Demystifying the Brain V. Srinivasa Chakravarthy 2018-12-07 This book presents an emerging new vision of the brain, which is essentially expressed in computational terms, for non-experts. As such, it presents the fundamental concepts of neuroscience in simple language, without overwhelming non-biologists with excessive biological jargon. In addition, the book presents a novel computational perspective on the brain for biologists, without resorting to complex mathematical equations. It addresses a comprehensive range of topics, starting with the history of neuroscience, the function of the individual neuron, the various kinds of neural network models that can explain diverse neural phenomena, sensory-motor function, language, emotions, and concluding with the latest theories on consciousness. The book offers readers a panoramic introduction to the “new brain” and a valuable resource for interdisciplinary researchers looking to gatecrash the world of neuroscience. 

BRS Neuroanatomy Douglas J. Gould 2019-05-20 This powerful, easy-to-use resource—available in print and e-book format—presents the essentials of neuroanatomy in the popular Board Review Series outline format that highlights the most tested topics for the USMLE Step 1. Packed with concise descriptions, clinical correlation boxes, radiographs, full-color illustrations and over 575 board-style questions with complete answers and explanations, BRS Neuroanatomy, Sixth Edition provides everything needed for course success and board exam prep.

The Embryonic Human Brain Ronan R. O'Rahilly 2006-09-18 Radiology Fundamentals Harij Singh 2011-12-02 Radiology Fundamentals is a concise introduction to the dynamic field of radiology for medical students, non-radiology house staff, physician assistants, nurse practitioners, radiology assistants, and other allied health professionals. The goal of the book is to provide readers with general examples and brief discussions of basic radiographic principles and to serve as a curriculum introduction to the dynamic field of radiology for medical students, non-radiology house staff, physician assistants, nurse practitioners, radiology assistants, and other allied health professionals. The main scope of the book is to present concise chapters organized by anatomic region and radiology sub-specialty that highlight the radiologist's role in diagnosing and treating common diseases, disorders, and conditions. Highly illustrated with images and diagrams, each chapter in Radiology Fundamentals begins with learning objectives to aid readers in recognizing important points and connecting the basic radiology concepts that run throughout the text. It is the editors' hope that this valuable, up-to-date resource will foster and further stimulate self-directed radiology learning—the process at the heart of medical education.

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 signals are conveyed in the brain. The 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 to understanding the many discoveries that are sure to be announced throughout the "Decade of the Brain."

Core Topics in Neuroanaesthesia and Neurointensive Care Basil F. Matta 2011-10-13 Core Topics in Neuroanaesthesia and Neurointensive Care is an authoritative and practical clinical text that offers clear diagnostic and management guidance for a wide range of neuroanaesthesia and neurocritical care problems. With coverage of every aspect of the discipline by outstanding world experts, this should be the first book to which practitioners turn for easily accessible and definitive advice. Initial sections cover relevant anatomy, physiology and pharmacology, intraoperative and critical care monitoring and neuroimaging. These are followed by detailed sections covering all aspects of neuroanaesthesia and neurointensive care in both adult and pediatric patients. The final chapter discusses ethical and legal issues. Each chapter delivers a state-of-the-art review of clinical practice, including outcome data when available. Enhanced throughout with numerous clinical photographs and line drawings, this practical and accessible text is key reading for trainee and consultant anaesthetists and critical care specialists.

The Brain Anatomical Chart Anatomical Chart Co 2000-01-01 Shows cranial nerves and vessels in the base of brain. Also provides lateral and sagittal section views of the arteries of the brain. Illustrates lobes, limbic system, ventricles of the brain, coronal section, Circle of Willis, circulation of cerebrospinal fluid (CSF), somatotopic organization of the cerebrum and meninges of the brain. Compatibility: BlackBerry OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher / Palm OS 3.5 or Higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile™ Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC

The Subcommissural Organ Andreas Oksche 2012-12-06 The subcommissural organ is a secretory ependymo-glial structure of the brain. It secretes glycoproteins into the cerebrospinal fluid. The chemical nature of this material is only partly known, and the functional role of theentire circumventricular organ complex has remained enigmatic. New experimental models include transplantation, immunological blockade,and experimental and clinical hydrocephalus. This first book in the field containing provocative ideas will most likely stimulate further investigations into molecular and systemic aspects of the problem.

