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Neurovascular Surgery Samii's Essentials in Neurosurgery  
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Advanced Ultrasound Elastographic Techniques in  
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Winner of Association of American Publishers Best Book in Clinical Medicine, 2006 Highly Commended in Surgery by British Medical Association, 2007 Here is complete coverage of state-of-the-art surgical techniques for the spine and peripheral nerves. This atlas engages the full range of approaches -- anterior, antero-lateral, posterior, and postero-lateral -- for operations on peripheral nerves and in every area of the spine. Each of the seven sections of the atlas opens with in-depth discussion of pathology, etiology and differential diagnosis conveying the underlying scientific principles of diseases and conditions of the spine and peripheral nerves. The authors then present technique-oriented chapters containing step-by-step descriptions of surgical procedures. These chapters delineate the goals, indications, contraindications, anesthesia considerations, positions, as well as the advantages and disadvantages of each technique in a concise manner, ideal for the busy practitioner seeking review. Lavishly illustrated with more than 1,200 images, including 811 beautiful full color drawings, this authoritative text covers all of the critical issues involved in surgeries for the spine and peripheral nerves. Here is an invaluable asset to neurosurgeons, orthopedic surgeons and residents seeking a carefully edited, didactic atlas. Focusing solely on must-know procedures, Operative Techniques: Spine Surgery, 3rd

Edition by Drs. Alexander R. Vaccaro and Eli Baron, offers a highly visual, step-by-step approach to the latest techniques in the field. Thorough updates keep you current with recent changes in spine surgery, and new contributors bring a fresh perspective to this rapidly-changing specialty. Part of the popular Operative Techniques series, this practical reference focuses on individual procedures, each presented in an easy-to-follow format for quick reference. Step-by-step intraoperative photos depict each technique, and high-quality radiographs show presenting problems and post-surgical outcomes. Surgical videos available online demonstrate how to perform state-of-the-art procedures. Clean design layout features brief, bulleted descriptions, clinical pearls, and just the right amount of relevant science. Ideal for orthopaedic and neurosurgery residents, fellows, and practicing surgeons. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices. Updated coverage includes hybrid surgery, coflex fusion, and modifications to the lateral transosseous approach. Schmidek and Sweet has been an indispensable reference for neurosurgery training and practice for nearly 50 years, and the 7th Edition of Operative Neurosurgical Techniques continues this tradition of excellence. A new editorial board led by editor-in-chief Dr. Alfredo Quinones-Hinojosa, along with more than 330 internationally acclaimed contributors, ensures that readers stay fully up to date with rapid changes in the field. New chapters, surgical videos, and quick-reference features throughout make this edition a must-have resource for expert procedural guidance for today's practitioners. Discusses indications, operative techniques, complications, and results for nearly every routine and specialized procedure for brain, spinal, and peripheral nerve

problems in adult patients. Covers the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arterio-venous malformations. Includes new chapters on bypass techniques in vascular disease, previously coiled aneurysms, CSF diversion procedures, surgical management of posterior fossa cystic and membranous obstruction, laser-ablation techniques, and brain stem tumors. Explores hot topics such as wide-awake surgery and ventriculo-peritoneal, ventriculoatrial and ventriculo-pleural shunts. Provides detailed visual guidance with more than 1,600 full-color illustrations and 50 procedural videos. Contains quick-reference boxes with surgical pearls and complications. Comprehensive guide to the latest techniques in neurovascular surgery, covering a wide range of neurovascular diseases in both open surgical and endovascular aspects of treatment.

**Neurosurgical Neuropsychology: The Practical Application of Neuropsychology in the Neurosurgical Practice** comprehensively explains the use of neuropsychology in neurosurgical settings. The book covers various preoperative techniques that may benefit neurosurgeons, such as functional neuroimaging (fMRI, SPECT, MEG) for presurgical cognitive mapping, as well as more traditional methods to predict outcomes after surgery, including neurocognitive testing and the Wada procedure. The book's editors discuss why neuropsychologists add considerable value to the neurosurgical team. A wide range of patient populations are covered, ranging from Deep Brain Stimulation candidates for Parkinson's disease, to adult and pediatric epilepsy candidates and neuro-oncology cases. This book is ideal for

