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Rhoton's Atlas of Head, Neck, and Brain - Maria Peris-Celda 2017-12-13

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, 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 philosophy that every second of every day, a patient's life was improved by a surgeon assisted by the anatomic knowledge his lab helped elucidate and distribute. Rhoton's Atlas of Head, Neck, and Brain is the visually exquisite crowning achievement of Dr. Rhoton's brilliant career and unwavering dedication to the intertwined pursuits of surgical anatomy and neurosurgery. The atlas reflects the unparalleled contributions Dr. Rhoton made to the contemporary understanding of neurosurgical anatomy. Dr. Peris-Celda, with the collaboration of an impressive cadre of international multidisciplinary experts, worked closely under Dr. Rhoton's tutelage on this project. This book is the culmination of 5 years of work and experience gleaned from more than 40 years of surgical anatomy research and exquisite

dissection techniques performed in Dr. Rhoton's laboratory. Special Features Each anatomic dissection meticulously labeled with English and Latin descriptors for easy cross referencing with other resources. Multiple views of the most complex regions of the head, neck, and brain provide a deeper understanding of anatomy. More than 600 anatomical images systematically organized in four major sections: Osteology of the Head and Neck; Face and Neck; Ear, Nose, Pharynx, Larynx, and Orbit; and Neuroanatomy and Cranial Base. Superb 2D images presented in a large printed format to optimize the viewing experience. 3D digital images fully realize the beauty of the dissections and enhance the learning process. Specimens injected with colored silicone provide better visualization of arteries and veins. Breathtakingly stunning, this atlas is certain to be a treasured reference for medical students, residents, and clinicians specializing in neurosurgery, facial plastic surgery, otolaryngology, maxillofacial surgery, and craniofacial surgery for many years to come. *Schmidek and Sweet: Operative Neurosurgical Techniques 2-Volume Set* - Alfredo Quinones-Hinojosa, MD, FAANS, FACS 2012-06-22 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 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. With 337 additional expert contributors. Get procedural guidance on the latest neurosurgical operative techniques from Schmidek & Sweet on your shelf, laptop and mobile device.

Cavernous Malformations - Issam A. Awad 1993
The massive convergence of information about cavernous malformations has been synthesized in this volume by experts in the field of pathology, neuroradiology and neurosurgery. Cavernous Malformations represents state-of-the-art knowledge about this lesion and the spectrum of opinion about its nature, clinical behavior and management strategies. Highlights of Cavernous Malformations: Definition and pathologic features Epidemiology Diagnostic imaging Epilepsy Hemorrhage Conservative management Surgical intervention Microsurgical

treatments Spinal cavernous malformations Pediatrics Radiotherapy (Distributed by Thieme for the American Association of Neurological Surgeons)

Kempe's Operative Neurosurgery - Michael Salzman 2012-12-06

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

Neurological Surgery - Julian R. Youmans 1990

Essentials of Neuroanesthesia - Hemanshu Prabhakar 2017-03-24

Essentials of Neuroanesthesia offers useful insights on the anesthetic management of neurosurgical and neurologic patients. This book covers all topics related to neuroanesthesia, providing essential knowledge on the brain and spinal cord. Sections include chapters on anatomy, physiology, and pharmacology, along with specific chapters related to various neurosurgical and neurological problems and their anesthetic management. This book provides an understanding of related issues, such as palliative care, evidence based practice of neuroanesthesia, sterilization techniques, biostatistics, and ethical issues, and is useful for trainees, clinicians, and researchers in the fields of neurosurgery, neurocritical care, neuroanesthesia, and neurology. Offers useful insights on the anesthetic management of neurosurgical and neurologic patients Discusses related issues, such as palliative care, evidence based practice of neuroanesthesia, sterilization techniques, biostatistics, and ethical issues Useful for trainees, clinicians, and researchers in the fields of neurosurgery, neurocritical care, neuroanesthesia, and neurology

Neurosurgery Fundamentals - Nitin Agarwal 2018-10-22

The quintessential guide providing a one-stop roadmap to a neurosurgical career! Neurological surgery is a complex, highly selective specialty. For medical students and residents, navigating a huge array of neurosurgical information can be overwhelming. Neurosurgery Fundamentals by

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

Samii's Essentials in Neurosurgery - Ricardo Ramina 2007-10-24

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.

