The Human Brain in Photographs and Diagrams E-Book

Textbook of nervous diseases
Fitzpatrick's Dermatology in General Medicine, Eighth Edition, 2 Volume set
Marsden's Book of Movement Disorders Neurostimulation for the Treatment of Chronic Pain E-Book
Moody's Review for the NBDE, Part 1 - E-Book
The Thalamus 2 Volume Set

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After more than 75 years, Nelson Textbook of Pediatrics remains your indispensable source for definitive, state-of-the-art answers on every aspect of pediatric care. Embracing the new advances in science as well as the time-honored art of pediatric practice, this classic reference provides the essential information that practitioners and other care providers involved in pediatric health care throughout the world need to understand to effectively address the enormous range of biologic, psychologic, and social problems that our children and youth may face. Brand-new chapters and comprehensive revisions throughout ensure that you have the most recent information on diagnosis and treatment of pediatric diseases based on the latest recommendations and methodologies. "The coverage of such a wide range of subjects relating to child health makes this textbook still the gold standard and companion for all pediatricians across the world." Reviewed by Neel Kamal, Sept 2015 "All in all, this is an excellent and detailed paediatric review textbook which represents excellent value for money...truly a textbook for the global community" Reviewed by glycosmedia.com, Sept 2015

Form a definitive diagnosis and create the best treatment plans possible using evidence-based medicine and astute clinical experiences from leading international authors—many new to this edition. A NEW two-volume layout provides superior portability and exceptional ease of use. Gain a more complete perspective. Along with a broader emphasis on imaging and molecular diagnoses and updated references, the new edition includes an increased focus on international issues to ensure relevance in pediatrics practice throughout the world. Effectively apply the latest techniques and approaches with complete updates throughout 35 new chapters, including: Innovations in Addressing Child Health and Survival in Low Income Settings; Developmental Domains and Theories of Cognition; The Reggio Emilia Educational Approach Catatonia; Refeeding Syndrome; Altitude-associated Illness; Genetic Approaches to Rare and Undiagnosed Diseases; Healthcare?Associated Infections; Intrapartum and Peripartum Infections; Bath salts and other drugs of abuse; Small Fiber Polyneuropathy; Microbiome; Kingella kingae; Mitochondrial Neurogastrointestinal Encephalomyopathy; Nonalcoholic Fatty Liver Disease; Plagiocephaly; CNS Vasculitis; Anterior Cruciate Ligament Rupture; and Sports-Related Traumatic Brain Injury. Recognize, diagnose, and manage genetic and acquired conditions more effectively. A new Rehabilitation section with 10 new chapters, including: Evaluation of the Child for Rehabilitative Services; Severe Traumatic Brain Injury; Spinal Cord Injury and Autonomic Crisis Management; Spasticity; Birth Brachial Plexus Palsy; Traumatic and Sports-Related Injuries; Meningomyelocele; Health and Wellness for Children with Disabilities. Manage the transition to adult healthcare for children with chronic diseases through discussions of the overall health needs of patients with congenital heart defects, diabetes, and cystic fibrosis. Understand the principles of therapy and which drugs and dosages to prescribe for every disease. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.
**Text-book of nervous diseases**

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 international authorities, an abundance of detailed illustrations, and procedural video clips provide everything you need to avoid and manage complex problems. Clean essential, up-to-date, need-to-know information in one comprehensive reference that explores the full spectrum of surgical techniques used in spine surgery. Hone your surgical skills and technique with intraoperative videos and more than 800 outstanding illustrations demonstrating each 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 present all of the most up-to-date information available on every aspect of spine surgery including motion preservation technologies, endovascular management, back pain and psychosocial interactions, biomechanics, and more. Consult with the best. Renowned neurosurgery authority Edward C. Benzel leads an international team of accomplished neurosurgeons and orthopedic surgeons - many 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 image gallery and links to PubMed.

