

Lasers In Neurosurgery Foundations Of Neurological Surgery 1st Edition By Robertson Jon H Published By Springer Hardcover

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[Learning and Career Development in Neurosurgery](#) - Ahmed Ammar
2022-09-24

The neurosurgical, surgical and medical training and practice models have to keep up with the technological revolution in the 21st Century as our lives changed on a swift base. Making bioethics and metacognition a cornerstone in medical education and practice will flourish our humane societies. Metacognition is thinking about one's thinking, to plan, monitor and assess one's understanding and performance. By adherence to medical ethics and Values-Based Medicine (VsBM) as guiding principles, we can develop benevolent medical practice. To enhance knowledge application, skills, and character qualities in realms beyond the immediate context in which they were learned. In this book, we developed a framework on how to evolve medical education and training by utilizing hi-tech. We divided the book into five principal components; Current and traditional root analysis of the learning process, Ethics and metacognition of education, learning and career development, Obstacles, difficulties and setbacks in learning and career development process,

Learning in the digital era, and Mentorship. The author believes we are entering a new era of information technology, which will have a significant impact on the education, sciences, strategies and philosophy. Therefore, in preparation for this colossal transformation, the author brings together the best brains in the neurosurgical field from around the globe. Twenty distinguished Professors of Neurosurgery and educators from Canada, the USA, Colombia, the UK, Italy, the Netherland, India, Japan, China, Rwanda, Egypt and Saudi Arabia gathered their experiences and thoughts in this book to shade light on an evolving world that will be the norm in near future.

Evaluation and Installation of Surgical Laser Systems - David B. Apfelberg
2012-12-06

The advent in the 1960s of the unique and exciting new form of energy called laser brought to medicine a marvelous tool that could accomplish new treatments of previously untreatable disorders as well as improved treatment of mundane problems. This brilliant form of light energy is many times more powerful than the energy of the sun yet can be focused

microscopically to spot sizes as small as 30 microns. Lasers can be directed into seemingly inaccessible areas by mirrors or fiberoptic cables or can be directly applied into sensitive areas such as the retina without damage to intervening structures. There has been a rapid proliferation in the use of lasers in all surgical specialties. Starting with bold ideas and experiments of "thought leaders" in each specialty, the application of lasers has evolved into commonplace usage. Beginning with the era when laser presentations and publications were an oddity, now nearly all specialty areas have whole sections of meetings or journals devoted exclusively to laser usage. Laser specialty societies within a specialty have developed and residency training programs routinely instruct trainees in laser techniques. Basic science and clinical experimentation has supported laser knowledge. Laser usage has also become international. Newer wavelengths and accessories have added to the armamentarium of laser usage. Despite the rapid growth in laser interest, no single source exists to instruct the many new laser users in proper, safe, and effective use of this new modality.

Child Neurology - Stephen Ashwal 2021-09-01

Child Neurology: Its Origins, Founders, Evolution and Growth, Second Edition updates the first biographical study of important contributors to the field of child neurology, consisting of over 250 biographical sketches written by over 100 physicians specializing in neurology, child neurology, pediatrics and obstetrics. Organized chronologically into six chapters, beginning before 1800 and continuing to the present, *Child Neurology* traces the emergence of child neurology as a separate specialty from its roots in pediatrics and neurology. With a definitive historical introduction by the editor, Dr. Stephen Ashwal. This new edition will feature a new section on *The Dynamic Growth and Expansion of Child Neurology: The Late Twentieth Century (1960 to 2000+)* and features about 138 new biographical sketches of leaders in the field during this recent time frame. *Child Neurology: Its Origins, Founders, Evolution and Growth, Second Edition* will be published on behalf of the Child Neurology Society, a professional society that strives to foster recognition and support for children with neurological disorders and to

promote and exchange national and international scientific research, education, and training in the field of neurology. Identifies top contributors to child neurology research from the 1800s to today Includes 238 biographical sketches of contributors and their scientific research Contains 138 new biographies on contributors from the late 20th and early 21st centuries Authored by physicians and published by the Child Neurology Society