Rhoton's Cranial Anatomy and Surgical Approaches - Albert L. Rhoton, Jr. 2019-10-31
THE DEFINING WORK IN NEUROSURGERY, REISSUED FOR A NEW GENERATION OF TECHNICAL EXCELLENCE Cranial Anatomy and Surgical 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 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 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 safe. Across three sections, Cranial Anatomy and Surgical Approaches details the safest approaches to brain surgery, including: ♦ Micro-operative techniques and instrument selection ♦ Microsurgical 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 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 ♦ Supra- and infratentorial areas, including chapters on the cerebrum and cerebellum and their arteries and veins

Mulholland & Greenfield's Surgery - Justin B. Dimick 2021-06-04

Newly streamlined and focused on quick-access, easy-to-digest content, Mulholland and Greenfield's Surgery: Scientific Principles & Practice, 7th Edition, remains an invaluable resource for today's residents and practicing surgeons. This gold standard text balances scientific advances with clinical practice, reflecting rapid changes, new technologies, and innovative techniques in today's surgical care. New lead editor Dr. Justin Dimick and a team of expert editors and contributing authors bring a fresh perspective and vision to this classic reference.

Pediatric Hydrocephalus - G. Cinalli 2012-12-06
In the last ten years the pediatric neurosurgeon has witnessed a real revolution in the diagnosis and treatment of pediatric hydrocephalus, the most frequently encountered condition in everyday clinical practice. The evolution of MRI and the advent of neuroendoscopic surgery have resuscitated the interest in the classification, etiology and pathophysiology of hydrocephalus. The book offers an updated overview on the recent progress in this field, and a new approach to hydrocephalus: the reader will find in it a

modern and new presentation of an old disease, where genetics, endoscopy, cost-effectiveness analyses and many other aspects of the various therapies are extensively discussed. The volume will be useful not only for neurosurgeons, but for all specialists interested in the various aspects of hydrocephalus: pediatricians, radiologists, endocrinologists, pathologists and geneticists. [Youmans Neurological Surgery Pass Code](#) - H. Richard Winn 2003-12-19

Tap into all of the latest knowledge and expertise in your field ... in print and online! Both a user-friendly printed reference and a fully searchable web site, this e-edition of Dr. Winn's classic text gives you two fast ways to find expert solutions to the clinical challenges that arise in your practice. Regular updates online ensure that you'll always have access to the most current information! Equips you with state-of-the-art, evidence-based guidance to help you offer your patients the best possible outcomes. Includes more than 3100 (100 in full color) outstanding illustrations that show you exactly what to look for and how to proceed. Uses highly structured full-color page layouts inside the printed 4-volume set to make reference effortless. Offers rapid access to the answers you need via the fully searchable web site. Delivers regular updates online, overseen by the authors, to keep you continually apprised of important new clinical developments. Lets you download all of the book's illustrations for use in electronic presentations. Links references to the corresponding MEDLINE abstracts to simplify further research. Purchase of this product includes a limited personal license for use exclusively by the individual who has purchased the product. This license and access to the web site operates strictly on the basis of a single user per PIN. The sharing of passwords is strictly prohibited, and any attempt to do so will invalidate the password. The license and access may not be lent, resold, or otherwise circulated. Full details of the license and terms and conditions of use are available upon registration. Your purchase of Youmans Neurological Surgery Online, 5th Edition entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after

your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should online access to the web site be discontinued.

Neurosurgery Tricks of the Trade - Remi Nader 2019-04-05

A collection of core procedures for the spine surgeon... Neurosurgery Tricks of the Trade: Spine and Peripheral Nerves presents core surgical procedures in a concise, highly didactic format, enabling surgeons to quickly grasp their essence from the bulleted text and superb illustrations that accompany them. Expert neurosurgeons specializing in the spine and peripheral nerves describe how they perform common procedures and offer surgical tips and pearls. Key Features: Distills a wealth of information in a concise, step-by-step format, making it easy for neurosurgeons and other spine specialists to review how procedures are performed Includes more than 100 procedures focusing on the spine and peripheral nerves, each accompanied by high-quality, original illustrations Presents all procedures using a consistent outline and covers topics in either a pathology-based or an approach-based manner Surgeons at all levels, from residents learning procedures to experienced practitioners needing a quick refresher, will find this book and its companion volume, Neurosurgery Tricks of the Trade: Cranial, to be invaluable resources throughout their surgical careers. This book has been developed from Thieme eNeurosurgery, the world's most comprehensive neurosurgical resource online. For a free trial, go to: <http://thieme.com/eneurotrial>

