning devices and

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neurosurgical procedures.

Neurosurgery and its patient population are in a constant state of change. Providing the necessary considerations for the neurosurgical procedure planned under the anesthesia conditions planned in the position planned, often in the absence of multicase study literary support, without incurring additional morbidity is the goal of this text.

Tumor Neurosurgery provides information on the basic knowledge and clinical management required for optimal care of neurooncology patients. Providing an up-to-date synopsis of the field of tumor

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neurosurgery, the book covers the most common sites and tumor pathologies encountered by neurosurgeons. The chapters are organized under broad topics, including investigative studies, perioperative care and the role of newer techniques. The clinical management of CNS tumors in adults and children is described, including spinal tumors, both intradural and extradural. This book provides coverage of relevant topics in the field of tumor neurosurgery, for residents and registrars in training, and for recent graduates of training programs. Comprehensive, state-of-the-art

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review of the natural history, treatment, and outcomes of patients with vascular malformations of the brain and spine.

Principles, Anatomy, Approaches
Principles of Neurological
Surgery

Oxford Textbook of Neurological
Surgery

Cottrell and Young's
Neuroanesthesia

A Clinical Guide

Neurovascular Surgery

This book is a comprehensive, focused resource on intraoperative neurophysiological monitoring (IOM). This rapidly evolving field has created a demand for an up-to-

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date book such as this that builds on foundational concepts necessary to the practice of IOM in the context of anatomy and physiology. Each chapter is designed to not only inform the reader, but to also test the reader on the information presented - therefore promoting practical, problem-based learning. Surpassing the quality of its successful predecessor, Principles of Neurophysiological Assessment, Mapping, and Monitoring, Second Edition, is positioned to suit the needs of residents and fellows studying for the IOM certificate programs, physicians and anesthesiologists practicing IOM, and neurotechnologists both

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experienced and in training.

This second edition of Samii's Essentials in Neurosurgery contains revised and updated versions of chapters from the first edition plus contributions on new topics written by leading neurosurgeons who were trained by Professor Madjid Samii in Hannover, Germany. Almost all fields of neurosurgery are covered. The authors follow the traditional principles of Samii's philosophy in the diagnosis and management of various neurosurgical pathologies, while presenting their own personal experiences. The extensively illustrated texts document clearly how cutting-edge technology in neurosurgery is being applied in

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new approaches and techniques.

This book will greatly assist neurosurgeons, ENT surgeons, neuroradiologists, neurologists, and neurophysiotherapists in their everyday practice.

The ability to operate successfully in the posterior fossa requires a thorough understanding of its neuroanatomy and physiology, accurate localization of lesions, and optimal surgical technique.

Principles of Posterior Fossa Surgery provides an in-depth review of this complex surgical region, with detailed coverage of anatomy, pathology, imaging, disease-based management, and surgical approaches. Written by a team of

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highly respected specialists, it will be a valued reference and refresher for clinicians who perform posterior fossa surgery, as well as for trainees. Special Features: Begins with a useful framework in neuroimaging, neuropathology, and microsurgical anatomy of the posterior cranial fossa Covers a wide range of approaches and pathologies in the region, including congenital Chiari malformations, infections, trauma, aneurysms, and tumors Highlights the anatomy of common surgical approaches, with numerous radiographic and endoscopic images that aid in visualizing concepts Provides full coverage of surgical techniques, starting with basic

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concepts and progressing to operations on more challenging entities like petroclival meningiomas, jugular bulb tumors, acoustic neuromas, complex basilar aneurysms, and posterior circulation aneurysms Includes comprehensive sections on surgical management of pediatric posterior fossa tumors and shunt surgery for lesions Shares the insights of prominent neurosurgeons from top centers around the world, who discuss their preferred strategies for tackling this challenging area of the brain Focusing solely on the posterior fossa, this book fills an important gap for neurosurgeons, skull base specialists, and residents and fellows

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who are training in this anatomically challenging region. It will enrich their understanding and knowledge of the field, expand their surgical armamentarium, and help achieve the most successful clinical outcomes.