Critical Care Medicine - Joseph E. Parrillo, MD, FCCM 2013-12-05

Take the best possible care of adult critical care patients with *Critical Care Medicine: Principles of Diagnosis and Management in the Adult!* Editors Dr. Joseph Parrillo and Dr. Phillip Dellinger, two of the most respected names in critical care medicine, combine their extensive knowledge with that of hundreds of top authorities in the field to bring you expert, state-of-the-art answers to any clinical question you may face in the intensive care unit. Offer your adult critical care patients the most effective care with practical, evidence-based guidance from many of the most trusted experts in critical care medicine. Learn from the best ICU specialists worldwide with contributions from an increased number of international authorities. Effectively manage common complications in the ICU with updated coverage of severe sepsis, septic shock, surgical infections, neurogenic and anaphylactic shock, severe heart failure, acute coronary syndromes, and Acute Respiratory Distress Syndrome. Access the complete contents online at Expert Consult, along with an image bank and instructional videos!

Malignant Brain Tumours - David G.T. Thomas 2012-12-06

Malignant Brain Tumours is an excellent compendium of current thought and practice for clinicians, surgeons, and scientists. Additionally, it is an invaluable reference for graduate and post-graduate students. This book could also be used as a very comprehensive teaching text.

Fundamentals of Neuroanesthesia - Keith J. Ruskin 2013-10

Fundamentals of Neuroanesthesia is a comprehensive guide to neuroanesthesia which focuses neurophysiology, neuroanatomy, and neurosurgical procedures, and then offers practical approaches to the practice of neurosurgical anesthesia.

Brain Injury - Amit Agrawal 2012-03-23

The present two volume book "Brain Injury" is distinctive in its presentation and includes a wealth of updated information on many aspects in the field of brain injury. The Book is devoted to the pathogenesis of brain injury, concepts in cerebral blood flow and metabolism, investigative approaches and monitoring of brain injured, different protective mechanisms and recovery and management approach to these individuals, functional and endocrine aspects of brain injuries, approaches to rehabilitation of brain injured and preventive aspects of traumatic brain injuries. The collective contribution from experts in brain injury research area would be successfully conveyed to the readers and readers will find this book to be a valuable guide to further develop their understanding about brain injury.

Pediatric TBI - Current State of the Art and Future Perspective - Elham Rostami 2021-03-24

Acoustic Neuroma - Ronald L. Gordner 1991

Cumulated Index Medicus - 1997

Neurosurgery and Global Health - Isabelle M. Germano 2022-01-03

This book is a combination of ideas and experiences from over 100 dedicated and brilliant neurosurgeons around the world. Their common goal is to provide data for a deeper understanding of the multi-faceted aspects of neurosurgery and, by doing so, to better serve patients across the globe. Scientific curiosity, deep dedication, incredible work ethics, entrepreneurship, and creativity are the common traits among all neurosurgeons, and not the exception. By allowing readers to see the field of neurosurgery from the perspectives of surgeons spanning five continents, this book serves to provide multiple, diverse viewpoints and to build a foundation for future collaborations. The book's 24 chapters are organized into 3 parts. Part I provides the reader with an overview of the role of neurosurgery in worldwide health care, its evolution over the past decades, the current state and future directions of each

neurosurgical subspecialty across the five continents. Over the years, the overarching goal for neurosurgeons has been to develop new, more effective and high-end solutions for complex diseases and to provide access to neurosurgical services for all patients. Part II discusses the differences and similarities of neurosurgery education and training across the globe, providing a snapshot of how new tools, technology, and paradigms reduce inequality and increase access to neurosurgical education. Educational accomplishments and challenges still present for the in different regions of the world are reviewed. Part III focuses on economic aspects influencing neurosurgery globally, including how to make efficient decisions in the face of scarcity, yet demand. The authors provide theories, models, and tools helpful to apply when planning to allocate resources, not just financial, but also human and intellectual. A deeper understanding of economics does not necessarily provide the answer to the problem; rather it provides the tools to find an answer, or, ideally, multiple possible solutions. Neurosurgery and Global Health is the first comprehensive guide to the role of neurosurgery in the global health care sphere, providing an in-depth compendium about the understanding of the neurosurgical role within global health, its efforts in the education of tomorrow's workforce, and the economic aspects driving the field.