Orbit and Sellar Region Albert L. Rhoton 2013-08-15 Designed to bring all orbital anatomy into perspective, this expert reference is the first to: 1) Provide a comprehensive review of the microsurgical anatomy of the orbit and sellar region; 2) Demonstrate the relationship of the orbit and surrounding structures; and 3) Illustrate orbital structures from multiple operative approaches Hundreds of vivid dissections show the orbit from above, below, laterally, medially, and anteriorly, with illustrations fully labeled for valuable review and study. The organization of The Orbit and Sellar Region leads to clarity and comprehension. Divided into three sections, the book begins with a full description of osseous, neural, arterial, venous, and muscular anatomy. It then goes on to stepwise dissections of the orbit from different directions, in which each layer is peeled away to expose the next deeper layer and the placement of the

as recognized, adventure as competently as experience approximately lesson, amusement, as well as concord can be gotten by just checking out a ebook anatomy of ventricles of the brain pdf along with it is not directly done, you could undertake even more in relation to this life, concerning the world.

We allow you this proper as without difficulty as simple pretentiousness to get those all. We have the funds for anatomy of ventricles of the brain pdf and numerous ebook collections from fictions to scientific research in any way. along with them is this anatomy of ventricles of the brain pdf that can be your partner.
orbit and concludes with multiple common operative approaches to the sellar region.

Neuroanatomy for Medical Students L. Wilkinson 2014-04-24
Neuroanatomy for Medical Students, Second Edition provides a fundamental knowledge base that is essential to a proper understanding of the clinical neurosciences. This edition includes additional topics on neurophysiology, neuropathology, and applied anatomy. The areas on cell membrane structure and function, motor control, muscle spindles, spinocerebellar tracts, reticular formation, striatal transmitters, and retinal neurons are updated. This book also expands the topics on pineal gland, pituitary tumors, split brain effect, visual cortex, neural plasticity, and barrel fields. The topography of ventricles and summary table of cranial nerve are likewise revised. Other materials covered include nerve growth factor, neural transplantation, dorsal column transaction, cerebellar memory, and perivascular spaces. The neurotransmitters and neuromodulators, and their magnetic resonance, and their emission tomography are also discussed. This publication is a good reference for medical students intending to acquire knowledge of basic neurobiology.

Galen on the Brain Julius Rocca 2003-02-02 Galen's account of the brain is arguably one of the best examples of the apogee of Greek anatomical science, and is an intellectual achievement unmatched until Vesalius. This study provides a detailed and critical examination of Galen's anatomy and physiology of the brain.

The Whole Brain Atlas Keith A. Johnson 1999-01 This multimedia CD-ROM is a comprehensive and interactive visual guide to normal brain anatomy and neuroimaging as seen on MRI images. The CD-ROM contains over 13,000 MRI, PET, SPECT, and CT images and video clips of normal brain structures and pathologic changes in cerebrovascular, neoplastic, degenerative, and inflammatory/infec tious diseases. Thirty illustrative cases integrate whole-brain imaging data sets from real patients with clinical information. Unique software navigational tools enable the user to compare normal and abnormal images / view transaxial slices of the brain / superimpose images in different modalities / take guided video "tours" of brain structures and disease states. An Atlas of Normal Structure and Blood Flow depicts 100 major brain structures. Complete demonstrations of vascular anatomy and normal aging are also included. The 30 cases consist of full volume data sets in one or several relevant modalities. Some cases include images acquired at several points in the course of a disease. The images can be superimposed to allow direct spatial and temporal comparisons between image types and between points in time. Windows / Macintosh Compatible Competibility: Blackberry® OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher / Palm OS 3.5 or higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile™ Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC

The Brain and Behavior David L. Clark 2005-09-08 New edition building on the success of previous one. Retains core aim of providing an accessible introduction to behavioral neuroanatomy. Advances and Technical Standards in Neurosurgery John D. Pickard 2009-11-10 This series, sponsored by the European Association of Neurosurgical Societies, has already become a classic. In general, one volume is published per year. The advances section presents fields of neurosurgery and related areas in which important recent progress has been made. The technical standards section features detailed descriptions of standard procedures to assist young neurosurgeons in their post- graduate training. The contributions are written by experienced clinicians and are reviewed by all members of the editorial board. Basics of Abdominal, Gynaecological, Obstetrics and Small Parts Ultrasound Radiation 2012-03-23 This book offers an essential guide for postgraduates, obstetricians and gynaecologists (including teaching faculty), helping them develop workflows for the early detection and assessment of high-risk pregnancies & pregnancy with IUGR using colour Doppler applications and transfonnet access cranial sonography in premature new-borns during routine ultrasonography. This book familiarizes practicing radiologists and O-Gyn specialists with this aspect of sonography, so as to improve perinatal outcomes. A Textbook of Neuroanatomy Maria A. Patetras 2016-02-17 Newly revised and updated, A Textbook of Neuroanatomy, Second Edition is a concise text designed to help students easily master the anatomy and basic physiology of the nervous system. Accessible and clear, the book highlights interrelationships between systems, structures, and the rest of the body as the chapters move through the various regions of the brain. Building on the solid foundation of the first edition, A Textbook of Neuroanatomy now includes two new chapters on the brainstem and reflexes, as well as dozens of new micrographs illustrating key structures. Throughout the book the clinical relevance of the material is emphasized through clinical cases, questions, and follow-up discussions in each chapter, motivating students to learn the information. A companion website is also available, featuring study aids and artwork from the book as PowerPoint slides. A Textbook of Neuroanatomy, Second Edition is an invaluable resource for students of general, clinical and behavioral neuroscience and neuroanatomy.

The Choroid Plexus and Cerebrospinal Fluid Josh Neman 2015-09-22 The Choroid Plexus and Cerebrospinal Fluid: Emerging Roles in CNS Development, Maintenance, and Disease Progression combines new and established work to allow for cross-disciplinary discussion and showcase newfound excitement surrounding the choroid plexus and cerebrospinal fluid (CSF). This book is of great utility to neuroscientists interested in biological questions about cancer, multiple sclerosis, Alzheimer’s, choroid plexus, or CSF research, and especially for researchers looking to expand their research into laboratory models of their disease of interest. No other resource is currently available which addresses these issues in this fashion. The focus on the choroid plexus provides a practical resource on modeling clinical issues influenced by this brain region for researchers from students to principal investigators. Presents recent progress made in the research of choroid plexus and cerebrospinal fluid across multi-disciplinary fields, including neuroscience, cancer biology, and immunology includes numerous illustrations of light, fluorescent, and electron micrographs Provides data analysis boxes in each chapter to help with data interpretation and offer guidelines on how best to represent results Includes chapters written by prominent researchers in the field

Clinical Neuroanatomy Snell 2010-06-01

Discoveries in the Human Brain Louise H. Marshall 2013-09-170u can climb back up a stream of radiance to the sky, and back through history up the stream of time. 1. -Robert Frost topics that he judged to be important in brain his From the last years of the second millennium, tory leading into the end of the century, and was we can look back on antecedent events in neuro undertaken in response to the enthusiasm generic science with amazement that so much of modern ated by exhibition at several national and interna biomedical science was anticipated, or even said or done, in an earlier time. That surprise can be tional meetings of a series of large posters for which matched by appreciation for what the pioneer Magoun wrote a 27-page brochure. The posters investigators, with no inking that they were creat were viewed by a multitude of young neurosci ing a discipline, contributed to its emergence as a tists who wanted more, as well as by mature inve productive force in human progress. In today’s tigators who were warmly pleased to see familiar names and faces from the past. The acclaim was reductionist atmosphere, in which research at the molecular level is producing breathtaking new accompanied by a veritable deluge of requests for knowledge throughout biology, the student may an illustrated, expanded publication.