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

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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. 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

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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, where you
can also access the fully searchable
text, an image gallery, and links to

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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

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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.

Fundamentals of Neuroanesthesia
Brain & Skull Base

Pediatric Neurosurgery

Mesenteric Principles of
Gastrointestinal Surgery

Neuroanaesthesia

Principles and Practice of Keyhole
Brain Surgery

In this completely revised and enlarged new edition, Professor Sanna and his team provide systematic

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demonstrations of the major lateral skull base approaches, drawing from 20 years of experience of the eminent Gruppo Otologico located in Piacenza, Italy. Key features: Introductory chapters on the general principles, instrumentation, and special considerations that characterize this type of surgery Discussion of the radiology of skull base lesions as it relates to surgery, with particular emphasis on findings that can influence the choice of

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surgical approach, alter the course of surgery, or affect the prognosis Actual demonstrations of the anatomy seen during the different surgical approaches -- standard anatomy textbooks fail to address this issue For each approach, step-by-step descriptions of the surgical technique and numerous clinical cases representing the most commonly encountered lesions so that the reader receives a comprehensive understanding of how to perform the approach and what to expect during

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surgery Pearls and Pitfalls at the end of most chapters gathered from the vast number of cases managed throughout the years by the authors and included to help others avoid mistakes Over 1300 superb and instructive illustrations consisting of photographs of live surgery and cadaver dissections, radiologic images, and drawings This essential text also covers other must-know, highly advanced topics, including:
Combined approaches providing the necessary

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route to manage certain extensive skull base tumors that represent particular challenges Management strategies for different skull base lesions (e.g., surgical vs. nonsurgical management, the different factors that determine the choice of the surgical approach, cases that are managed conservatively or with radiosurgery) Management of the internal carotid artery in skull base surgery, including the new technique of using stents to facilitate tumor dissection from the

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internal carotid artery
This outstanding surgical atlas is invaluable for any surgeon who seeks not only to master the different surgical approaches but also to grasp the real essence of skull base surgery. Dr. Sanna is part of The Grupppo Otologico, a world-renowned specialist center for the diagnosis and medical and surgical treatment of diseases of the ear, skull base, facial nerve, head and neck, and paranasal sinuses. More information is available on the

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group's website, www.gruppootologico.it/eng.

The quintessential state-of-the-art atlas on endoscopic approaches to the lateral skull base The endoscope has become a highly effective tool in the arsenal of ear and skull base surgeons.

Endoscopic Lateral Skull Base Surgery: Principles, Anatomy, Approaches by endoscopic surgery masters Daniele Marchioni and Livio Presutti, reflects their development of innovative transcanalar approaches to the lateral cranial base using the

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external auditory canal as a surgical corridor. This unique atlas is designed to teach and clarify current and emerging endoscopic-assisted surgery approaches to the lateral skull base. The common goal of these cutting-edge procedures is to access and treat tumors located in the lateral cranial base via the most minimally-invasive endoscopic approach possible, thereby bypassing delicate cranial nerves, dural, cerebral, and vascular structures. Throughout 14 chapters, an

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impressive group of skull base surgeons share firsthand insights and expertise in areas vital to endoscopic skull base surgery. Key Features Featuring contributions from the who's who of global experts who continue to innovate by using the endoscope beyond its traditional use in middle ear surgery Opening chapters cover anatomy, microscopic approaches, endoscopic dissection, instrumentation, OR set-up, and radiologic assessments Procedural chapters detail endoscopic

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approaches including transtemporal combined, retrosigmoid, and transcanalar techniques such as suprageniculate, transpromontorial, and infracochlear Patient cases, clinical applications, and step-by-step guidance enhance understanding of diverse endoscopic approaches High-quality preoperative, intraoperative, and postoperative illustrations are selected from thousands of surgeries performed by the authors This remarkable book provides the most