Diode Lasers in Neurosurgery - François-Xavier Roux 1999

This book is the result of the authors' many years of experience in using neurosurgical lasers. They began using laser diodes in their speciality at the start of the 1990s, making them pioneers in the field. The first part of the book deals with the general physical bases and comparative bio-tissue effects of the various kinds of surgical laser, safety measures required and legislation concerning powerful lasers. The second part focuses on laser diodes alone. The authors describe in detail how they use them to operate on intracranial and intraspinal tumours, in intraventricular endoscopy, and in surgery involving epilepsy. Details are given of: technical data; the choice of parameters depending on how the lasers are used (contact and non-contact, and the type of lesion being operated on) as well as their indications in neurosurgery. The authors

emphasise the practical recommendations that make this book a valuable companion for current and potential users working in neurosurgery and other surgical applications. They also mention the new and future uses of laser diodes which are currently being developed and which show that this equipment really does represent a new generation of lasers. About 100 colour illustrations and tables are used to explain and underscore the authors' points.

Indianapolis Monthly - 2008-07

Indianapolis Monthly is the Circle City's essential chronicle and guide, an indispensable authority on what's new and what's news. Through coverage of politics, crime, dining, style, business, sports, and arts and entertainment, each issue offers compelling narrative stories and lively, urbane coverage of Indy's cultural landscape.

Surgical Neuro-Oncology - Russell R. Lonser 2018-11-09

Part of the Neurosurgery by Example series, this volume on surgical neuro-oncology presents exemplary cases in which renowned authors guide readers through the assessment and planning, decision making, surgical procedure, after care, and complication management of common and uncommon disorders. The cases explore a number of different types of nervous systems tumors, including glioblastoma, medulloblastoma, skull tumors, and more. Each chapter also contains 'pivot points' that illuminate changes required to manage patients in alternate or atypical situations, and pearls for accurate diagnosis, successful treatment, and effective complication management. Containing a focused review of medical evidence and expected outcomes, Surgical Neuro-Oncology is appropriate for neurosurgeons who wish to learn more about this subspecialty, and those preparing for the American Board of Neurological Surgery oral examination.

Functional Neurosurgery - Ahmed Raslan 2019-11-28

"Series Editor's Preface Dear Reader, I am delighted to introduce this volume of Neurosurgery by Example: Key Cases and Fundamental Principles. Neurosurgical training and practice are based on managing a wide range of complex clinical cases with expert knowledge, sound judgment, and skilled technical execution. Our goal in this series is to

present exemplary cases in the manner they are actually encountered in the neurosurgical clinic, hospital emergency department, and operating room. In this volume, Drs. Ahmed Raslan and Ashwin Viswanathan invited a broad range of expert contributors to share their extensive wisdom and experience in all major areas of functional neurosurgery. Each chapter contains a classic presentation of an important clinical entity, guiding readers through the assessment and planning, decision making, surgical procedure, after care, and complication management. 'Pivot points' illuminate the changes required to manage patients in alternate or atypical situations. Each chapter also presents lists of pearls for the accurate diagnosis, successful treatment, and effective complication management of each clinical problem. These three focus areas will be especially helpful to neurosurgeons preparing to sit for the American Board of Neurological Surgery oral examination, which bases scoring on these three topics. Finally, each chapter contains focused reviews of medical evidence and expected outcomes, helpful for counseling patients and setting accurate expectations. Rather than exhaustive reference lists, chapter authors provide focused lists of high priority additional reading recommended to deepen understanding. The resulting volume should provide you with a dynamic tour through the practice of functional neurosurgery, guided by some of the leading experts in North America. Additional volumes cover each subspecialty area of neurosurgery, using the same case-based approach and board review features. Nathan R. Selden, MD, PhD Campagna Professor and Chair Department of Neurological Surgery Oregon Health & Science University"--

Youmans and Winn Neurological Surgery - H. Richard Winn 2022-01-21 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 with more than 800 videos in all. Each clinical section contains chapters on technology specific to a clinical area. Each section contains a chapter providing an overview from experienced Section Editors, including a report on ongoing controversies within that subspecialty.