Discoveries in the Human Brain Louise H. Marshall 2013-09-170u can climb back up a stream of radiance to the sky, and back through history up the stream of time. 1. -Robert Frost topics that he judged to be important in brain his From the last years of the second millennium, tory leading into the end of the century, and was we can look back on antecedent events in neuro undertaken in response to the enthusiasm generic science with amazement that so much of modern ated by exhibition at several national and interna biomedical science was anticipated, or even said or done, in an earlier time. That surprise can be tional meetings of a series of large posters for which matched by appreciation for what the pioneer Magoun wrote a 27-page brochure. The posters investigators, with no inking that they were creat were viewed by a multitude of young neurosci ing a discipline, contributed to its emergence as a tists who wanted more, as well as by mature inve productive force in human progress. In today’s tigators who were warmly pleased to see familiar names and faces from the past. The acclaim was reductionist atmosphere, in which research at the molecular level is producing breathtaking new accompanied by a veritable deluge of requests for knowledge throughout biology, the student may an illustrated, expanded publication. See Right Through Me Savvas Andronikou 2012-12-04 This atlas demonstrates all components of the body through imaging, in much the same way that a geographical atlas demonstrates components of the world. Each body system and organ is imaged in every plane using all relevant modalities, allowing the reader to gain knowledge of density and signal intensity. Areas and methods not usually featured in imaging atlases are addressed, including the cranial nerve pathways, white matter tractography, and pediatric imaging. As the emphasis is very much on high-quality images with detailed labeling, there is no significant written component; however, ‘pearl boxes’ are scattered throughout the book to provide the reader with greater insight. This atlas will be an invaluable aid to clinicians and clinical radiologists alike. As well, it will enable them to look up an exact replica and identify the anatomical components. The message to the reader is: Choose an organ, read the ‘map,’ and enjoy the journey!

Atlas of Regional Anatomy of the Brain Using MRI Jean C. Tamraz 2006-02-08 A unique review of the essential topographical anatomy of the brain from an MRI perspective, correlating high-quality anatomical plates with high-resolution MRI images. The book includes a historical review of brain mapping and an analysis of the essential reference planes used. It provides a detailed review of the sulcal and the gyral anatomy of the human cortex, guiding readers through an interpretation of the individual brain atlas provided by high-resolution MRI. The relationship between the brain structure and function is approached in a topographical fashion with an analysis of the necessary imaging methodology and displayed anatomy. An extensive coronal atlas rounds off the book.

Anatomy of the Brain anatomical chart company staff 2002 This chart shows base and right side views of arteries of the brain as well as venous
Radiologic Anatomy of the Brain, Georges Salamon 2012-11-16

Despite all recent advances, the most important progress in neuroradiology has been in our knowledge of the anatomy of the nervous system. DANDY's injection of ventricles and cisterns with air, SICARD'S studies of the epidural and subarachnoid space with lipiodol, MONIZ'S work on cerebral arteries and veins, and, more recently, DJINDJIAN'S and DI CHIRO'S investigations of spinal arteries, have modified, refined and expanded current knowledge of anatomy of the central nervous system. As described by LINDGREN, "the neuroradiologist dissect the region of interest with x-rays like a surgeon with a scalpel". In fact, neuroradiologic examination is nothing less than an anatomic survey in vivo, using multiple orthogonal projections. The authors of this book are convinced that frequent and sequent clinical and anatomical analysis are the most useful and rewarding means of understanding neuroradiologic problems. Arteries and veins of the brain may be considered in the terms of the sulci, gyri, cisterns, ventricles, basal nuclei, and cortical centers. In this book, efforts have been made to match anatomic elements of the ventricles, cisterns, and vessels to the region being studied. The foundation of this book lies in the detailed anatomic-radiologic correlate, demonstrated by numerous photographs of dissected specimens, radiographs of injected specimens, anatomic drawings, diagrams, and normal cerebral angiograms and encephalograms. Indeed, there is no region in the central nervous system that may be delineated by its relationships with arteries, veins, cisterns, and ventricles.