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comprehensive and elucidating information written to date on endoscopic approaches to the lateral skull base, making it essential reading for novice and expert surgeons alike. This open access book presents the diagnosis, investigation and treatment of neurovascular diseases, and offers expert opinions and advice on avoiding complications in neurovascular surgery. It also covers complication management and post-operative follow-up care. The book is

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divided in to three parts; the first part discusses common approaches in neurovascular surgery, describing the steps, indications for and limitations of the approach, as well as the associated complications and how to avoid them. The second part addresses surgical treatment based on pathology, taking the different locations of lesions into consideration. The third part focuses on the technological developments that support neurovascular surgery, which may not be

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available everywhere, but have been included to help vascular surgeon understand the principles. This book is a guide for young neurosurgeons, neurosurgery residents and neurosurgery fellows, as well as for medical students and nurses who are interested in neurosurgery or are associated with this field in any way. It is also a useful teaching aid for senior neurosurgeons. A detailed review of practical concerns in surgical procedures involving collaboration

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between otolaryngologists and neurosurgeons. The book offers guidance in anticipating and managing the problems encountered in collaborative surgery, including neurotology, skull base surgery, combined management of aggressive head and neck problems, trauma, rhinological exposure of pituitary neoplasms, and exposure of cervical spine pathology.

Microneurosurgery

Anesthesiology

Principles and Practice of
Ophthalmic Plastic and
Reconstructive Surgery

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Surgical Management

Anatomical Principles of
Endoscopic Sinus Surgery
Core Topics in
Neuroanaesthesia and
Neurointensive Care

**Core Topics in
Neuroanesthesia and
Neurointensive Care is an
authoritative and practical
clinical text that offers
clear diagnostic and
management guidance for a
wide range of
neuroanesthesia and
neurocritical care
problems. With coverage of
every aspect of the
discipline by outstanding
world experts, this should**

be the first book to which practitioners turn for easily accessible and definitive advice. Initial sections cover relevant anatomy, physiology and pharmacology, intraoperative and critical care monitoring and neuroimaging. These are followed by detailed sections covering all aspects of neuroanesthesia and neurointensive care in both adult and pediatric patients. The final chapter discusses ethical and legal issues. Each chapter delivers a state-of-the art review of clinical practice,

including outcome data when available. Enhanced throughout with numerous clinical photographs and line drawings, this practical and accessible text is key reading for trainee and consultant anesthetists and critical care specialists. Principles of Posterior Fossa Surgery Thieme Pediatric Neurosurgery identifies and describes the theoretic concepts of clinical and operative neurosurgery in the different ages of childhood, emphasizing both clinical and surgical principles. It presents a comprehensive

body of pediatric clinicopathologic entities, elaborating upon the anatomical and physiological criteria which distinguish individual age categories. This book is unique in that it establishes an holistic approach to perceiving spatially the dimensions of the child vis-a-vis the surgeon and his team, the disarticulation of individual states of operative procedures and the grouping of procedures common to the treatment of different clinicopathological entities, the presentation of clinical

parameters indicative of surgical treatment and essential to determining which techniques are preferable. The extensive use of artwork and operative photographs highlights the systematic description of general and specific surgical techniques as it integrates the clinical principles into guidelines for therapy.

Classically defined as the art of curing by the hand, hand intended as the organ of the possible, and positive certitude according to Paul Valery, surgery is shifting toward a scientific

discipline with a very high technological valence.

Neurosurgery in general, and skull base surgery in particular do not stave off this natural evolution.

Obviously, technological advances have driven the tremendous progresses in both diagnosis (CT scan, MRI, angiography) and therapeutic fields (ultrasonic aspiration, radiosurgery). This technological aspect should not hide the humanistic remnant of the modern neurosurgeon, who should propose the less invasive technique in his possession

to treat most efficiently his patient, keeping in mind the quality of life above all. The compromise between the invasiveness of the surgical approach to the skull base and the main goal of the surgery has shed light on the recent concept of minimally invasive skull base surgery. This concept has been conspicuously initiated by Axel Perneczky in the late 1980s under the descriptive keyhole neurosurgery, especially through the renowned eyebrow supra-orbital mini-craniotomy and the implementation of

