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This comprehensive special supplement to Neurosurgery, the Official Journal of the Congress of Neurological Surgeons, documents the past thirty years' advances in surgery of the human cerebrum. The volume brings together new and archival articles by the world's foremost authorities to provide the most complete single source of information on contemporary cerebral surgery. Highlights include papers from Michael Apuzzo (History), Albert Rhoton (Anatomy), Chi-Shing Zee (Imaging), Alex Valadka (Trauma), Mitchel Berger (Intrinsic Tumors), Nobuo Hashimoto (Vascular Malformations), Johannes Schramm (Epilepsy), Walter Hall (Infections), Paolo Cappabianca (Endoscopy), James Drake (Pediatric Hydrocephalus), Marvin Bergsneider (Adult Hydrocephalus), Ali Rezai (Movement Disorders), Giovanni Broggi (Psychoaffective Disorders and Pain), Douglas Kondziolka (Stereotactic Radiosurgery), M. Gazi Yasargil (Intraventricular Tumors), Robert Spetzler (Giant Aneurysms), Laligam Sekhar (Revascularization), Peter Black (Extra Axial Lesions), Madjid Samii (Basal Lesions), L. Nelson Hopkins.
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**Surgery of the Human Cerebrum** - - 2008

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**Surgical Anatomy** - John Blair Deaver - 1904

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Another Day in the Frontal Lobe
- Katrina Firlik - 2007-06-12

Katrina Firlik is a neurosurgeon, one of only two hundred or so women among the alpha males who dominate this high-pressure, high-prestige medical specialty. She is also a superbly gifted writer—witty, insightful, at once deeply humane and refreshingly wry. In Another Day in the Frontal Lobe, Dr. Firlik draws on this rare combination to create a neurosurgeon's Kitchen Confidential—a unique insider's memoir of a fascinating profession. Neurosurgeons are renowned for their big egos and aggressive self-confidence, and Dr. Firlik confirms that timidity is indeed rare in the field. “They’re the kids who never lost at musical chairs,” she writes. A brain surgeon is not only a highly trained scientist and clinician but also a mechanic who of necessity develops an intimate, hands-on familiarity with the gray matter inside our skulls. It’s the balance between cutting-edge medical technology and manual dexterity, between instinct and expertise, that Firlik finds so appealing—and so difficult to master. Firlik recounts how her background as a surgeon’s daughter with a strong stomach and a keen interest in the brain led her to this rarefied specialty, and she describes her challenging, atypical trek from medical student to fully qualified surgeon. Among Firlik’s more memorable cases: a young roofer who walked into the hospital with a three-inch-long barbed nail driven into his forehead, the result of an accident with his partner’s nail gun, and a sweet little seven-year-old boy whose untreated earache had become a raging, potentially fatal infection of the brain lining. From OR theatrics to thorny ethical questions, from the surprisingly primitive tools in a neurosurgeon’s kit to glimpses of future techniques like the “brain lift,” Firlik cracks open medicine’s most prestigious and secretive specialty. Candid, smart, clear-eyed, and unfailingly engaging, Another Day in the Frontal Lobe is a mesmerizing behind-the-scenes glimpse into a world of incredible
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signals are conveyed in the brain. The competition and incalculable rewards.

**Discovering the Brain** - National Academy of Sciences - 1992-01-01
The brain There is no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In Discovering the Brain, science writer Sandra Ackerman cuts through the complexity to bring this vital topic to the public. The 1990s were declared the "Decade of the Brain" by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. Discovering the Brain is based on the Institute of Medicine conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research. Discovering the Brain is a "field guide" to the brain--an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie. Ackerman examines How electrical and chemical mechanisms by which we see, hear, think, and pay attention--and how a "gut feeling" actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain throughout the life span, with a look at the aging brain. Ackerman provides an enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the potential for major advances during the "Decade of the Brain," with a look at medical imaging techniques--what various technologies can and cannot tell us--and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers--and many scientists as well--with a helpful guide.
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"The human brain is a powerful organ. There's so much we don't know about how it works; what we do know is astounding. For example, information in your brain can move as fast as 265 miles (425 km) per hour, faster than a racecar. This truly entertaining and informative volume is full of fascinating facts about the human brain for the brain surgeons of tomorrow. They'll learn how we know about the brain, what we're trying to learn, and even the basics of neurosurgery, preparing them to be the scientists and doctors who will crack the mysteries of the human brain."