Neurovascular Surgery - Eka J Wahjoepramono 2020-10-08

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 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 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. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Youmans and Winn Neurological Surgery - H. Richard Winn 2022-02-08

Widely regarded as the definitive reference in the field, *Youmans and Winn Neurological Surgery* offers unparalleled, multimedia coverage of the entirety of this complex specialty. Fully updated to reflect recent advances in the basic and clinical neurosciences, the 8th Edition covers everything you need to know about functional and restorative neurosurgery, deep brain stimulation, stem cell biology, radiological and nuclear imaging, and neuro-oncology, as well as minimally invasive surgeries in spine and peripheral nerve surgery, and endoscopic and other approaches for cranial procedures and cerebrovascular diseases. In four comprehensive volumes, Dr. H. Richard Winn and his expert team of editors and authors provide updated content, a significantly expanded video library, and hundreds of new video lectures that help you master new procedures, new technologies, and essential anatomic knowledge in neurosurgery. Discusses current topics such as diffusion tensor imaging, brain and spine robotic surgery, augmented reality as an aid in neurosurgery, AI and big data in neurosurgery, and neuroimaging in stereotactic functional neurosurgery. 55 new chapters provide cutting-edge information on Surgical Anatomy of the Spine, Precision Medicine in Neurosurgery, The Geriatric Patient, Neuroanesthesia During Pregnancy, Laser

Interstitial Thermal Therapy for Epilepsy, Fetal Surgery for Myelomeningocele, Rehabilitation of Acute Spinal Cord Injury, Surgical Considerations for Patients with Polytrauma, Endovascular Approaches to Intracranial Aneurysms, and much more. Hundreds of all-new video lectures clarify key concepts in techniques, cases, and surgical management and evaluation. Notable lecture videos include multiple videos on Thalamotomy for Focal Hand Dystonia and a video to accompany a new chapter on the Basic Science of Brain Metastases. An extensive video library contains stunning anatomy videos and videos demonstrating intraoperative procedures-more than 800 videos in all. Each clinical section contains chapters on technology specific for that particular clinical area. Each section contains a chapter providing an overview from experienced Section Editors, including a report on ongoing controversies within that subspecialty. 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.

Handbook of Neuro-Oncology Neuroimaging - Herbert B. Newton 2022-08-21

With treatment approaches and the field of neuro-oncology neuroimaging changing rapidly, this third edition of the *Handbook of Neuro-Oncology Neuroimaging* is very relevant to those in the field, providing a single-source, comprehensive, reference handbook of the most up-to-date clinical and technical information regarding the application of neuroimaging techniques to brain tumor and neuro-oncology patients. This new volume will have updates on all of the material from the second edition, and in addition features several new important chapters covering diverse topics such as imaging for the use of Laser Interstitial Thermal Therapy, advanced imaging techniques in radiation therapy, therapeutic treatment fields, response assessment in clinical trials, surgical planning of neoplastic disease of the spine, and more. Sections first overview neuro-oncological disorders before delving into the physics and basic science of neuroimaging and great focus on CT and MRI. The book then focuses on advances in the neuroimaging of brain tumors and neuroimaging of specific tumor types. There

is also discussion of neuroimaging of other neuro-oncological syndromes. This book will serve as a resource of background information to neuroimaging researchers and basic scientists with an interest in brain tumors and neuro-oncology. Summarizes translational research on brain imaging for brain tumors Discusses limitations of neuroimaging for diagnosis and treatment Presents advanced imaging technologies, including CT, MRI, and PET Contains new coverage on Laser Interstitial Thermal Therapy, radiation therapy, clinical trials, and more

Master Techniques in Otolarygologic Surgery: Skull Base Surgery - Carl Snyderman 2014-09-29

This new volume in the MTOS - Head and Neck Surgery Series edited by Eugene Myers, MD presents both the common and advanced procedures in skull base surgery and appeals to both the specialist and the generalist. It covers over 45 procedures and describes both open and minimally invasive approaches to the skull base. Key Features: Authors are world renowned experts in the field Comprehensive coverage of open and minimally invasive techniques Edited by pioneers and leaders in the development of the endoscopic endonasal approach Each chapter follows a tightly designed format with a focus on "how to do it" Includes step-by-step instructions for each procedure Each technique is extensively supplemented with over 1500 color intraoperative photographs and line drawings