Key Concepts in MIN - Intracerebral Hemorrhage Evacuation - Klaus Dieter Maria Resch 2022-03-22

This book adds in chapter 1 and 2 the MIN-key techniques Laser and sealing, completing the 3 MIN-key techniques of the first volume. In chapter 3 the evolution of anatomy to a key-concept of MIN is described, presenting theory and reality of anatomical perspectives that can be used by the MIN-surgeon directly in the OR. Anatomy must be elaborated according to Gestalt-Theory to become a Key of MIN. Still anatomy is the

"House of Medicine", giving a mental place to all knowledge, theories and biological functions. The "surgical simulation concept" of chapter 4 as trainings environment follows, also as a key-concept of MIN. In this chapter we draw the line from Gestalt-Anatomy to a Surgical Simulation Application in Pathological Anatomy exemplified in aneurysm cases. Chapter 5 presents the best preservation technique of anatomical perishable matter, forming durable, dry and odorless specimen of unknown precision and beauty. The scientific value of this unique technique and the benefit for MIN are shown by many examples. With the Plastination gallery of chapter 6 the best head-plastinates and sheet-plastinates of head and brain complete the volume. Many of the specimen have been shown around the globe in the famous exhibitions "body worlds" (Prof. Dr. G. v. Hagens/Inventor of Plastination).

Lasers in Neurosurgery - Jon H. Robertson 1988-04-30

Developments in the field of instrumentation of innovative instrumentation. Although laser applications have permeated nearly every aspect are among the major contributions to human advancement. The history of surgery has seen of surgical therapy, the expectations have for many revolutionary developments cause quantum quently been unrealistic and the evaluation of leaps in progress. Electrocautery, the anesthesia technological development has always been machine, computed axial tomography, and the painfully slow. The properties of vaporization, surgical microscope are all revolutionary in coagulation, and cutting unified in an invisible struments that have irrevocably changed the shaft of light have enabled the neurosurgeon to direction of neurological surgery. vaporize inaccessible tumors of brain and spinal In the early stages of application, there are cord, harness recalcitrant bleeding sites, and cut always detractors and valid controversy concern through the most formidable calcified tumors. ing the value of a new instrument. Some will The application of this new energy form in remember those who argued that the magnifica tandem with the surgical microscope has, in my tion and illumination provided by the micro opinion, extended the scope of all aspects of scope were not valuable to the skilled surgeon neurosurgery. We have much more work to do. and

would prolong the operative time and in It is necessary to document improved results and crease infection rates. Others may recall that demand technological advances and safe inno Cushing was told to abandon the blood pressure vations.

Neurosurgery - Christiano B. Lumenta 2009-12-01

In a specialized field such as neurosurgery, highly specific knowledge is required. Training programs in the EU vary, making it difficult to standardize medical training. This manual forms the basis for a European consensus in neurosurgery. It is written for residents, students and physicians with a special interest in neurosurgery. Diagnostic and therapeutic procedures are detailed according to localization (cranial, spinal, peripheral nerves) with special consideration given to congenital defects and pediatric neurosurgical disorders, functional and stereotactic neurosurgery, as well as critical neurosurgical care. Each chapter contains the basics of anatomy and physiology. The book is well-organized and clearly structured according to each entity and its neurosurgical treatment options. A better understanding of specific neurosurgical problems will help practicing neurosurgeons provide better medical care for their patients, and will also provide the neurosurgery resident with a reliable European standard for step-by-step management of neurosurgical problems, which will prove useful when preparing for the board examination.