neurosurgeons, neuropsychologists, neuro-oncologists, epileptologists, general neurologists, and others who want to know more about the use of neuropsychology as a tool in the presurgical and postoperative phases of neurosurgery. Comprehensively explains the use of neuropsychology in neurosurgical settings Written for researchers and clinical practitioners, focusing on neurosurgery, neuropsychology, clinical neuroscience and neurology Discusses various techniques that may be of benefit to neurosurgeons, including presurgical and postoperative choices like functional neuroimaging (fMRI, SPECT, MEG) for presurgical cognitive mapping, neurocognitive testing, and the Wada procedure Whatever you may say about Professor Samii, his take on neurosurgery cannot be ignored. In this book readers will find pieces that express the philosophy of the most well-known 'Neurosurgical School'. International experts present Professor Samii's teaching and philosophy in dealing with the most difficult neurosurgical pathologies as well as future developments. Basic concepts in neurosurgical sciences, modern surgical techniques and cutting-edge technology are presented in detail. 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. 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. Now in two volumes—an updated atlas to help you and disorders of the brain... This thoroughly revised and expanded atlas is the ideal reference for residents, fellows, and clinicians to review surgical procedures before entering the operating room. The authors provide step-by-step descriptions of techniques, clearly delineating indications and contraindications, goals, operative preparation and



anesthesia, and postoperative management. The main focus of this book is on teaching neurosurgical techniques at the most detailed level. Features of the second edition: A new chapter on proton therapy An expanded section covering the latest radiosurgery techniques Nearly 3,000 high-quality images aid rapid comprehension of surgical procedures Online access to more than 100 surgical technique videos This book should be read cover to cover by young practitioners several times during their residency, and it will keep more experienced neurosurgeons up-to-date on the latest surgical techniques in the field. This book includes complimentary access to a digital copy on <https://medone.thieme.com>. A step-by-step manual on fundamental microsurgical bypass techniques young neurosurgeons need to master! All neurosurgeons must undergo rigorous training in the laboratory and practice bypass techniques repetitively before performing microneurosurgery on a patient. **Microsurgical Basics and Bypass Techniques** by Evgenii Belykh, Nikolay Martirosyan, M. Yashar S. Kalani, and Peter Nakaji is a comprehensive yet succinct manual on fundamental laboratory techniques rarely included in clinical textbooks. The resource simplifies repetitive microsurgical practice in the laboratory by providing a menu of diverse, progressively challenging exercises. Step-by-step instructions accompanied by easy-to-understand illustrations, expert commentary, and videos effectively bridge the gap between laboratory practice and operating room performance. The book starts with an opening chapter on four founding principles of microsurgical practice inherited from great thinkers and concludes with a chapter featuring cerebrovascular bypass cases. Chapters 2-8 offer a complete one-week curriculum, with a different lab exercise each day, focused on learning basic microsurgery skills. **Key Features**

Twenty-six videos cover a wide array of topics – from diverse methods for holding instruments and suturing techniques – to end-to-end, end-to-side, and side-to-side anastomosis procedures. High quality color illustrations clearly demonstrate basic techniques. Practical laboratory exercises include how to organize a microsurgical laboratory, essential training and skills, basic arterial and deep-field anastomoses, kidney autotransplantation, supermicrosurgery, and aneurysm clipping. Invaluable tips such as preventing bypass errors and applying laboratory skills to neurosurgical practice. This is an essential microsurgical learning and teaching guide for neurosurgical residents on how to perform basic bypass and anastomoses procedures step by step. Part of the Fundamental Skills in Neurosurgery Series, Series Editors: Peter Nakaji, Vadim A. Byvaltsev, and Robert F. Spetzler. This volume presents authoritative reviews of the most exciting topics in contemporary neurosurgery, featuring color plates, and up-to-date and annotated references to the leading articles in the field. In addition, it covers emerging technologies impacting OR reorganization and computer workstations, leading ultimately to the practice of neurosurgery at a molecular level. 'Proceedings of SPIE' offer access to the latest innovations in research and technology and are among the most cited references in patent literature. This volume presents authoritative reviews of the most exciting topics in contemporary neurosurgery, featuring color plates, and up-to-date and annotated references to the leading articles in the field. In addition, it covers emerging technologies impacting OR reorganization and computer workstations, leading ultimately to the practice of neurosurgery at a molecular level. This book covers all ethical aspects of introducing novel implants and procedures in neurosurgery in a structured way, addressing the current