Textbook of Clinical Neurology - Christopher G. Goetz, MD
MD 2007-09-12

Organized to approach patient problems the way you do, this best-selling text guides you through the evaluation of neurologic symptoms, helps you select the most appropriate tests and interpret the findings, and assists you in effectively managing the underlying causes. Its practical approach makes it an ideal reference for clinical practice. Includes practical, evidence-based approaches from an internationally renowned team of authors. Zeroes in on what you really need to know with helpful tables that highlight links between neurological anatomy, diagnostic studies, and therapeutic procedures. Offers a logical,

clinically relevant format so you can find the answers you need quickly. Features a new, updated design for easier reference. Includes new full-color images and updated illustrations to facilitate comprehension of important concepts. Features updated chapters on the latest genetic- and immunologic-based therapies, advances in pharmacology, and new imaging techniques. Includes an expanded and updated CD-ROM that allows you to view video clips of patient examinations, download all of the book's illustrations, and enhance exam preparation with review questions.

The Textbook of Spinal Surgery - Keith H. Bridwell 1991

Management of Cerebrovascular Disorders - Alejandro M. Spiotta 2019-03-06

This important title brings together a distinguished panel of thought-leaders, known for their insights into the development and application of minimally-invasive surgical and endovascular techniques, to provide a comprehensive and discerning compendium of our most current knowledge and state-of-the-art procedures in the management of cerebral vascular diseases. Written in a style that is accessible to students and experienced practitioners alike, the book covers all the important recent advances that have reshaped the field in dramatic ways. Emphasizing how surgical and endovascular techniques are complementary, the volume includes illuminating chapters on the nexus of endovascular and conventional "open" cerebrovascular surgery, including patient assessment and practice in a hybrid operating environment, utilizing the best methods to achieve optimal outcomes. A major addition to the clinical literature, Management of Cerebrovascular Disorders: A Comprehensive, Multidisciplinary Approach will be of significant interest to neurosurgeons, neurologists, neuroradiologists, neurointensivists, students, residents, fellows, and specialized attending physicians.

Fluorescence-Guided Neurosurgery -

Constantinos G. Hadjipanayis 2018-08-16

The definitive textbook on state-of-the-art fluorescence-guided neurosurgery Advances in fluorescence-guided surgery (FGS) have resulted

in a paradigm shift in neurosurgical approaches to neuro-oncological and cerebrovascular pathologies. Edited by two of the foremost authorities on the topic, *Fluorescence-Guided Neurosurgery: Neuro-oncology and Cerebrovascular Applications* encompasses the depth and breadth of this groundbreaking, still nascent technology. The book reflects significant contributions made by world renowned neurosurgeons Constantinos Hadjipanayis, Walter Stummer, and esteemed contributors on the growing uses of 5-aminolevulinic acid (5-ALA) and other FGS agents. The European Medicine Agency approved 5-ALA in 2007, heralding the birth of FGS globally. In 2017, the U.S. Food and Drug Administration approved 5-ALA (Gleolan) as an imaging agent to facilitate realtime detection and visualization of malignant tissue during glioma surgery. In the two decades since Dr. Stummer's initial description of 5-ALA FGS in a human patient, major strides have been made in its practical applications, leading to improved resection outcomes. As FGS is increasingly incorporated into neurosurgical practice, it holds promise for future innovations. Generously-illustrated and enhanced with online videos, this textbook is the definitive resource on the subject. Key Features The improved efficacy of 5-ALA for resecting high- and low-grade gliomas, recurrences, meningiomas, brain metastases, spinal cord tumors, pediatric brain tumors, and other adult tumors The future of fluorescence, including potentially powerful new fluorophores molecularly targeted specifically to tumors The use of the fluorescent agent indocyanine green (ICG) for brain tumors, cerebral aneurysms, AVMs, and cerebral vascularization Special topics such as fluorescein, illuminating tumor paint, confocal microscopy, Raman spectroscopy, and integrating FGS with intraoperative imaging and brain mapping This single accessible reference presents the current state-of-the-art on this emerging, exciting surgical technology. As such, it is a must-have for neurosurgical residents, fellows, and practicing neurosurgeons. [Youmans Neurological Surgery: Introduction to neurological surgery](#) - Julian R. Youmans 2004 The first of the four volumes introduces approaches to the patient, radiology fundamentals, perioperative evaluation and

treatment, and surgical exposures and positioning; and it covers oncology. The second volume covers vascular disease and malformations, and epilepsy; the third, functional neurosurgery, pain, and pediatric issues; and the fourth, the peripheral nerve, radiation therapy and radiosurgery, the spine, and trauma. Basic science, in most cases, is represented in its own chapter in each section, so as to make the rest of the section chapters more clinical in focus.