Lasers in Neurosurgery - Jon H. Robertson 2012-12-06

Developments in the field of instrumentation of innovative instrumentation. Although laser applications have permeated nearly every aspect are among the major contributions to human advancement. The history of surgery has seen of surgical therapy, the expectations have fre many revolutionary developments cause quantum quently been unrealistic and the evaluation of leaps in progress. Electrocautery, the anesthesia technological development has always been machine, computed axial tomography, and the painfully slow. The properties of vaporization, surgical microscope are all revolutionary in coagulation, and cutting unified in an invisible struments that have irrevocably changed the shaft of light have enabled the neurosurgeon to direction of

neurological surgery. vaporize inaccessible tumors of brain and spinal In the early stages of application, there are cord, harness recalcitrant bleeding sites, and cut always detractors and valid controversy concern through the most formidable calcified tumors. ing the value of a new instrument. Some will The application of this new energy form in remember those who argued that the magnifica tandem with the surgical microscope has, in my tion and illumination provided by the micro opinion, extended the scope of all aspects of scope were not valuable to the skilled surgeon neurosurgery. We have much more work to do. and would prolong the operative time and in It is necessary to document improved results and crease infection rates. Others may recall that demand technological advances and safe inno Cushing was told to abandon the blood pressure vations.

Applications of Fluorescence in Surgery and Interventional Diagnostics - Mark Preul 2021-06-04

Laser Interstitial Thermal Therapy in Neurosurgery - Veronica L. Chiang 2020-07-24

This book serves as a foundation for MRI guided laser interstitial thermal therapy (LITT) across neurosurgical diseases. It provides state-of-the-art information on the latest indications and results for LITT in CNS applications, as well as prerequisite historical perspective and technical fundamentals. Written by experts in the field, the text reviews the historical development of LITT, the technical and technological components required to perform LITT, its indications and contraindications, areas that still require investigation, LITT complications, and challenges to starting up LITT within one's practice. As early adopters of the technology, the authors provide sage advice that reflects the initial learning curves of many of the users. The book then concludes with a practical guide to starting up a LITT practice in the current medical socioeconomic environment. *Laser Interstitial Thermal Therapy in Neurosurgery* is a guide that will allow all neurosurgeons interested in LITT to successfully adopt the technology and incorporate its use seamlessly, safely and appropriately into their individual

practices.

Neurophotonics and Brain Mapping - Yu Chen 2017-06-14

Understanding how the brain works and developing effective therapeutics are important in advancing neuroscience and improving clinical patient care. Neurophotonics and Brain Mapping covers state-of-the-art research and development in optical technologies and applications for brain mapping and therapeutics. It provides a comprehensive overview of various methods developed using light, both microscopic and macroscopic techniques. Recent developments in minimally-invasive endoscopic imaging of deep brain structure and function, as well as light-based therapy are also reviewed.

Intraoperative Imaging - M. Necmettin Pamiir 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.

Brain Tumors E-Book - Andrew H. Kaye 2011-12-06

Meet the increasing need for effective brain tumor management with the highly anticipated revision of Brain Tumors by Drs. Andrew H. Kaye and Edward R. Laws. Over the past decade, enormous advances have been made in both the diagnosis and the surgical and radiotherapeutic management of brain tumors. This new edition guides you through the

latest developments in the field, including hot topics like malignant gliomas, functional brain mapping, neurogenetics and the molecular biology of brain tumors, and biologic and gene therapy. Benefit from the knowledge and experience of Drs. Andrew H. Kaye and Edward R. Laws, globally recognized experts in the field of neurosurgery, as well as many other world authorities.