Gareth's Guide to Becoming a Brain Surgeon
- Joan Stoltman - 2017-07-15

Benign Cerebral Glioma - Michael L. J. Apuzzo - 1995
Benign Cerebral Glioma, Volume I is a valuable text which looks at the rapidly expanding, multidisciplinary body of knowledge about the development, molecular biology, molecular genetic and pathology of human cerebral gliomas. This generously illustrated text is written and edited by recognized experts in the...

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**Frontal Lobe: The Neurobiology of the Cerebral and Prefrontal Cortex in the Human Brain** - Martin Howard - 2019-01-16

Get familiar with the function of the frontal lobe. You will learn the difference between this lobe, the prefrontal cortex, and the cerebral cortex. Additionally, subtopics will be covered, such as: Damage to the frontal lobe and its effects. Treatment for damage and its risks. The division between the different areas or regions in the frontal lobe. What surgery does. Different theories from analysts and experts. How the prefrontal cortex forms connections in the human brain.
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- What surgery does
- Different theories from analysts and experts
- How the prefrontal cortex forms connections in the human brain from the senses to the cerebrum and vice versa
- Background of the prefrontal cortex related to clinical studies

All you need to know about this topic, can be found in this concise guide. So click on the buy button now.

The Human Brain - William Bevan Lewis - 1882

Olfactory memory networks: from emotional learning to social behaviors - Regina M. Sullivan - 2015-05-08

Odors are powerful stimuli that can evoke emotional states, and support learning and memory. Decades of research have indicated that the neural basis for this strong “odor-emotional memory” connection is due to the uniqueness of the anatomy of the olfactory pathways. Indeed, unlike the other sensory systems, the sense of smell does not pass through the thalamus to be routed to the cortex. Rather, odor information is relayed directly to the limbic system, a brain region typically associated with memory and emotional processes. This provides olfaction with a unique and potent power to influence mood, acquisition of new information, and use of...
the relatively conserved organization of the social interactions. Indeed, olfaction is crucially involved in behaviors essential for survival of the individual and species, including identification of predators, recognition of individuals for procreation or social hierarchy, location of food, as well as attachment between mating pairs and infant-caretaker dyads. Importantly, odors are sampled through sniffing behavior. This active sensing plays an important role in exploratory behaviors observed in the different contexts mentioned above. Odors are also critical for learning and memory about events and places and constitute efficient retrieval cues for the recall of emotional episodic memories. This broad role for odors appears highly preserved across species. In addition, the consistent early developmental emergence of olfactory function across diverse species also provides a unique window of opportunity for analysis of myriad behavioral systems from rodents to nonhuman primates and humans. This, when combined with the relatively conserved organization of the social interactions. Indeed, olfaction is crucially involved in behaviors essential for survival of the individual and species, including identification of predators, recognition of individuals for procreation or social hierarchy, location of food, as well as attachment between mating pairs and infant-caretaker dyads. Importantly, odors are sampled through sniffing behavior. This active sensing plays an important role in exploratory behaviors observed in the different contexts mentioned above. Odors are also critical for learning and memory about events and places and constitute efficient retrieval cues for the recall of emotional episodic memories. This broad role for odors appears highly preserved across species. In addition, the consistent early developmental emergence of olfactory function across diverse species also provides a unique window of opportunity for analysis of myriad behavioral systems from rodents to nonhuman primates and humans. This, when combined with the olfactory system in mammals, provides a powerful framework to explore how complex behaviors can be modulated by odors to produce adaptive responses, and to investigate the underlying neural networks. The present research topic brings together cutting edge research on diverse species and developmental stages, highlighting convergence and divergence between humans and animals to facilitate translational research.