Harvey Cushing - Michael Bliss 2007-08-24 Here is the first biography to appear in fifty years of Harvey Cushing, a giant of American medicine and without doubt the greatest figure in the history of brain surgery. Drawing on new collections of intimate personal and family papers, diaries and patient records, Michael Bliss captures Cushing's professional and his personal life in remarkable detail. Bliss paints an engaging portrait of a man of ambition, boundless, driving energy, a fanatical work ethic, a penchant for self-promotion and ruthlessness, more than a touch of egotism and meanness, and an enormous appetite for life. Equally important, Bliss traces the rise of American surgery as seen through the eyes of one of its pioneers. The book describes how Cushing, working in the early years of the 20th century, developed remarkable new techniques that let surgeons open the skull, expose the brain, and attack tumors--all with a much higher rate of success than previously known. Indeed, Cushing made the miraculous in surgery an everyday event, as he and his team compiled an astonishing record of treating more than two thousand tumors. This is the definite Cushing biography, an epic narrative of high surgical adventure, capturing the highs and lows of an extraordinary life.

[Schmidek and Sweet: Operative Neurosurgical Techniques E-Book](#) - Alfredo Quinones-Hinojosa 2012-06-22

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.

Epidemiology of Brain and Spinal Tumors - Jahangir Moini 2021-04-16

Epidemiology of Brain and Spinal Tumors provides a single volume resource on imaging methods and neuroepidemiology of both brain and spinal tumors. The book covers a variety of imaging techniques, including computed tomography (CT), MRI, positron emission tomography (PET), and other laboratory tests used in diagnosis and treatment. Detailed epidemiology, various imaging methods, and clinical considerations of tumors of the CNS make this an ideal reference for users who will also find diverse information about structures and functions, cytology, epidemiology (including molecular epidemiology), diagnosis and treatment. This book is appropriate for neuroscience researchers, medical professionals and anyone interested in a complete guide to visualizing and understanding CNS tumors.

Provides the most up-to-date information surrounding the epidemiology, biology and imaging techniques for brain and spinal tumors, including CT, MRI, PET, and others Includes full color figures, photos, tables, graphs and radioimaging Contains information that will be valuable to anyone interested in the field of neurooncology and the treatment of patients with brain and spinal tumors Serves as a source of background information for basic scientists and pharmaceutical researchers who have an interest in imaging and treatment

Color Atlas of Brainstem Surgery - Robert F. Spetzler 2017-04-15

The highly complex specialty of brainstem surgery requires many years of study, a focus on precision, and a passionate dedication to excellence to prepare the neurosurgeon for navigating significant anatomic challenges. Although the brainstem is technically surgically accessible, its highly eloquent structure demands rigorous surgical decision-making. An in-depth understanding of brainstem and thalamic anatomy and the safe entry zones used to access critical areas of the brainstem is essential to traversing the brainstem safely and successfully. This remarkable, one-of-a-kind atlas draws on the senior author's decades of experience performing more than 1,000 surgeries on the brainstem, thalamus, basal ganglia, and surrounding areas. Its content is organized by anatomic region, enabling readers to study separate subdivisions of the brainstem, each of which has its own unique anatomic and surgical considerations. From cover to cover, the atlas provides readers with technical guidance on approach selection, the timing of surgery, and optimization of outcomes-elucidated by more than 1700 remarkable color illustrations, dissections, clinical images, and line drawings. Key Highlights Beautifully detailed, highly sophisticated brain slices and dissections by Kaan Yagmurlu, who trained under the internationally renowned neuroanatomist and neurosurgeon Albert Rhoton Jr. Color illustrations clearly labeled with callouts and other indicators of foci of interest delineate multiple safe entry zones to the brainstem More than 50 detailed patient cases highlight each patient's history of previous neurological disorders, presenting symptoms, preoperative

imaging, diagnosis, the planned surgical approach, patient positioning, intraoperative and postoperative imaging, and outcome. Seven animations and more than 50 surgical videos elucidate approach selection, anatomy, and surgical outcomes of thalamic region and brainstem lesions. This illuminating atlas provides insights into the complexities of the hallowed halls of the brainstem. Neurosurgeons and neurosurgical residents alike who glean knowledge from the clinical pearls throughout each section will no doubt become more adept surgeons, to the ultimate benefit of their patients.