Microneurosurgery - Mahmut Gazi Yaşargil 1984

Key Concepts in MIN - Intracerebral Hemorrhage Evacuation -

Klaus Dieter Maria Resch 2020-12-14

This is the first of four volumes that together elaborate on an advanced minimally invasive neurosurgery (MIN) technique for cerebral hemorrhages, which makes it possible to prevent secondary injury by the hematoma and to preserve neurological function and accelerate neuropsychological recovery after the evacuation. It describes in detail the theoretical, technical and training procedures necessary to carry out successful intracerebral hemorrhage evacuations using MIN techniques. A combination of mouth-tracked microsurgery, neuro-sonography, neuro-endoscopy, LASER and sealing makes highly effective, minimally invasive evacuation of all types of hematomas possible. The MIN Key Concept, an advanced new model based on the Keyhole Concept and MIN techniques is also presented. Lastly, the scientific basics of MIN are discussed and summarized. A historical curriculum vitae is included in memory of the main pioneer of innovative MIN techniques, Prof. Axel Perneczky, to whom this book is dedicated.

Current Catalog - National Library of Medicine (U.S.) 1985

First multi-year cumulation covers six years: 1965-70.

AACN-AANN Protocols for Practice: Monitoring Technologies in Critically Ill Neuroscience Patients - American Association of Critical-Care Nurses (AACN), 2008-08-14

AACN Protocols for Practice: Monitoring Neuroscience Patients provides clinicians at the point of care with the latest research findings in patient care in a format which is easy to understand and integrate into clinical practice. Each protocol guides clinicians in the appropriate selection of

patients, use and application of management principles, initial and ongoing monitoring, discontinuation of therapies or interventions, and selected aspects of quality control.

Neurological Surgery of the Ear - Mansfield F. W. Smith 1992

Featuring step-by-step descriptions of head and neck surgical procedures, the book aims to provide detailed information on indications, contraindications, preoperative considerations and preparations, patient monitoring, and possible complications and management of intraoperative emergencies.

Management of Childhood Brain Tumors - Melvin Deutsch 2012-12-06

In children, the central nervous system tumors complicated through advances in the three main areas are exceeded in incidence only by leukemia and antineoplastic therapeutic modalities—surgery, are more common than any of the other malignant radiation therapy, and chemotherapy. Improve chances of childhood. Childhood central nervous system tumors in neurosurgical technique concomitant system tumors encompass a range of histology with improvements in anesthesia and perioperative logic varieties from the histologically benign supportive care have resulted in decreased appearing pilocytic astrocytoma to the extremely morbidity and mortality from neurosurgical malignant-appearing glioblastoma multiforme procedures together with an increased likelihood of accomplishing a gross total resection of and the undifferentiated primitive neuroectodermal tumors. Similarly, the biologic behavior tumor. Radiotherapy has evolved from using orthovoltage (200-250 KV) equipment to of childhood brain tumors varies not only according to histology but also with location of supervoltage equipment with much-improved the tumor and age. Unlike primary central nervous system penetration, thus allowing for the administration of accurate homogeneous high doses to childhood brain tumors have the propensity to large volumes without significant effects on the disseminate via the cerebrospinal fluid path overlying skin and soft tissues. Preliminary data ways.

National Library of Medicine Current Catalog - National Library of Medicine (U.S.) 1983

Current Bibliographies in Medicine - 1988

Neurosurgical Anesthesia, An Issue of Anesthesiology Clinics -E-Book - Jeffrey R. Kirsch 2012-09-02

This issue of Anesthesiology Clinics provides essential updates in neurosurgical anesthesia. Topics include anesthesia for endovascular neurosurgery; interventional neuroradiology; neuroimaging; anesthetic management of patients with acute stroke; perioperative management of pediatric patients; anesthetic neurotoxicity; airway management in neuroanesthesiology; anesthetic considerations for awake craniotomy for epilepsy; perioperative uses of transcranial perfusion monitoring; monitoring and intraoperative management of elevated ICP and decompressive craniectomy; electrophysiologic monitoring in neurosurgery; traumatic brain injury; perioperative pain management in the neurosurgical patient; controversies in neurosciences critical care; sleep and mechanisms of anesthesia; and impacts on outcome after neuroanesthesia.