endoscope-assisted microneurosurgery. A decade after, Jho and others introduced the endoscopic endonasal approaches to the skull base, with a perpetual development and an exponential rhythm of scientific publications. This recent paradigm shift toward a minimal approach-related iatrogeny coupled with a maximally efficient surgical target is not so clear cut, as pioneering neurosurgeons such as Cushing, Dandy or Dott among others already adopted this philosophy of

work, limited by the technology available at that time that did not permit their minimally invasive expectations. This has been possible only with the progresses made in the fields of imaging, surgical instrumentation, illumination technologies (microscope and endoscope), radiosurgery, and neuroanesthesia.

**Comprehensive
Management of Skull Base
Tumors
Perioperative Management
A Practical Approach
Endoscopic Lateral Skull
Base Surgery**

Minimally Invasive Skull Base Surgery A Step by Step Approach

This book presents a student-centric, problem-based approach to learning key issues in neuroanesthesia and neurocritical care, a concept that is gaining popularity and acceptance in the medical education field. Each chapter starts with a brief case scenario describing the condition, followed by series of questions and answers covering

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important aspects like differential diagnosis, associated co-morbidity, preoperative evaluation and preparation, intraoperative anesthetic management, postoperative management and prognosis. Featuring questions to engage readers, and providing answers based on reason and supported by evidence and references, the book is a valuable educational aid for trainees and residents. It also offers insights into the real-world

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clinical situations,
making it of interest to
practicing
anesthesiologists and
neuroanesthesiologists.
Rev. ed. of: Principles
of neurosurgery / edited
by Setti S. Rengachary,
Richard G. Ellenbogen.
2nd ed. 2005.

The consummate guide on
the contemporary
management of complex
skull base tumors from
renowned
multidisciplinary
experts! An increased
understanding of the
biology and molecular

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characterization of skull base tumors has led to innovative new approaches. Endoscopic tumor resection, surgical reconstruction, and advances in radiation delivery, chemotherapy, and targeted biologic therapy, have greatly expanded treatment options for patients with these challenging tumors. The updated second edition of Comprehensive Management of Skull Base Tumors by master surgeons Ehab

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Hanna, Franco DeMonte, and an impressive group of global experts reflects expanded knowledge of skull base tumors and evidence-based advances. This generously illustrated second edition is organized into three sections with 42 chapters. Section I features expanded coverage of endonasal skull base anatomy and surgical principles, as well as radiotherapeutic advances such as proton therapy and stereotactic

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radiation. Section II is focused on site-specific procedures with emphasis on surgical approaches, and Section III focuses on tumor-specific considerations with emphasis on multidisciplinary treatment approaches. Core topics of this thorough book include pathology, genetics, diagnostic considerations, surgical reconstruction, rehabilitation, chemotherapy, functional outcomes, quality of

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life issues,
neurocognitive
assessment, and
cerebrovascular
management. Key Features
In-depth discussion of
anatomic regions of the
cranial base, including
surgical anatomy,
regional pathology,
differential diagnosis,
clinical assessment,
diagnostic imaging, and
surgical approaches
Incidence, epidemiology,
pathology, staging,
multidisciplinary
treatment, outcome, and
prognosis for a wide

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range of neoplasms including squamous cell carcinoma, chondrosarcomas, chordomas, meningiomas, schwannomas, paragangliomas, pituitary adenomas, craniopharyngiomas, epidermoids, and fibro-osseous lesions

Outstanding illustrations, surgical and clinical photos, imaging, tables, and videos new to this edition, enhance understanding of complex skull base tumors The

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most comprehensive resource available today on the management and treatment of skull base tumors, this book is essential reading for neurosurgical and otolaryngology residents. It will also benefit surgeons who specialize in oromaxillofacial, craniofacial, and plastic and reconstructive surgery. This text provides a comprehensive and contemporary overview of surgical approaches to

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lesions of the posterior fossa. It will serve as a resource for neurosurgeons and otologists who treat patients with tumors and vascular diseases of the posterior fossa. It provides a concise review of surgical strategies that address the most important pathologies affecting the posterior fossa. It is richly illustrated with photographs and illustrations of the surgical strategies covered. All chapters

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are written by experts with world-wide recognition for their contributions in their respective subspecialty. Skull Base Surgery of the Posterior Fossa will be of great utility to Neurosurgeons, Otolaryngologists, and Radiation Therapists with an interest in diseases that affect the posterior fossa, as well as Senior Residents in Neurosurgery and Otolaryngology, and Fellows of Skull Base Surgery and Otology.