**Fitzpatrick's Dermatology in General Medicine, Eighth Edition, 2 Volume set**

Written and edited by world-renowned authorities, this three-volume work is, to quote a reviewer, "the definitive textbook about seizures and epilepsy". This Second Edition is thoroughly updated and gives you a complete print and multimedia package: the three-volume set plus access to an integrated content Website. More than 300 chapters cover the spectrum of biology, physiology, and clinical information, from molecular biology to public health concerns in developing countries. Included are detailed discussions of seizure types and epilepsy syndromes; relationships between physiology and clinical events; psychiatric and medical comorbidity; conditions that could be mistaken for epilepsy; and an increasing range of pharmacologic, surgical, and alternative therapies, including vagus nerve stimulation and deep brain stimulation. This edition describes many new antiepileptic drugs, major advances in surgical treatment, and state-of-the-art neuroimaging, EEG, and other technologies for diagnosis and seizure prediction. A companion Website offers instant access to the complete, fully searchable text, plus an image bank of additional figures, video footage, and annual updates to selected chapters.

**Marsden's Book of Movement Disorders**

Antidepressants and related psychiatric drugs are the most important prescription drugs worldwide, accounting for a market volume of 20 billion US$ per year. This handbook provides a complete and detailed overview of all currently available psychiatric drugs, covering more than 250 different compounds. Particular features include: * the most important information on the chemistry, pharmacology and therapeutic use of a given drug * a special layout with margin notes and compound structures allowing for quick and easy access to the desired information Written by drug developers from the pharmaceutical industry, novel drugs currently under development and new methods of treatment are listed side by side with classical drugs, allowing a direct comparison of traditional and innovative therapeutic approaches.

**Neurostimulation for the Treatment of Chronic Pain E-Book**

Neurobiology of Language explores the study of language, a field that has seen tremendous progress in the last two decades. Key to this progress is the accelerating trend toward integration of neurobiological approaches with the more established understanding of language within cognitive psychology, computer science, and linguistics. This volume serves as the definitive reference on the neurobiology of language, bringing these various advances together into a single volume of 100 concise entries. The organization includes sections on the field's major subfields, with each section covering both empirical data and theoretical perspectives. "Foundational" neurobiological coverage is also provided, including neuroanatomy, neurophysiology, genetics, linguistic, and psycholinguistic data, and models.
Foundational reference for the current state of the field of the neurobiology of language
Enables brain and language researchers and students to remain up-to-date in this fast-moving field that crosses many disciplinary and subdisciplinary boundaries Provides an accessible entry point for other scientists interested in the area, but not actively working in it – e.g., speech therapists, neurologists, and cognitive psychologists Chapters authored by world leaders in the field – the broadest, most expert coverage available

Mosby’s Review for the NBDE, Part 1 – E-Book

Thalamus

This book presents the latest research by leading researchers on different aspects of the organization and function of the basal ganglia and its output nuclei projections to the thalamus. The major diseases associated with dysfunction of the basal ganglia are Parkinson’s, Huntington’s, dystonia (abnormal fixed posture with spasms), tremor, and drug-induced dyskinesias. Chapters address both basic sciences, such as the physiology and molecular signaling aspects, and clinical applications, such as lesions and stimulation of the thalamic area of the brain.

The Big Book of Biology For NEET Volume 1

Designed to provide a thorough understanding of sectional anatomy, this unique, two-volume set is a complete, easy-to-use learning package. Volume 1, “Concepts, presents detailed, readable descriptions of sectional anatomy of the entire body broken down into body systems. It focuses on how different structures within a system are related, so you can form a clear picture of how everything fits together. The text is highlighted with many new labeled diagnostic images, including radiographs, CT, MR, and sonograms. Volume 2, “Applications, is an interactive workbook with coloring, labeling, and other exercises designed to help you identify the structures most commonly encountered in various imaging techniques. Helpful features include: chapter outlines, chapter objectives, pathology boxes, summary tables of anatomical information, review questions, chapter quizzes, and a glossary. Interactive exercises include labeling, anatomical coloring, short answer questions, and “Chapter Recall tests. Many more labeled, high-quality images, including MRI, CT and sonography help you learn anatomy using real-life images you’ll see in clinics and in practice. Quick Check Questions test your understanding of the material as you progress through the chapters. Important Anatomical Relationships section describes relationships between anatomical structures and refers you to relevant images. Working with Images sections in each body system chapter provide additional discussion and diagnostic images, helping you learn to identify anatomical structures with a variety of imaging modalities. List of Key Terms at the beginning of each chapter alert you to the terms you need to watch for before you read. More exercises with diagnostic images in the Applications volume, giving additional opportunities to identify and label anatomic structures on actual images. Answers to all Quick Check questions are given in the back of the book, allowing for immediate feedback; answers to the other questions and exercises are available online on Evolve. Evolve Online Resources contains images of cadaver sections, allowing you to see anatomy related to the line drawings in the book.