Intracranial Endoscopic Neurosurgery - David F. Jimenez 1998

In one book, the practitioner can obtain a solid foundation in the field of endoscopy as practiced by neurosurgeons. Included is a review of the physics and instrumentation of neuroendoscopic systems, comprehensive coverage of the anatomy upon which neuroendoscopic procedures are performed, and illustrations and text describing how endoscopic surgery can be used as an alternative to traditional surgery for such complex procedures as hematoma evacuation, abscess, and third ventriculocisternostomies. Avoiding and managing frequently encountered complications are thoroughly discussed. Intracranial Endoscopic Neurosurgery contains: The physics of neuroendoscopic systems and the instrumentation Neuroendoscopes and instruments Access to the ventricular system Anatomy for neurosurgical endoscopic procedures The use of endoscopes for shunt placement Third ventriculostomy Neuroendoscopic treatment of arachnoid cysts Endoscopic removal of colloid cysts Endoscopic management of complex hydrocephalus Endoscopy-Assisted craniotomy and microsurgery

Endoscopic transsphenoidal resection of stellar lesions (Distributed by Thieme for the American Association of Neurological Surgeons)

Health Informatics Vision: From Data via Information to

Knowledge - J. Mantas 2019-08-06

The latest developments in data, informatics and technology continue to enable health professionals and informaticians to improve healthcare for the benefit of patients everywhere. This book presents full papers from ICIMTH 2019, the 17th International Conference on Informatics, Management and Technology in Healthcare, held in Athens, Greece from 5 to 7 July 2019. Of the 150 submissions received, 95 were selected for presentation at the conference following review and are included here. The conference focused on increasing and improving knowledge of healthcare applications spanning the entire spectrum from clinical and health informatics to public health informatics as applied in the healthcare domain. The field of biomedical and health informatics is examined in a very broad framework, presenting the research and application outcomes of informatics from cell to population and exploring a number of technologies such as imaging, sensors, and biomedical equipment, together with management and organizational aspects including legal and social issues. Setting research priorities in health informatics is also addressed. Providing an overview of the latest developments in health informatics, the book will be of interest to all those working in the field.

Alexander's Care of the Patient in Surgery - E-Book - Jane C.

Rothrock 2022-07-01

Gain the knowledge and skills you need to provide safe, effective perioperative nursing care! Alexander's Care of the Patient in Surgery, 17th Edition is the definitive resource for nurses and surgical technologists training for a career in the operating room. Illustrated, step-by-step instructions cover patient care in more than 400 surgical interventions, including patient positioning, instrumentation, and postoperative care. Along with the latest on robotic surgery and a review of evidence-based guidelines, this edition includes new coverage of COVID-19 and gender affirmation surgery. From well-known educator

Jane C. Rothrock — and with every chapter authored by an expert nurse — Alexander's gives you the tools you need to pass the CNOR® certification exam and succeed in the surgical setting.

Laser Physics - S. MOHAN 2019-06-11

Basics of Lasers Types of Lasers Laser tissue Interaction Biomedical Applications Laser Safety Glossary References Index

Image-Guided Neurosurgery - Alexandra J. Golby 2015-05-05

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

Emergencies in Neurology - Mamta Bhushan Singh 2019-07-12

This is the second edition (in two volumes) of a well-received book that reflects current practices in the management of neurological emergencies. It was written bearing in mind the needs of first-contact physicians, who may be neurology trainees, neurology consultants, or interns. Special attention has been paid to various aspects of managing patients at the emergency department, from taking a good clinical

history, to completing a quick and focused clinical examination, to investigating and commencing treatment. Neurological emergencies are unique in that they appear abruptly, generally follow a volatile course, and require a prompt yet balanced response. The management of

neurological emergencies has been a major challenge in the past, and today, early and aggressive approaches are generally recommended. Exploring these and other aspects, the book offers a valuable asset for all practitioners seeking answers to the questions that inevitably arise while attempting to manage such critical situations.