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**Anatomy of the Brain Anatomical Chart**

Anatomical Chart Company - 2004-05-01
Anatomy of the Brain with illustrations by renowned medical illustrator Keith Kasnot is one of our most popular charts. Beautiful, clear
Illustrations make the structures of the brain come alive. All illustrations are clearly labeled and vividly colored. Illustrations include: Central image showing major structures, cerebral hemispheres and key cranial nerves. Arteries of the Brain (base and right side views). Venous Sinuses. Lobes of the brain. Cross-section of meninges & venous sinuses. Typical nerve and glial cells. Circulation of cerebrospinal fluid. Made in the USA. Available in the following versions: 20" x 26" heavy paper laminated with grommets at top corners ISBN 9781587790898. 20" x 26" heavy paper ISBN 9781587790904.

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**Mr. Humble and Dr. Butcher** - Brandy Schillace - 2021-03-02

The mesmerizing biography of a brilliant and eccentric surgeon and his quest to transplant the human soul. In the early days of the Cold War, a spirit of desperate scientific rivalry birthed a different kind of space race: not the race to outer space that we all know, but a race to master the inner space of the human body. While surgeons on either side of the Iron Curtain competed to become the first to transplant organs like the kidney and heart, a young American neurosurgeon had an even more ambitious...
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**Neck, mouth, pharynx, larynx, nose, orbit, eyeball, organ of hearing, brain, male perineum, female perineum** - John Blair Deaver - 1900

**Biomechanics of the Brain** - Karol Miller - 2019-08-08
This new edition presents an authoritative

biomechanics research for engineers, scientists
and medical professionals. Since the first edition
in 2011, this topic has unquestionably entered
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The book brings together leading scientists in the
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Peripheral Nerve Surgery - Dr Thomas Wilson -

Part of the Neurosurgery by Example series, this volume on peripheral nerve disorders 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 are divided into four distinct areas of peripheral nerve pathology: entrapment and inflammatory neuropathies, peripheral nerve pain syndromes, peripheral nerve tumors, and peripheral nerve trauma. 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, Peripheral Nerve Surgery is appropriate for neurosurgeons who wish to learn more about this subspecialty, and those preparing for the
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**Benzel's Spine Surgery E-Book** - Michael P Steinmetz - 2021-05-18
Written and edited by world-renowned experts in the field, Benzel’s Spine Surgery: Techniques, Complication Avoidance and Management, 5th Edition, provides expert, step-by-step guidance on the evaluation and management of disorders of the spine. This definitive, two-volume work explores the full spectrum of techniques used in spine surgery, giving you the tools you need to hone your skills and increase your knowledge in this challenging area. Clearly organized and extensively revised throughout, it features contributions from both neurosurgeons and orthopaedic surgeons to present a truly comprehensive approach to spine disease. Offers a thorough overview of the effective management...
complex lumbosacropelvic fixation techniques, fundamental principles, biomechanics, applied anatomy, instrumentation, pathophysiology of spinal disorders, surgical techniques, motion preservation strategies, non-surgical management, and complication avoidance and management, as well as controversies. Focuses on both pathophysiology and surgical treatment of spine disease, with an increased emphasis on minimally invasive surgery. Contains new features such as key points boxes at the beginning of chapters and algorithms to help streamline the decision making process. Covers today’s hot topics in spine surgery, such as health economics, artificial intelligence, predictive analytics, new less invasive techniques including endoscopic spine surgery, and the future of spine surgery. Provides expert coverage of key topics including biomechanics of motion preservation techniques, spinal injuries in sports, biologics in spine fusion surgery, anterior subaxial cervical fixation and fusion techniques, and many more. Features more than 1,500 high-quality illustrations, as well as new procedural videos on en bloc spondylectomy, minimally invasive endoscopic posterior cervical foraminotomy, cervical total disc replacement, minimally invasive lumbar decompression of stenosis, and more.