knowledge gap concerning ethical innovations in neurosurgery. Initially it explores the difficulties involved in defining when a procedure should be considered innovation, research, or care. To this end, it presents not only an overview of current literature, but also data from a recent survey among neurosurgeons in Europe. The book subsequently discusses the ethical issues related to innovation. These include: informed consent (what should a surgeon tell the patient and how should he/she do so), oversight (can any surgeon simply implant a novel spinal device?), the learning curve (when should a surgeon be allowed to perform a novel procedure?), vulnerable patients (how to innovate in the pediatric population or in an emergency setting), and conflicts of interest, as well as the ethics of paying for innovative treatments. In turn, the closing chapters focus on the evaluation of neurosurgical research and innovation. Are cultural changes necessary and how could innovation benefit from (international) collaborations? Given the range of topics addressed, the book offers neurosurgeons, residents, scientists, companies and hospital administrations a valuable guide to introducing novel implants and techniques in neurosurgery. Image-Guided Neurosurgery provides readers with an update on the revolutionary improvements in imaging and visualization relating to neurosurgery. From the development of the pneumoencephalogram, to the operating microscope, to cross sectional imaging with CT and later MRI, to stereotaxy and neuronavigation, the ability to visualize the pathology and surrounding neural structures has been the driving factor leading surgical innovation and improved outcomes. The book provides a comprehensive reference on the application of contemporary imaging technologies used in neurosurgery. Specific techniques discussed include brain biopsies, brain

tumor resection, deep brain stimulation, and more. The book is ideal for neurosurgeons, interventional radiologists, neurologists, psychiatrists, and radiologists, as well as technical experts in imaging, image analysis, computer science, and biomedical engineering. A comprehensive reference on image-guided neurosurgery Includes coverage of neuronavigation in cranial surgery and advanced imaging, including functional imaging, adoption of intra-operative MRI and emerging technologies Covers all image-guided neurosurgery tools, including robotic surgical devices Ideal reference for topics relating to neurosurgery, imaging, stereotaxis, radiosurgery, radiology, epilepsy, MRI, the use of medical robotics, lasers, and more This atlas of pediatric neurosurgery describes and demonstrates the spectrum of operations to treat the major disorders, including congenital malformations, hydrocephalus, tumors, vascular and functional disorders, and trauma. The chapters present state of the art techniques and are written by nationally recognized authorities. The text serves as a companion to Principles and Practice of Pediatric Neurosurgery. A History of Neurosurgery is the first thorough book on the history of neurosurgery published since 1951. The book is organized around a specific historiographic framework that traces the advancement of the specialty. Included are chapters on ancient trepanation, Macewen's first use of the combined technologies of anesthesia, antisepsis and cortical localization in 1879 to plan and perform craniotomies, the emergence of Harvey Cushing's leadership, the evolution of modern neurosurgical techniques and technology and much more. 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. Praise for the previous edition: The editors...know the needs of residents at a 'grass-root level'...An easily accessible source of information for residents in training.--Journal of Neurosurgery The only portable handbook on operative techniques in neurosurgery, this step-by-step guide offers unparalleled coverage of every major operative procedure seen in daily practice. Concise chapters hold key clinical information on indications, preoperative planning, intraoperative technique, postoperative care, and complications, with insights and advice from renowned experts representing every main specialty in the field. Features: Detailed coverage of all common neurosurgery procedures Over 40 new chapters featuring the latest information on intradural nerve sheath tumors, ulnar nerve submuscular transposition, lambdoid synostosis, radiosurgery for skull base lesions, and much more Succinct bullet-point format for quick and easy reference Management pearls at the end of every chapter highlight and expand on each procedure Nearly 200 new drawings emphasize key surgical steps A reliable companion to Greenbergs Handbook, the second edition of Fundamentals of Operative Techniques in Neurosurgery is a must-have resource for those in training or for anyone who provides mentorship or support in the field of

neurosurgery. Wherever, whenever, or however you need it, unmatched procedural guidance is at your fingertips with the new edition of Schmidek & Sweet: Operative Neurosurgical Techniques! Completely revised under the auspices of new editor-chief Dr. Alfredo Quiñones-Hinojosa, this comprehensive medical reference examines indications, operative techniques, complications, and results for nearly every neurosurgical procedure. Full-color illustrations, 21 new chapters, internationally-acclaimed contributors, surgical videos, and online access make it a "must have" for today's practitioner. Hone your skills for Master virtually every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Review clinical information on image-guided technologies and infections. Easily understand and apply techniques with guidance from more than 1,600 full-color illustrations. Rely on the knowledge and experience of new editor-in-chief Dr. Alfredo Quiñones-Hinojosa and leading international authorities, who offer multiple perspectives on neurosurgical challenges, from tried-and-true methods to the most current techniques. See exactly how to proceed with online surgical videos that guide you through each technique and procedure to ensure the best possible outcomes and results. Apply the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arterio-venous malformations. Take it with you anywhere! Access the full text, downloadable image library, video clips, and more at [www.expertconsult.com](http://www.expertconsult.com). Current Techniques in Canine and Feline Neurosurgery offers state-of-the-art, detailed guidance on performing neurosurgical techniques in