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. 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 has limited capacity for expansion. The role of regional 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.

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 comparison with the historical Dewey's and Forel's concept of the role of cerebrospinal fluid in the evolution of abnormalities of intracranial pressure. This book provides a practical and helpful guide for preoperative and peroperative considerations. It is a valuable resource for general neurosurgeons and pediatric neurosurgeons for the diagnosis and treatment of pediatric hydrocephalus.

Netter's Atlas of Neuroscience E-Book David L. Felten 2015-09-28 Ideal for students of neuroscience and neuroanatomy, the new edition of Netter's Atlas of Neuroscience combines the didactic well-loved illustrations of Dr. Frank Netter with succinct text and clinical points, providing a highly visual, clinically oriented guide to the most important topics in this subject. The logically organized content presents neuroscience from three perspectives: an overview of the nervous system, regional neuroscience, and systemic neuroscience, enabling you to review complex neural structures and systems from different contexts. You may also be interested in: A companion set of flash cards, Netter's Neuroscience Flash Cards, 3rd Edition, to which the textbook is cross-referenced. Coverage of both regional and systemic neurosciences allows you to learn structure and function in different and important contexts. Combines the precision and beauty of Netter and Netter-style illustrations to highlight key neuroanatomical concepts and clinical correlations. Reflects the current understanding of the neural components and supportive tissue, regions, and systems of the brain, spinal cord, and periphery. Uniquely informative drawings provide a quick and memorable overview of anatomy, function, and clinical relevance. Succinct and useful format utilizes tables and short text to easily accessible "at-a-glance" information. Provides an overview of the basic features of the spinal cord, brain, and peripheral nervous system, the vasculature, meninges and cerebrospinal fluid, and basic development. Integrates the peripheral and central aspects of the nervous system. Bridges neuroanatomy and neurobiology through the use of correlative radiographs. High-quality photographs from anatomy and clinical neurosciences. Comparisons of horizontal sections, CTS and MRIs. Expanded coverage of cellular and molecular neuroscience provides essential guidance on signaling, transcription factors, stem cells, evoked potentials, neuronal and glial function, and a number of molecular breakthroughs for a better understanding of normal and pathologic conditions of the nervous system. Micrographs, radiologic imaging, and stained cross sections supplement illustrations for a comprehensive visual understanding. Increased clinical points -- from sleep disorders and inflammation in the CNS to the biology of seizures and the mechanisms of Alzheimer's -- offer concise insights that bridge basic neurobiology and clinical practice, as well as clinical considerations.
Gross Anatomy: The Big Picture David A. Morton 2011-06-14 Get the Big Picture of Gross Anatomy in the context of healthcare – and zero-in on what you really need to know versus “what’s nice to know,” it features 450 full-color illustrations that give you a complete, yet concise, overview of essential anatomy. The book’s user-friendly presentation consists of text on the left-hand page and beautiful full-color illustrations on the right-hand page. In this way, you get a “big picture” of anatomy principles, delivered one concept at a time — making them easier to understand and retain. Striking the perfect balance between illustrations and text, Gross Anatomy: The Big Picture features: High-yield review questions and answers at the end of each chapter Numerous summary tables and figures that encapsulate important information 450 labeled and explained full-color illustrations A final exam featuring 100 Q&As Important clinically-relevant concepts called to your attention by convenient icons Bullets and numbering that break complex concepts down to easy-to-remember points Ross & Wilson Anatomy and Physiology in Health and Illness E-Book Anne Waugh 2018-07-12 The new edition of the hugely successful Ross and Wilson Anatomy & Physiology in Health and Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner. Fully updated throughout, the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier. The 13th edition retains its popular website, which contains a wide range of ‘critical thinking’ exercises as well as new animations, an audio-glossary, the unique Body Spectrum© online colouring and self-test program, and helpful weblinks. Ross and Wilson Anatomy & Physiology in Health and Illness will be of particular help to readers new to the subject area, those returning to study after a period of absence, and for anyone whose first language