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**Spine Surgery 2-Vol Set E-Book** - Edward C. Benzel - 2012-05-14
Build a solid foundation of knowledge based on the fundamentals and employ step-by-step instruction from Spine Surgery. Edited by Edward C. Benzel, this best-selling medical reference explores the full spectrum of surgical techniques used in spine surgery and delivers the comprehensive, cutting-edge guidance you need to achieve successful outcomes. Online access, thorough updates, contributions by leading
neurosurgeons and orthopedic surgeons - many
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provide everything you need to avoid and
manage complex problems. Glean essential, up-
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with intraoperative videos and more than 800
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technique step by step. Grasp and apply the
latest knowledge from more than 25 brand-new
chapters, as well as extensive revisions or total
rewrites to the majority of existing chapters to
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available on every aspect of spine surgery
including motion preservation technologies,
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psychosocial interactions, biomechanics, and
more. Consult with the best. Renowned
neurosurgery authority Edward C. Benzel leads
an international team of accomplished
new to this edition - who provide dependable
guidance and share innovative approaches to
surgical techniques and complications
management. Equip yourself to address
increasing occurrences of pain among aging and
physically active patients. Access the information
you need, where you need it on your laptop or
mobile device via expertconsult.com, with fully
searchable text, a wealth of procedural videos,
online updates from the experts, downloadable
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**Comprehensive Management of Arteriovenous Malformations of the Brain and Spine** - Robert F. Spetzler - 2015-01-08

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

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Surgery of the Brain and Spinal Cord - Fedor Krause - 1912

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Human Anatomy - Alina Maria Sisu - 2017-11-21
"Anatomia clavus et clavis medicinae est." Anatomy is a fundamental science that studies the structure of the human body from ancient times. Over time, the discipline constantly expands with recent progress that has been produced in researching the human body. So, new methods of researching were incorporated in the anatomy development: plastic materials injections, plastination, computed techniques of sectional bodies, and embryoology. Anatomic sections like macroscopic, mesoscopic, microscopic, and public anatomies; radiologic anatomy; computed anatomy; radiologic anatomies; and clinical anatomy contribute to realize a very complex discipline that represents the base of learning medicine.
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**Surgery of the brain and spinal cord v.2, 1912** - Fedor Krause - 1912

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**The Cerebral Circulation** - Marilyn J. Cipolla - 2016-07-28

This e-book will review special features of the cerebral circulation and how they contribute to the physiology of the brain. It describes structural and functional properties of the cerebral circulation that are unique to the brain, an organ with high metabolic demands and the need for tight water and ion homeostasis. Autoregulation is pronounced in the brain, with myogenic, metabolic and neurogenic mechanisms contributing to maintain relatively constant blood pressure. In addition, unlike peripheral organs where the majority of vascular resistance resides in small arteries and arterioles, large extracranial and intracranial arteries contribute significantly to vascular resistance in the brain. The prominent role of large arteries in cerebrovascular resistance helps maintain blood flow and protect downstream vessels during changes in perfusion pressure. The cerebral endothelium is also unique in that its barrier properties are in some way more like epithelium than endothelium in the periphery. The cerebral endothelium, known as the blood-brain barrier, has specialized tight junctions that do not allow ions to pass freely and has very low hydraulic conductivity and transcellular transport. This special configuration modifies Starling's forces in the brain microcirculation such that ions retained in the vascular lumen oppose water movement due to hydrostatic pressure. Tight water regulation is necessary in the brain because it
The prominent role of large arteries in skull. Increased intracranial pressure due to vasogenic edema can cause severe neurologic complications and death.

**The Cerebral Circulation** - Marilyn J. Cipolla - 2016-07-28
This e-book will review special features of the cerebral circulation and how they contribute to the physiology of the brain. It describes structural and functional properties of the cerebral circulation that are unique to the brain, an organ with high metabolic demands and the need for tight water and ion homeostasis. Autoregulation is pronounced in the brain, with myogenic, metabolic and neurogenic mechanisms contributing to maintain relatively constant blood flow during both increases and decreases in pressure. In addition, unlike peripheral organs where the majority of vascular resistance resides in small arteries and arterioles, large extracranial and intracranial arteries contribute significantly to vascular resistance in the brain.