dogs and cats, from indications and surgical anatomy to procedures and post-operative care. Presents an up-to-date, detailed reference on veterinary neurosurgery techniques, covering skills ranging from basic to advanced Provides guidance on why, when, and how to perform neurosurgical procedures Includes information on diagnostic evaluation, surgical planning, and instrumentation as well as step-by-step descriptions of specific procedures Copublished with the American College of Veterinary Surgeons Foundation and American College of Veterinary Internal Medicine Offers video clips on a companion website This volume of Advances in Neurosurgery 7 presents the papers held at the Joint Meeting of the American Academy of Neurological Surgery and the "Deutsche Gesellschaft fUr Neurochirurgie" in October 1978 in Munich. This exchange of thoughts on scientific methods in neurosurgery on both sides of the globe, i.e., both in the United States and in Germany, covered a number of different topics in the field of neurosurgery, with special emphasis on the following subjects: Intracranial vascular surgery and specialized neurosurgical techniques used for different operative approaches to the skull, brain, pituitary gland, and peripheral nerves. Contributions to the field of computer tomography, traumatology, functional and experimental neurosurgey, as well as chemotherapy rounded off the broad exchange of thoughts. In particular, the variety of the problems discussed, gives insight into the present state of our special field and shows progress and new points of departure. Special gratitude is expressed to the Springer-\Tedag for its help in editing the Ad vances in Neurosurgery, Volume 7. Miinchen, September 1979 EMARGUTH v Opening Oration F. MARGUTH I should like to welcome all of you wholeheartedly to the Joint Meeting of the American Academy of Neurological Surgery and the Deutsche Gesellschaft fUr N eurochirurgie. I

welcome especially our colleagues from the United States and the ladies. Neuro Spinal Surgery Operative Techniques: Lateral Mass Fixation in Sub-axial Cervical Spine is a concise, illustrated resource, which provides a step by step guide to the successful insertion of a lateral mass screw. The book is split into two sections; the first covers the basic concepts of lateral mass (the bulky, solid parts of the first vertebra of the spine which support the weight of the head). The second section covers surgical techniques, with surgical procedures accompanied by intraoperative photographs and drawings. This book is enhanced by over 100 full colour images and illustrations, making this book a highly useful reference tool for spine surgeons. Step-by-step descriptions of surgical techniques This book highlights the successful collaboration of plastic surgeons, neurosurgeons, and, in some cases, ENT, maxillofacial, oral, and oculoplastic surgeons, in treating some of the most complex craniofacial, skull-based, intracranial, and spinal problems. Beginning with the basic principles of wound healing and flap rotation, you will find full discussions of craniofacial anomalies, skull base tumors, scalp closures, skull defects, management techniques for spinal dysraphism, and much more. Key features: Nearly 300 beautiful illustrations, most in full-color, effectively map out each procedure Updated with a thorough review of potential complications and how to avoid them Valuable procedural guidelines on the newest techniques for full calvarial and facial reconstructions, especially around the eyes, orbit, and midface region -Demonstrates MR and 3D imaging in surgical management of congenital malformations of the spine Discusses the role of ENT, maxillofacial, and oculoplastic procedures for optimal outcomes With a balanced combination of concepts followed by illustrated, step-by-step surgical techniques, here is the book that all neurosurgeons