Exploring the Thalamus

‘Marsden’s Book of Movement Disorders' represents the final work of the late Professor C. David Marsden, who was the most influential figure in the field of movement disorders, in terms of his contributions to both research and clinical practice, in the modern era. It was conceived and written by David Marsden and his colleague at the Institute of Neurology, Prof. Ivan Donaldson. It was their intention that this would be the most comprehensive book on movement disorders and also that it would serve as the ‘clinical Bible' for the management of these conditions. It provides a masterly survey of the entire topic, which has been made possible only by vast laboratory and bedside experience. The coverage of this comprehensive online resource includes the full breadth of movement disorders, from the underlying anatomy and understanding of basal ganglia function to the diagnosis and management of specific movement disorders, including the more common conditions such as Parkinson’s Disease through to very rare conditions such as Neumann-Pick disease. Chapters follow a structured format, featuring historical overviews, definitions, clinical features, differential diagnosis, investigations and treatment covered in a structured way. Figures include many original photographs and diagrams of historical significance, which can all be downloaded as PowerPoint presentations. Among these illustrations are still images of some original film
clips of some of Dr. Marsden’s patients published here for the first time. Comprehensively referenced, with links through to primary research journal articles, and updated by experts from the Institute of Neurology at Queen Square, ‘Marsden’s Book of Movement Disorders’ is a valuable reference for movement disorder specialists and researchers, as well as clinicians who care for patients with movement disorders.

Epilepsy

Basal Ganglia and Thalamus in Health and Movement Disorders

Text-book of Nervous Diseases for the Use of Students and Practitioners of Medicine

The Big Book of Biology Volume 1- New Self Study Guide 2. The book is designed on Chapterwise Premises 3. Entire syllabus is divided into 22 Chapters 4. 7000 Topically divided objective questions along with detailed explanations 5. more than 13000 MCQs given from all possible typologies There was never a better time to emphasize the Fact that How important doctors are. Its probably the most fulfilling and dream career opportunity for any aspirants. NEETis the gateway to millions of dreamers to open the door for admission in top MBBS Colleges in India and Biology plays half the role. Looking at the need of the hour and based on Changing and Latest Pattern of examination Arihant brings you the “The Big Book of Biology”. The New Self Study Guide has been designed on Chapterwise Premises. The all-new series of “Big Book of Biology for NEET – Volume 1” has been designed to fulfill the important needs of all NEET aspirants. The syllabus in this volume has been divided into 22 chapters as per latest pattern, serving as an in-depth question bank of Biology subject. This book has; 7000 Topically divided objective questions are given for along with the Detailed explanations, collection of more than 13000 MCQs given from all possible typologies arranged in Chapterwise and Topicwise as per NEET 2020 Syllabus for practice, to the point amicable explanations in each chapter, vast coverage given to objection questions asked in various Medical Entrances from 2000 till date. 2. The book is designed on Chapterwise Premises 3. Entire syllabus is divided into 22 Chapters 4. 7000 Topically divided objective questions along with detailed explanations 5. more than 13000 MCQs given from all possible typologies There was never a better time to emphasize the Fact that How important doctors are. Its probably the most fulfilling and dream career opportunity for any aspirants. NEETis the gateway to millions of dreamers to open the door for admission in top MBBS Colleges in India and Biology plays half the role. Looking at the need of the hour and based on Changing and Latest Pattern of examination Arihant brings you the “The Big Book of Biology”. The New Self Study Guide has been designed on Chapterwise Premises. The all-new series of “Big Book of Biology for NEET – Volume 1” has been designed to fulfill the important needs of all NEET aspirants. The syllabus in this volume has been divided into 22 chapters as per latest pattern, serving as an in-depth question bank of Biology subject. This book has; 7000 Topically divided objective questions are given for along with the Detailed explanations, collection of more than 13000 MCQs given from all possible typologies arranged in Chapterwise and Topicwise as per NEET 2020 Syllabus for practice, to the point amicable explanations in each chapter, vast coverage given to objection questions asked in various Medical Entrances from 2000 till date. TOC The Living world, Biological Classification, Plant Kingdom, Animal Kingdom, Morphology of Flowering Plants, Anatomy of Flowering Plants, Structural Organisation in Animals, Cell: The Unit of Life, Biomolecules, Cell Cycle and Cell Division, Transports in Plants, Mineral Nutrition, Photosynthesis in Higher Plants, Respiration in Plants, Plant Growth and Development, Digestion and Absorption, Breathing and Exchanging of Gases, Body Fluids and Circulation, Excretory Products and Their Elimination, Locomotion and Movement, Neural Control and Coordination, Chemical Coordination and Integration.