Cerebrovascular resistance helps maintain blood flow and protect downstream vessels during changes in perfusion pressure. The cerebral endothelium is also unique in that its barrier properties are in some way more like epithelium than endothelium in the periphery. The cerebral endothelium, known as the blood-brain barrier, has specialized tight junctions that do not allow ions to pass freely and has very low hydraulic conductivity and transcellular transport. This special configuration modifies Starling's forces in the brain microcirculation such that ions retained in the vascular lumen oppose water movement due to hydrostatic pressure. Tight water regulation is necessary in the brain because it has limited capacity for expansion within the skull. Increased intracranial pressure due to vasogenic edema can cause severe neurologic complications and death.

A unique resource on glioma leverages advances and firsthand insights to enact meaningful change. Glioblastoma (GBM) or glioma is an extremely aggressive and malignant brain tumor, with cell infiltration, rapid invasion, and a high frequency of relapse. The Glioma Book by neurosurgeon Michael Sughrue is a highly personal book — a culmination of two years of writing and more than 1,000 surgeries. It presents a unique viewpoint with the potential to transform the traditional paradigm that too often informs treatment of this universally fatal brain tumor. The book reinterprets the role of the cerebrum and sub-cortex, leverages scientific advances to improve cytoreduction and reduce neurological deficits, and challenges the myth of the "inoperable" glioma. This is the first step-by-step technical guide focused on aggressively resecting different types of gliomas. The book is logically organized, starting with a foundation of fundamental knowledge, then progressing to practical applications. Chapters focus on the specific techniques, and systematic approaches to gliomas in different brain regions. Numerous case examples illuminate concepts introduced earlier in the book and explain how to perform these procedures. About 30 high quality videos posted online provide insightful procedural guidance. The role of connectomic imaging in visualizing the cerebrum, and other innovative techniques including awake brain mapping and diffusion tensor tractography. Neurosurgeons who embrace the concepts in this book will realize they can change the glioma treatment paradigm. Continually improving techniques and viewing a glioma diagnosis as a battle for a patient's life, rather than an exercise in inevitable failure can impart progress in treating this devastating disease.

The Glioma Book - Michael E. Sughrue - 2019-10-25
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Annals of Surgery - 1907

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Brain Neurotrauma - Firas H. Kobeissy - 2015-02-25
Every year, an estimated 1.7 million Americans sustain brain injury. Long-term disabilities impact nearly half of moderate brain injury survivors and nearly 50,000 of these cases result in death. Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects provides a comprehensive and up-to-date account on the latest developments in the area of neurotrauma, including brain injury pathophysiology, biomarker research, experimental models of CNS injury, diagnostic methods, and neurotherapeutic interventions as well as neurorehabilitation strategies in the field of neurotrauma research. The book includes several sections on neurotrauma mechanisms, biomarker discovery, neurocognitive/neurobehavioral deficits, and neurorehabilitation and treatment approaches. It also contains a section devoted to models of mild CNS injury, including blast and sport-related injuries. Over the last decade, the field of neurotrauma has witnessed significant advances, especially at the molecular, cellular, and behavioral levels. This progress is largely due to the introduction of novel techniques, as well as the development of new animal models of central nervous system (CNS) injury. This book, with its diverse coherent content, gives you insight into the diverse and heterogeneous aspects of CNS pathology and/or rehabilitation needs.

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**The Edinburgh Medical and Surgical Journal**