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Neurosurgical Issues in
Otolaryngology
Perioperative
Considerations and
Positioning for
Neurosurgical Procedures
Principles of Neuro-
Oncology

Principles and Practice
of Collaboration

Niedermeyer's
Electroencephalography

Principles of Posterior
Fossa Surgery

A step-by-step guide to
modern techniques of
keyhole brain surgery
Developed 20 years ago by
leading innovators in the

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field, the keyhole concept of brain surgery has become an integral part of the practice of neurosurgery. This timely and comprehensive book covers the thinking, philosophy, and techniques of modern keyhole brain surgery, including a realistic assessment of its benefits and limitations. Written by expert practitioners and highlighted by vivid surgical illustrations and procedural videos, Principles and Practice of Keyhole Brain Surgery functions as an

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experienced mentor working side by side with neurosurgeons as they master the techniques.

Special Features:

Introduces the basic principles of the keyhole approach, including the practical, technical, and logistical aspects of planning procedures and operating through small openings Beautifully illustrated with over 1,000 endoscopic images, diagrams, surgical drawings, and operative photographs, many showing step-by-step procedures Details the pivotal role

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of the endoscope in keyhole brain surgery and its ability to provide multiple angles of visualization, including a useful catalog of clinical situations where the endoscope has proven most effective. Demonstrates contemporary keyhole approaches (e.g., the eyebrow/sub-frontal approach) in procedures for supratentorial intra-axial brain tumors, tumors of the cribriform plate and orbit, parasellar masses, craniopharyngiomas, tumors of the middle fossa and

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cavernous sinus, and many other conditions in the cranial base Offers more than 100 procedural videos on the Thieme MediaCenter, narrated by the authors and aligned to the chapters in the book for an unparalleled learning resource Providing all the information necessary to achieve surgical goals through well placed, smaller openings—with the added benefits of shorter procedures, fewer wound complications, and better patient outcomes—Principles and Practice of Keyhole Brain

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Surgery is essential for every neurosurgeon in practice today.

The leading reference on electroencephalography since 1982, Niedermeyer's *Electroencephalography* is now in its thoroughly updated Sixth Edition. An international group of experts provides comprehensive coverage of the neurophysiologic and technical aspects of EEG, evoked potentials, and magnetoencephalography, as well as the clinical applications of these studies in neonates, infants, children, adults,

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and older adults. This edition's new lead editor, Donald Schomer, MD, has updated the technical information and added a major new chapter on artifacts. Other highlights include complete coverage of EEG in the intensive care unit and new chapters on integrating other recording devices with EEG; transcranial electrical and magnetic stimulation; EEG/TMS in evaluation of cognitive and mood disorders; and sleep in premature infants, children and

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adolescents, and the elderly. A companion website includes fully searchable text and image bank.

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

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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;

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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 Spina
Tumours etc.) and
'Pathology-Specific'
chapters (e.g. Glioma,
Meningeal Tumours,
Scoliosis and Spinal

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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

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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

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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 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. The first two sections of this text address endoscopic and keyhole surgical procedures for

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cranial base and deep brain structures. These sections provide a comprehensive, state-of-the-art review of this minimally invasive field and will serve as a valuable resource for clinicians, surgeons and researchers with an interest in cranial base surgery. The philosophy, techniques, indications and limitations of endoscopic and keyhole cranial base surgery are covered in detail. This reference includes a discussion of the basic principles of these

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approaches as well as the preoperative planning, intraoperative pearls, and reconstruction techniques. The thorough descriptions of the practical and technical aspects are accompanied by extensive illustrations, figures and operative images. Extending beyond the technical details of these procedures, this text provides a third section that focuses on a thorough analysis and comparison of the endoscopic, keyhole and traditional open approaches to specific intracranial regions.