Stereotactic Atlas of the Human Thalamus and Basal Ganglia

Covering everything from historical and international perspectives to basic science and current clinical practice, Miller’s Anesthesia, 9th Edition, remains the preeminent reference in the field. Dr. Michael Gropper leads a team of global experts who bring you the most up-to-date information available on the technical, scientific, and clinical issues you face each day – whether you’re preparing for the boards, studying for recertification, or managing a challenging patient care situation in your practice. Includes four new chapters: Clinical Care in Extreme Environments: High Pressure, Immersion, and Hypo- and Hyperthermia; Immediate and Long-Term Complications; Clinical Research; and Interpreting the Medical Literature.
Addresses timely topics such as neurotoxicity, palliation, and sleep/wake disorders. Streamlines several topics into single chapters with fresh perspectives from new authors, making the material more readable and actionable. Features the knowledge and expertise of former lead editor Dr. Ronald Miller, as well as new editor Dr. Kate Leslie of the University of Melbourne and Royal Melbourne Hospital. Provides state-of-the-art coverage of anesthetic drugs, guidelines for anesthetic practice and patient safety, new techniques, step-by-step instructions for patient management, the unique needs of pediatric patients, and much more—all highlighted by more than 1,500 full-color illustrations for enhanced visual clarity.

Principles of Behavioral and Cognitive Neurology

It is now more than fifty years since Sir Wilfrid Le Gros Clark (1932a) published his Arris and Gale lectures on the structure and connections of the thalamus. This authoritative overview came at a time when thalamic studies were passing from a descriptive to an experimental phase and, in his review, Le Gros Clark was able to cover virtually every aspect of the organization and development and much of the comparative anatomy of the thalamus then known. It is also approaching a half-century since A. Earl Walker (1938a) wrote The Primate Thalamus, which was strongly experimental, but with many Clinical in sights, and which he described as "an attempt to elucidate the role of the thalamus in sensation. " The intervening years have seen published a few reports of con ferences on aspects of thalamic organization and function but no monographs comparable to those of Le Gros Clark or Walker. Perhaps this is understandable when one considers, not so much the enormity of the new data that have been added, but rather the emphasis upon individual thalamic nuclei as components of separate functional systems, not all of them sensory. It is probably also true to say that studies in the commoner experimental animals such as the rat, cat, and monkey have been so productive in their own right that there was little interest in making an across-species synthesis.

Nelson Textbook of Pediatrics, 2-Volume Set

The landmark dermatology text that bridges the gap between science and clinical medicine—updated for today’s practice Generations of clinicians, skin biologists, residents, and educators have acclaimed Fitzpatrick’s as the most authoritative and complete guide to dermatologic basic sciences, histopathology, diagnosis, and treatment. Edition after edition, it reflects the latest insights into skin diseases and skin biology—and their practical relevance to general internal medicine—while covering the scientific foundations of the specialty. This classic yet cutting-edge text is supported by the expert insights of more than 500 internationally respected contributors, and it covers everything dermatologists need to know about skin, dermatologic signs of underlying disease, and the management of all skin diseases, including acne, skin cancer, and psoriasis. FEATURES More than 3000 full-color photographs DVD with image bank includes downloadable figures from the text New illustration style makes difficult concepts easier to understand Therapeutic ladders with first, second, and third line therapies New or thoroughly revised chapters on Psoriasis; Skin disease in immunosuppressed patients; Epidermal stem cells; Hair growth disorders; Neonatal, pediatric, and adolescent dermatology; Radiotherapy; Immunobiologicals and cytokines; Lasers for rejuvenation Expanded medical and surgical therapeutics sections guide you through all treatment options