- - 1866

**Conn's Translational Neuroscience** - P. Michael Conn - 2016-09-28

Conn’s Translational Neuroscience provides a comprehensive overview reflecting the depth and breadth of the field of translational neuroscience, with input from a distinguished panel of basic and clinical investigators. Progress has continued in understanding the brain at the molecular, anatomic, and physiological levels in the years following the 'Decade of the Brain,' with the results providing insight into the underlying basis of many neurological disease processes. This book alternates scientific and clinical chapters that explain the basic science underlying neurological processes and then relates that science to the understanding of neurological disorders and their treatment. Chapters cover disorders of the spinal cord, neuronal migration, the autonomic nervous system, the limbic system, ocular motility, and the basal ganglia, as well as demyelinating
great resource for researchers and practitioners
cognition, congenital chromosomal and genetic
abnormalities, Parkinson's disease, nerve
trauma, peripheral neuropathy, aphasias, sleep
disorders, and myasthenia gravis. In addition to
concise summaries of the most recent
biochemical, physiological, anatomical, and
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current findings on neuronal gene expression
and protein synthesis at the molecular level.
Authoritative and comprehensive, Conn’s
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level, while also clearly demonstrating their neuronal migration, the autonomic nervous system, the limbic system, ocular motility, and the basal ganglia, as well as demyelinating disorders, stroke, dementia and abnormalities of cognition, congenital chromosomal and genetic abnormalities, Parkinson's disease, nerve trauma, peripheral neuropathy, aphasias, sleep disorders, and myasthenia gravis. In addition to concise summaries of the most recent biochemical, physiological, anatomical, and behavioral advances, the chapters summarize current findings on neuronal gene expression and protein synthesis at the molecular level. Authoritative and comprehensive, Conn’s Translational Neuroscience provides a fully up-to-date and readily accessible guide to brain functions at the cellular and molecular level, as well as a clear demonstration of their emerging diagnostic and therapeutic importance. Provides a fully up-to-date and readily accessible guide to brain functions at the cellular and molecular level, while also clearly demonstrating their emerging diagnostic and therapeutic importance.

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Cerebrovascular Bibliography - - 1967-07

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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
dissection techniques performed in Dr. Rhoton's 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 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,
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**The Brain That Changes Itself** - Norman Doidge - 2007-03-15

“Fascinating. Doidge’s book is a remarkable and hopeful portrait of the endless adaptability of the human brain.”—Oliver Sacks, MD, author of The Man Who Mistook His Wife for a Hat What is neuroplasticity? Is it possible to change your brain? Norman Doidge’s inspiring guide to the new brain science explains all of this and more. An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they’ve transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.
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Control, Computer Engineering and Neuroscience - Szczepan Paszkiel - 1901
This book presents the proceedings of the 4th International Scientific Conference IC BCI 2021 Opole, Poland. The event was held at Opole University of Technology in Poland on 21 September 2021. Since 2014, the conference has taken place every two years at the University’s Faculty of Electrical Engineering, Automatic Control and Informatics. The conference focused on the issues relating to new trends in modern...
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**Intensive Care in Neurology and Neurosurgery** - Daniel Agustin Godoy - 2013-03-01

Neuromonitoring is the tool of trade in intensive care, and should incorporate cutting edge technology with patience, repeated clinical observation, careful identification of neuroworsening. The aim of the book is to be of practical use, and to assist the clinical practice of the busy physician. The clinical examination belongs to the introductory section of the book, and an abundance of technology, with specific emphasis on the importance of intracranial pressure, comes in the following parts. Since the patient with an injured brain can have chances only if other organs and systems (as the lungs, and the acid-base equilibrium etc.) are preserved, a section of the book covers the interactions between the affected brain and other
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also mentions new-comers, as the specific problems related to the expanding field of neuroradiological interventions. Finally, neurointensive care does not exist without knowledgeable nurses. The intracranial pressure measurement starts (or unfortunately ends) with a catheter well maintained, and that becomes vital when the drainage of hydrocephalus is concerned. Dealing with patients with severe brain damage has plenty of ethical implications, up to the problems related to brain death and organ donation. This book is published in two volumes.

**How the Brain Evolved Language** - Donald Loritz - 1999

Loritz here addresses fundamental questions about language, cognition, and the human brain. He traces how certain features of the brain evolved to perform communication functions, then shows how those features developed into designs for human language. Loritz's unified explanation of language in the brain contradicts directly the theory of innateness proposed by, among others, Chomsky and Pinker.


editors have built Issues in Neurological Surgery and Specialties: 2013 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

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Reaching Down the Rabbit Hole - Allan H. Ropper - 2014-09-30
A top neurologist explains the difficulty of diagnosing brain diseases through such cases as
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