and plastic and reconstructive surgeons will use as both an everyday reference and a key addition to their surgical armamentariums. Residents preparing for boards will also find its succinct, straightforward coverage ideal for reviewing fundamental principles and surgical applications. Both a theoretic text book and a descriptive atlas, this standard reference in the field presents the individual steps of each surgical procedure. It represents the current perspective in the management of the child's nervous system and discusses at great length the individual pathological entities which may be treated surgically. Numerous illustrations highlight both the operative technique and theoretic principles sections of the book, whereas the neuroimages are used in the theoretic principle section - accentuating the correlation of imaging with surgical planning and decision making. Recent world literature has been systematically reviewed, analysing critically different perspectives. Current Techniques in Canine and Feline Neurosurgery offers state-of-the-art, detailed guidance on performing neurosurgical techniques in dogs and cats, from indications and surgical anatomy to procedures and post-operative care. Presents an up-to-date, detailed reference on veterinary neurosurgery techniques, covering skills ranging from basic to advanced Provides guidance on why, when, and how to perform neurosurgical procedures Includes information on diagnostic evaluation, surgical planning, and instrumentation as well as step-by-step descriptions of specific procedures Copublished with the American College of Veterinary Surgeons Foundation and American College of Veterinary Internal Medicine Offers video clips on a companion website A summary of all facets of this new and rapidly developing field in neurosurgery. Besides neuroendoscopy, the books main topics are neuronavigation, functional neurosurgery, radiosurgery, neurotransplantation,

and molecular neurosurgery. Provides a thorough overview of the state of the art and future perspectives in minimally invasive neurosurgery. ...written by knowledgeable, active practitioners of our specialty and as our field is rapidly progressing, I welcome this upgraded version....In conclusion, this 2nd edition...offers some significant improvements over the 1st edition, which was also a very valuable contribution to our neurosurgical literature, and establishes itself as the authoritative atlas of neurosurgical techniques. -- Acta Neurochirurgica The second edition of this book, published as a two-volume set, is a thoroughly revised and expanded version of the original masterful work that incorporates these advances and addresses virtually all aspects of cranial neurosurgery. -- World Neurosurgery This thoroughly revised and expanded atlas is the ideal reference for residents, fellows, and clinicians to review surgical procedures before entering the OR. The authors provide step-by-step descriptions of techniques, clearly delineating indications and contraindications, goals, operative preparation and anesthesia, and postoperative management. The main focus of this book is on teaching neurosurgical techniques at the most detailed level. Features of the second edition: A new chapter on proton therapy An expanded section covering the latest radiosurgery techniques Nearly 3,000 high-quality images aid rapid comprehension of surgical procedures Online access to more than 100 surgical technique videos This book should be read cover to cover by young practitioners several times during their residency and it will keep more experienced neurosurgeons up-to-date on the latest surgical techniques in the field. Schmidek and Sweet has been an indispensable reference for neurosurgery training and practice for nearly 50 years, and the 7th Edition of Operative Neurosurgical Techniques continues this tradition

of excellence. A new editorial board led by editor-in-chief Dr. Alfredo Quinones-Hinojosa, along with more than 330 internationally acclaimed contributors, ensures that readers stay fully up to date with rapid changes in the field. New chapters, surgical videos, and quick-reference features throughout make this edition a must-have resource for expert procedural guidance for today's practitioners. Discusses indications, operative techniques, complications, and results for nearly every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Covers the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arterio-venous malformations. Includes new chapters on bypass techniques in vascular disease, previously coiled aneurysms, CSF diversion procedures, surgical management of posterior fossa cystic and membranous obstruction, laser-ablation techniques, and brain stem tumors. Explores hot topics such as wide-awake surgery and ventriculo-peritoneal, ventriculoatrial and ventriculo-pleural shunts. Provides detailed visual guidance with more than 1,600 full-color illustrations and 50 procedural videos. Contains quick-reference boxes with surgical pearls and complications. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices. This book highlights the successful collaboration of plastic surgeons, neurosurgeons, and, in some cases, ENT, maxillofacial, oral, and oculoplastic surgeons, in treating some of the most complex craniofacial, skull-based, intracranial, and spinal problems. Beginning with the basic principles of wound

healing and flap rotation, you will find full discussions of craniofacial anomalies, skull base tumors, scalp closures, skull defects, management techniques for spinal dysraphism, and much more. Key features: Nearly 300 beautiful illustrations, most in full-color, effectively map out each procedure Updated with a thorough review of potential complications and how to avoid them Valuable procedural guidelines on the newest techniques for full calvarial and facial reconstructions, especially around the eyes, orbit, and midface region -Demonstrates MR and 3D imaging in surgical management of congenital malformations of the spine Discusses the role of ENT, maxillofacial, and oculoplastic procedures for optimal outcomes With a balanced combination of concepts followed by illustrated, step-by-step surgical techniques, here is the book that all neurosurgeons and plastic and reconstructive surgeons will use as both an everyday reference and a key addition to their surgical armamentariums. Residents preparing for boards will also find its succinct, straightforward coverage ideal for reviewing fundamental principles and surgical applications. 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. Neuro Spinal Surgery Operative Techniques - Anterior Cervical Discectomy and Fusion is the latest book in the Neuro Spinal Surgery Operative Techniques series. This book covers Anterior Cervical Discectomy and Fusion (ACDF) in eight concise