The Cognitive Thalamus

This complete exam review provides crucial, current information on each of the basic sciences addressed in Part I of the National Board Dental Examination (NBDE), including Anatomic Sciences, Biochemistry and Physiology, Microbiology and Pathology, and Dental Anatomy and Occlusion. Written by recognized authorities in their fields, material is presented in a concise, convenient outline format. Content is arranged according to the specifications of the NBDE, and supported by informative examples and illustrations. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included. Outline format presents essential data and key points in a clean, streamlined fashion. Approximately 200 diagrams and photographs provide visual evidence to support key topics, including anatomic structures, physiology, and microbiology. Exam-based structure presents sections in the same order as they appear on the actual exam. Sample exam questions include 100 multiple-choice review questions in each section of the book, created according to exam specifications. Tables and text boxes provide supplementary information and emphasize important data from the text. Answer key includes correct answers with rationales, illustrating the logic behind exam questions and reinforcing principles addressed in each section.
Cognition and Neural Development

In this book, the authors present topical research in the study of the anatomy, functions, and disorders of the thalamus. Topics discussed include the current use of stereotactic thalamic surgeries that modulate neural activities; innervation of anterior thalamic nuclei by mammillothalamic tract during perinatal development; thalamic stroke; complex pathology in the thalamus following cerebral ischemia; giant calyciform synapses in the nucleus reticularis thalami and thalamic changes in temporal lobe epilepsy.

Greenfield's Neuropathology - Two Volume Set

Two-volume set contains: The Concise Guide to Physiotherapy: Volume 1 Assessment and The Concise Guide to Physiotherapy: Volume 2 Treatment. A blend of resources providing an insight into the ‘non core’ areas of practice, enabling the individual to prepare ahead or refresh knowledge in order to feel confident about managing patients in practice areas not previously encountered. Together, both volumes are designed to assist undergraduate physiotherapy
students and new graduates in confidently assessing and treating patients in a range of physiotherapy specialties outside of the ‘core’ areas of practice. Areas covered include paediatrics, geriatrics, mental health and rheumatology. Valuable content is easily accessible in a small portable format which will be an invaluable reference during placements or practice. Each chapter provides a concise overview of the philosophy and the specific assessment processes for each of the 17 practice specialties. A wealth of online learning resources are also available with both Volumes, these include access to case studies, multiple-choice questions and a reference list for each chapter. In addition there is a bank of downloadable photographs and line drawings relating to each of the 17 chapters. Both volumes used together will be an indispensable tool for any physiotherapist. Easy access to nuggets of information on 17 ‘non core’ speciality areas, including burns and plastics, learning disabilities and rehabilitation A handy quick reference tool for both students and physiotherapists Gives insight into the philosophy of approach that can be taken in either assessing or treating the individual Access to online resources including, reference lists, an image bank, 51 cases studies and over 300 MCQs!

Multimodal and Longitudinal Bioimaging Methods for Characterizing the Progressive Course of Dementia

This reference presents a new collection of diagrams of the human thalamus, basal ganglia, and adjoining structures for accurate targeting in stereotactic functional neurosurgery. This guide consists of a series of maps in the three stereotactic planes and comparisons between brains with similar and differing intercommissural distances to help spec

Stroke in Children and Young Adults E-Book

Two leading authorities on thalamocortical connections consider how the neural circuits of the brain relate to our actions and perceptions. In this book, two leading authorities on the thalamus and its relationship to cortex build on their earlier findings to arrive at new ways of thinking about how the brain relates to the world, to cognition, and to behavior. Based on foundations established earlier in their book Exploring the Thalamus and Its Role in Cortical Function, the authors consider the implications of these ground rules for thalamic inputs, thalamocortical connections, and cortical outputs. The authors argue that functional and structural analyses of pathways connecting thalamus and cortex point beyond these to lower centers and through them to the body and the world. Each cortical area depends on the messages linking it to body and world. These messages relate to the way we act and think; each cortical area receives thalamic inputs and has outputs to motor centers. Sherman and Guillery go on to discuss such topics as the role of branching axons that carry motor instructions as well as copies of these motor instructions for relay to cortex under the control of the thalamic gate. This gate allows the thalamus to control the passage of information on the basis of which cortex relates to the rest of the nervous system.