Handbook of Neurosurgery - Mark S. Greenberg
1997-01-01

Youmans and Winn Neurological Surgery -

H. Richard Winn 2016-11-30

Dramatically updated to reflect recent advances in the basic and clinical neurosciences, *Youmans and Winn Neurological Surgery*, 7th Edition remains your reference of choice for authoritative guidance on surgery of the nervous system. Four comprehensive volumes thoroughly cover all you need to know about functional and restorative neurosurgery, (FRN)/deep brain stimulation (DBS), stem cell biology, radiological and nuclear imaging, and neuro-oncology, as well as minimally-invasive surgeries in spine and peripheral nerve surgery, endoscopic and other approaches for cranial procedures and cerebrovascular diseases. Seventy new chapters, an expanded video library, and revised content throughout help you master new procedures, new technologies, and essential anatomic knowledge. This unparalleled multimedia resource covers the entire specialty with the unquestioned guidance you've come to expect from the "Bible of neurological surgery." Each clinical section contains chapters on technology specific for that particular clinical area. 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. An expanded video library includes more than 300 videos with audio commentary, including 36 stunning anatomy videos, more than 100 videos demonstrating intra-operative procedures, and lectures that clarify key concepts. 70 new

chapters provide cutting-edge information on Surgical Anatomy of the Skull Base; Coagulation for the Neurosurgeon; Brain Retraction; Optogenetics and Clarity; Ablative Procedures for Parkinson's Disease; Nerve Transfers; Indications and Techniques of Revision Spine Surgery; Traumatic Brain Injury: Proteomic Biomarkers; Acute Surgical and Endovascular Management of Ischemic/Hemorrhagic Stroke; and many more. Thorough coverage of new techniques and approaches, including minimally-invasive surgeries in spine and peripheral nerve surgery, endoscopic approaches for cranial procedures, and stereotactic and robot-assisted surgery. Each section contains a new chapter providing an expert overview from experienced Section Editors, including a report on ongoing controversies within that subspecialty. Updates include expanded coverage of the basic science of CNS infections, increased content on radiology and anatomy, new chapters on various aspects of patient safety, new coverage of anti-coagulation therapy in the elderly, new skull base approaches, an overview of spinal biomechanics for all forms of spinal instrumentation, detailed coverage of intraoperative navigation, improved methods of tumor resection and the role of whole-brain radiotherapy, and much more. Reorganized content facilitates ease of navigation, so you can find what you need quickly. *Youmans* is "the" neurosurgical reference. It covers the entirety of the specialty and the editors and authors are unparalleled in their experience and expertise. *Perioperative Considerations and Positioning for Neurosurgical Procedures* - Adam Arthur
2018-03-02

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 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 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 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.

Principles of Neurological Surgery E-Book - Richard G. Ellenbogen 2017-12-13

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.

Ramamurthi and Tandon's Textbook of Neurosurgery - Prakash Narain Tandon 2012

Cranial Neuroimaging and Clinical Neuroanatomy - Hans-Joachim Kretschmann 2004

Cranial Neuroimaging and Clinical Neuroanatomy combines the highest standard of

graphic excellence with advanced information in a convenient format. Clinically relevant, easily readable, and clearly organized, this superbly illustrated book is an essential day-to-day tool for radiologists, neuroradiologists, neurosurgeons, and neurologists. It is also an exceptional overview of the field for medical students and residents.

Schmidek and Sweet: Operative Neurosurgical Techniques 2-Volume Set - Alfredo Quinones-Hinojosa 2021-05-03

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 arteriovenous 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.