isn’t English. Latest edition of the world’s most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide Clear, no nonsense writing style helps make learning easy Accompanying website contains animations, audio-glossary, case studies and other self-assessment material, the unique Body Spectrum© online colouring and self-test software, and helpful weblinks Contains helpful learning features such as Learning Outcomes boxes, colour coding and design icons together with a stunning illustration and photography collection Contains clear explanations of common prefixes, suffixes and roots, with helpful examples from the text, plus a glossary and an appendix of normal biological values. Particularly valuable for students who are completely new to the subject, or returning to study after a period of absence, and for anyone whose first language is not English All new illustration programme brings the book right up-to-date for today’s student Helpful ‘Spot Check’ questions at the end of each topic to monitor progress Fully updated throughout with the latest information on common and/or life threatening diseases and disorders Review and Revise end-of-chapter exercises assist with reader understanding and recall Over 150 animations – many of them newly created - help clarify underlying scientific and physiological principles and make learning fun Handbook of Pediatric Surgery Chandrasen K. Sinha 2010-06-25 Although pediatric surgery is a distinct and evolving specialty, it still remains an integral part of most general surgical and paediatric medical practice. Nevertheless, surgery in children does differ from adult practice in various fundamental ways, and there are key physiological and anatomical differences that constantly need underlining. Progress and improvement in outcome has also been accompanied by a need for practitioners to keep themselves up-to-date with the usual surgical or paediatric text books. This book will give a concise overview of all important topics and is designed to provide information in order to recognise the common surgical conditions; namely typical symptoms and signs, investigation and then treatment management. It will also provide an anatomical and physiological background to aid understanding, in addition to emphasising logical, and where possible, evidence-based practice by the use of flow charts, tables and algorithms. Authored by an international range of leading contributors, this is the first book of its kind to offer comprehensive coverage to this topic in a quick reference, pocket-book format. Diseases of the Brain, Head and Neck Spine 2020-2023 Juerg Hodler 2020-02-14 This open access book offers an essential overview of brain, head and neck, and spine imaging. Over the last few years, there have been considerable advances in this area, driven by both clinical and technological developments. Written by leading international experts and teachers, the chapters are disease-oriented and cover all relevant imaging modalities, with a focus on magnetic resonance imaging and computed tomography. The book also includes a synopsis of pediatric imaging. IDKD books are rewritten (not merely updated) every four years, which means they offer a comprehensive review of the state-of-the-art in imaging. The book is clearly structured and features learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers navigate the text. It will particularly appeal to general radiologists, radiology residents, and interventional radiologists who want to update their diagnostic expertise, as well as clinicians from other specialties who are interested in imaging for their patient care. Ultrasound Sectional Anatomy Patricia Morley 2013-10-22 Ultrasonic Sectional Anatomy centers on the imaging processes, methodologies, and approaches employed in sectional anatomy. The selection first offers information on the brain and cerebral ventricles, eye and orbit, and the thyroid and adjacent soft tissues of the neck. The book also examines the breast, heart, and abdominal muscles and skeletal boundaries. Topics include anterior abdominal wall, pelvic muscles, diaphragm, recording the cross-sectional echocardiogram, and echography of the normal breast. The text elaborates on the upper abdominal viscera and the kidneys, including renal anomalies, spleen, pancreas, adrenal glands, and gall bladder and bile ducts. The manuscript then takes a look at the gastrointestinal tract and peritoneal cavity and viscera of the lower abdomen and pelvis. Discussions focus on scrotum and penis, urinary bladder, ureter, seminal vesicles, and prostate, and peritoneal recesses. The selection is a dependable reference for readers interested in sectional anatomy. Captain's Stroke Louis R. Caplan 2016-09-08 This market-leading guide covers all aspects of cerebrovascular disease, stroke syndromes, causes, prevention, evaluation and management. The Human Nervous System Charles R. Noback 2005 In this work, the authors integrate three major basic themes of neuroscience to serve as an introduction and review of the subject.