Choice

The Concise Guide to Physiotherapy - 2-Volume Set

The thalamus is a group of cells placed centrally in the brain that serve a critical role in controlling how both sensory and motor signals are passed from one part of the cerebral cortex to another. Essentially, all information reaching the cerebral cortex and thus consciousness is relayed through the thalamus. The role of the thalamus in controlling the flow of information (such as visual, auditory, and motor) to the cortex has only recently begun to be understood. This book provides an in-depth look at the function of the thalamus and its role as relayer of information to the cerebral cortex. The authors explore how the thalamus controls messages that are passed to the cortex and they introduce the novel suggestion that the thalamus serves a critical role in controlling how messages pass from one part of the cortex to another. Exploring the Thalamus is a comprehensive, up-to-date reference for researchers. It discusses problems concerning the function and structure of the thalamus and concludes each chapter with thought-provoking questions regarding future research. Focuses on thalamocortical interrelationships Discusses important problems concerning the function and structure of the thalamus Concludes each chapter with thought-provoking questions requiring future research

Spine Surgery 2-Vol Set E-Book
Neurostimulation for the Treatment of Chronic Pain—a volume in the new Interventional and Neuromodulatory Techniques for Pain Management series—presents state-of-the-art guidance on the full range of neuromodulation techniques performed today. Salim Hayek, MD, PhD and Robert Levy, MD, PhD offer expert advice on a variety of spinal cord, peripheral nerve, and peripheral nerve field stimulation procedures to treat chronic pain. Comprehensive, evidence-based coverage on selecting and performing these techniques—as well as weighing relative risks and complications—helps you ensure optimum outcomes. With access to the fully searchable text at www.expertconsult.com, you'll have the detailed visual assistance you need right at your fingertips. Understand the rationale and scientific evidence behind interventional and neuromodulatory techniques and master their execution. Optimize outcomes, reduce complications, and minimize risks by adhering to current, evidence-based practice guidelines. Apply the newest developments in motor cortex stimulation, deep brain stimulation, peripheral nerve stimulation, and spinal cord stimulation. Quickly find the information you need in a user-friendly format with strictly templated chapters supplemented with illustrative line drawings, images, and treatment algorithms. Access the fully searchable contents, plus bonus procedural videos, at expertconsult.com.

Handbook of Brain Microcircuits

This 1986 volume was the first of five, which together give a comprehensive account of clinical psychiatry in the 1980's and its scientific foundations. After an introductory section about the historical background and the evolution of some basic concepts, clinical phenomena are described and discussed. The book concludes with a section in which mental disorders are classified and their assessment, diagnosis and treatment detailed. Each chapter is written by a recognised authority in the field and the book includes a comprehensive bibliography and cross-references to the other volumes in the series.

Handbook of Visual Optics, Two-Volume Set

Updated and revised, the second edition of Handbook of Brain Microcircuits covers the functional organization of 50 brain regions. This now-classic text uses an interdisciplinary approach to examine the integration of structure, function, electrophysiology, pharmacology, brain imaging, and behavior. Through uniquely concise and authoritative chapters by leaders in their fields, the Handbook of Brain Microcircuits synthesizes many of the new principles of microcircuit organization that are defining a new era in understanding the brain connectome, integrating the major neuronal pathways and essential microcircuits with brain function. New to the Second Edition: ◆ Insights into new regions of the brain through canonical microcircuit diagrams for each region ◆ Latest methodology in optogenetics, neurotransmitter uncaging, computational models of neurons and microcircuits, serial ultrastructure reconstructions, cellular and regional imaging ◆ Extrapolated data from new genetic tools and understandings applied to microcircuits in the mouse and Drosophila ◆ Common principles across vertebrate and invertebrate microcircuit systems, one of the key goals of modern neuroscience

The Wiley Blackwell Handbook of Forensic Neuroscience

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."