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Utilizing a “target-based” approach, the utility of each surgical technique is evaluated in regard to accessing pathology of the anterior, middle and posterior fossa cranial base as well as the deep central regions of the brain. All chapters are written by experts in their fields and include the most up to date scientific and clinical information. Endoscopic and Keyhole Cranial Base Surgery will be a valuable resource to specialists in optimizing surgical results and improving

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patient outcomes.

Basic Principles, Clinical
Applications, and Related
Fields

Atlas of Microsurgery of
the Lateral Skull Base
Basic and Applied Science
Posterior Fossa Tumors

The definitive resource on clinical
management of vestibular
schwannoma from world renowned
experts Although a histologically
benign and relatively uncommon
tumor, otolaryngologists and
neurosurgeons have maintained a
lasting and deep-rooted fascination
with vestibular schwannoma, also
known as acoustic neuroma.

Advancements in microsurgical
technique, radiosurgery, and
radiotherapy, coupled with an

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increased understanding of the natural history of the disease, have made modern management of this tumor considerably more complex. Concurrently, new controversies have added to the original debates among pioneering surgeons, with the pendulum swinging between conservatism and definitive cure. Comprehensive Management of Vestibular Schwannoma, by distinguished Mayo Clinic clinicians and renowned international contributors, is a comprehensive textbook covering all the clinical aspects of vestibular schwannoma management. Eighty-four chapters written by multidisciplinary experts including otolaryngologists, neurosurgeons, radiation oncologists, neurologists, neuroradiologists, and audiologists, ensure a balanced view

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of all treatment modalities for sporadic and neurofibromatosis type 2-associated vestibular schwannoma. Key Features Evaluation, surgical and nonsurgical approaches, rehabilitation, controversies, and long-term clinical outcomes Detailed illustrations by Robert Morreale, senior medical illustrator at the Mayo Clinic, highlight relevant anatomy and surgical approaches Chapter summary tables provide readers with a rapid clinical reference derived from the published world literature The chapter "Anatomy of Vestibular Schwannoma Surgery" by the late internationally renowned neurosurgeon Albert L. Rhoton Jr. reflects his major contributions on this subject With inclusion of fundamental principles to advanced concepts, this is a robust resource for

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residents, fellows, and early attending physicians, as well as mid- to later-career physicians who care for patients with vestibular schwannoma. Cottrell's Neuroanesthesia 5th Edition, edited by James E. Cottrell, MD, FRCA and William L. Young, MD, delivers the complete and authoritative guidance you need to ensure optimal perioperative safety for neurosurgical patients. Integrating current scientific principles with the newest clinical applications, it not only explains what to do under any set of circumstances but also why to do it and how to avoid complications. Comprehensive updates reflect all of the latest developments in neurosurgical anesthesia, and contributions from many new experts provide fresh insights into overcoming tough clinical challenges. New co-editor

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William L. Young, MD joins James E. Cottrell, MD, FRCA at the book's editorial helm, providing additional, complementary expertise and further enhancing the book's authority. New chapters keep you current on interventional neuroradiology, anesthetic management of patients with arteriovenous malformations and aneurysms, awake craniotomy, epilepsy, minimally invasive and robotic surgery, and pregnancy and neurologic disease. Comprehensive updates reflect all of the latest developments in neurosurgical anesthesia, and contributions from many new experts provide fresh insights into overcoming tough clinical challenges. Comprehensive and broad coverage of all important aspects of neuroanesthesia, including special patient populations, enables

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you to find reliable answers to any clinical question. Chapters written by neurointensivists, neurosurgeons, and radiologists provide well-rounded perspectives on each topic. A consistent, logical organization to every chapter makes answers easy to find quickly. Clear conceptual illustrations make complex concepts easier to understand at a glance.