Textbook of Traumatic Brain Injury, Third Edition - Jonathan M. Silver, M.D. 2018-12-05

New Techniques for Management of 'Inoperable' Gliomas - Michael E. Sughrue 2019-08-03

New Techniques for Management of 'Inoperable' Gliomas radically challenges the assumption that certain gliomas cannot be removed with modern techniques, contesting stereotypical thinking and establishing new paradigms in the field. Gliomas are primary brain tumors which are often fatal. Recent data has demonstrated that despite the fact that surgery cannot cure gliomas, patient survival is substantially improved by removing as much of the tumor as possible. This fact has raised the imperative that neurologists try to improve techniques to bring surgical resection to as many patients as possible. This book brings new insights and technologies to the forefront, giving hope to patients. Provides the first comprehensive book to discuss techniques for removing gliomas that are traditionally deemed 'inoperable' Presents a great reference tool that challenges stereotypical thinking by offering techniques by innovative surgeons Includes chapters that are organized by different glioma types and surgery/techniques

Core Techniques in Operative Neurosurgery E-Book - Rahul Jandial 2019-07-31

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 Transposas Interbody Fusion. Includes new chapters on Microvascular Decompression and Brachial Plexus Injury Nerve Grafting and Transfers.

Diagnosis and Surgical Treatment of

Epilepsy - Warren W. Boling 2019-01-09

This book is a printed edition of the Special Issue "Diagnosis and Surgical Treatment of Epilepsy" that was published in Brain Sciences *Plastic Surgery E-Book: 6 - Volume Set* - Peter C. Neligan 2012-08-21

Fully updated to meet the demands of the 21st-century surgeon, Plastic Surgery provides you with all the most current knowledge and techniques across your entire field, allowing you to offer every patient the best possible outcome. Edited by Drs. Mathes and Hentz in its last edition, this six-volume plastic surgery reference now features new expert leadership, a new organization, new online features, and a vast collection of new information - delivering all the state-of-the-art know-how you need to overcome any challenge you may face. Renowned authorities provide evidence-based guidance to help you make the best clinical decisions, get the best results from each procedure, avoid complications, and exceed your patients' expectations. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. Apply the very latest advances in every area of plastic surgery and ensure optimal outcomes with evidence-based advice from a diverse collection of world-leading authorities. Master the latest on stem cell therapy, tissue engineering, and inductive therapies • aesthetic surgical techniques and nonsurgical treatments • conjoined twin separation and other craniofacial surgery advances • microsurgical lymphatic reconstruction, super microsurgery, and sternal fixation • autologous lipofilling of the breast • nerve transfers in hand surgery, hand allotransplantation, and functional prosthetics • and much, much more. Easily find the answers you need with a new organization that features separate volumes covering Principles • Aesthetic • Craniofacial, Head and Neck Surgery • Lower Extremity, Trunk and Burns • Breast • and Hand and Upper Extremity, plus a more templated, user-friendly, high-yield presentation. Visualize procedures more clearly through an abundance of completely redrawn full-color illustrations and new color clinical photographs. Access the complete, fully searchable contents of each volume online, download all the tables and

figures, view 160 procedural videos, and take advantage of additional content and images at www.expertconsult.com!

Intraoperative Imaging - M. Necmettin Pamir
2010-10-20

Intraoperative imaging technologies have taken an ever-increasing role in the daily practice of neurosurgeons and the increasing attention and interest necessitated international interaction and collaboration. The Intraoperative Imaging Society was formed in 2007. This book brings together highlights from the second meeting of the Intraoperative Imaging Society, which took place in Istanbul-Turkey from June 14 to 17, 2009. Included within the contents of the book is an overview of the emergence and development of the intraoperative imaging technology as well as a glimpse on where the technology is heading. This is followed by in detail coverage of intraoperative MRI technology and sections on intraoperative CT and ultrasonography. There are also sections on multimodality integration, intraoperative robotics and other intraoperative technologies. We believe that this book will provide an up-to date and comprehensive

general overview of the current intraoperative imaging technology as well as detailed discussions on individual techniques and clinical results.

Neurosurgery Oral Board Review - Jonathan Stuart Citow 2003

The first work ever published on this topic, this book summarizes everything you need to know to prepare for the neurosurgery oral examinations. It was designed as a quick and easily accessible reference for residents, with sections on medical management, surgical techniques, and insights of how to study for the test. Key features: - Comprehensive and concise - key facts summarized in 220 pages - Straightforward organization for quick access and easy memorization of the most vital information - More than 70 illustrations to highlight core concepts - Helpful hints that give you the benefit of the author's experience Here is the convenient study guide that all neurosurgical residents will want available for reliable reference. No other resource is as concise and easy to use. Take advantage of this outstanding tool to ensure your success on the oral boards!