chapters. This surgical procedure involves decompressing the spinal cord and nerve roots in the neck. The first chapter covers the basic anatomy and approaches to ACDF, with illustrated guidance on microdiscectomy and bone grafting. Further chapters cover decompression of the nerve root and cord, interbody grafting technique, corpectomy and fusion, with the most current information on each procedure. The important technique of 'sinking' the graft in the disc space to prevent graft migration is covered in detail. The final chapter provides information on instruments used in ACDF procedures.

Neuro Spinal Surgery Operative Techniques - Anterior Cervical Discectomy and Fusion is enhanced by nearly 200 full colour images, making this an ideal quick reference guide for spine surgeons. Key Points Latest in Neuro Spinal Surgery Operative Techniques series Other topics in the series include Lateral Mass Fixation in Sub-axial Cervical Spine, and Cervical Laminoplasty 197 full colour images and illustrations This atlas of pediatric neurosurgery describes and demonstrates the spectrum of operations to treat the major disorders, including congenital malformations, hydrocephalus, tumors, vascular and functional disorders, and trauma. The chapters present state of the art techniques and are written by nationally recognized authorities. The text serves as a companion to Principles and Practice of Pediatric Neurosurgery. Over the last 18 years, there have been many advances in the field of intraoperative monitoring. This new edition of Neurophysiology in Neurosurgery: A Modern Approach provides updates on the original techniques, as well as other more recent methodologies that may either prove beneficial or are commonly used in neuromonitoring. The purpose of this book is to describe the integration of neuromonitoring with surgical procedures. Each methodology is discussed in detail as well as chapters describing how

those methodologies are applied to multiple surgical procedures and the evidence used to support those uses. The second edition features a surgical procedure section, which focuses on specific surgical procedures and the type of monitoring used during these procedures. The original chapters have been updated, expanded, and the structure modified to ensure the book is beneficial to both physiologists and surgeons. This book is written for neurosurgeons, neurophysiologists, neurologists, anesthesiologists, interventional neuroradiologists, orthopedic surgeons, and plastic surgeons. Provides a valuable educational tool that describes the theoretical and practical aspects of intraoperative monitoring through example Presents in-depth descriptions of the most advanced techniques in intraoperative neurophysiological monitoring and mapping Features a surgical procedures section that focuses on specific surgical procedures and the type of monitoring used during these procedures An indispensable, single-volume resource on state-of-the-art epilepsy procedures from renowned international experts! Epilepsy is a common neurological disorder affecting an estimated 1% of the population, about 20 to 30% of which experience seizures inadequately controlled by medical therapy alone. Advances in anatomic and functional imaging modalities, stereotaxy, and the integration of neuronavigation during surgery have led to cutting-edge treatment options for patients with medically refractory epilepsy. Operative Techniques in Epilepsy Surgery, Second Edition by Gordon Baltuch, Arthur Cukiert, and an impressive international group of contributors has been updated and expanded, reflecting the newest treatments for pediatric and adult epilepsy. Seven sections with 30 chapters encompass surgical planning, invasive EEG studies, cortical resection, intraoperative mapping, disconnection,

neuromodulation, and further topics. Twelve cortical resection chapters cover surgical approaches such as amygdalohippocampectomy; hippocampal transection; frontal lobe, central region, and posterior quadrant resections; and microsurgery versus endoscopy for hypothalamic hamartomas. Disconnection procedures discussed in section five include corpus callosotomy, hemispherectomy, and endoscopic-assisted approaches. Well-established procedures such as vagus nerve and deep brain stimulation are covered in the neuromodulation section, while the last section discusses radiosurgery for medically intractable cases. Key Highlights Chapters new to this edition include endoscopic callosotomy, laser-induced thermal therapy (LITT), and focused ultrasound High-quality illustrations, superb operative and cadaver photographs, radiologic images, and tables enhance understanding of impacted anatomy and specific techniques The addition of videos provides insightful step-by-step procedural guidance This is an essential reference for fellows and residents interested in epilepsy and functional neurosurgery, and an ideal overview for neurosurgeons, neurologists, and neuroradiologists in early career stages who wish to pursue this subspecialty.

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