The 3rd Edition of this popular atlas offers you a systematic approach to the gross anatomy of the brain, spinal cord, and the brainstem. With an emphasis on major structures and concepts, and a careful selection of photographed sections, explanatory diagrams, and brief text, you'll find the guidance you need to better understand this complex subject. Unlabelled photographs juxtaposed with faded-out versions of the same photographs with important structures outlined and labelled allows you to view a section as you would in real life. Shows unlabelled and labelled photographs and diagrams of brain sections on the same page. Incorporates diagrams of the functional systems of the CNS with actual brain and spinal cord sections. Includes a glossary of over 260 terms mentioned in the book that elucidates every part of the atlas. Features enlarged section photographs that provide increased clarity of structures and detail for easier viewing. Includes color in previously black and white photographs in the opening "guided tour" summaries allowing you to follow and interpret what you see more clearly. Presents new material on meninges, ventricles, and blood supply to increase your knowledge of brain function and activity. Combines substantially expanded clinical coverage with angiograms for a better understanding of the anatomy. Provides an illustrated glossary containing 152 color images. This title includes additional media when purchased in print format. For this digital book edition, media content is not included.

Physiology of the Gastrointestinal Tract, Two Volume Set

Handbook of Visual Optics offers an authoritative overview of encyclopedic knowledge in the field of physiological optics. It builds from fundamental concepts to the science and technology of instruments and practical procedures of vision correction, integrating expert knowledge from physics, medicine, biology, psychology, and engineering. The chapters comprehensively cover all aspects of modern study and practice, from optical principles and optics of the eye and retina to novel ophthalmic tools for imaging and visual testing, devices and techniques for visual correction, and the relationship between ocular optics and visual perception.

Handbook of Psychiatry: Volume 1, General Psychopathology

This thoroughly revised new edition of a classic book provides a clinically inspired but scientifically guided approach to the biological foundations of human mental function in health and disease. It includes authoritative coverage of all the major areas related to behavioral neurology, neuropsychology, and neuropsychiatry. Each chapter, written by a world-renowned expert in the relevant area, provides an introductory background as well as an up-to-date review of the most recent developments. Clinical relevance is emphasized but is placed in the context of cognitive neuroscience, basic neuroscience, and functional imaging. Major cognitive domains such as frontal lobe function, attention and neglect, memory, language, prosody, complex visual processing, and object identification are reviewed in detail. A comprehensive chapter on behavioral neuroanatomy provides a background for brain-behavior interactions in the cerebral cortex, limbic system, basal ganglia, thalamus, and cerebellum. Chapters on temperolimbic epilepsy, major psychiatric syndromes, and dementia provide in-depth analyses of these neurobehavioral entities and their neurobiological coordinates. Changes for this second edition include the reflection throughout the book of the new and flourishing alliance of behavioral neurology, neuropsychology, and neuropsychiatry with cognitive science; major revision of all chapters; new authorship of those on language and memory; and the inclusion of entirely new chapters on psychiatric syndromes and the dementias. Both as a textbook and a reference work, the second edition of Principles of Behavioral and Cognitive Neurology represents an invaluable resource for behavioral neurologists, neuropsychologists, neuropsychiatrists, cognitive and basic neuroscientists, geriatricians, physiatrists, and their students and trainees.

The Sectional Anatomy Learning System

The revised and updated second edition of this comprehensive text continues to offer careful critical evaluation and authoritative advice on stroke, the most complicated disease affecting the nervous system of children and young adults. New chapters, the latest guidelines from the American Heart Association, tips for preventing misdiagnoses, and more provide you with the knowledge you need to make the best clinical and management decisions of
both common and rare cerebrovascular disorders in the young population. Tightly focused, this fully referenced textbook fills the void in the literature by including detailed discussions on topics such as stroke in neonates, atherosclerotic cerebral infarction in young adults, strokes caused by migraines, strokes during pregnancy, and a myriad of others. Up-to-date tables containing rich troves of data along with the careful selection of multiple references further enhances your acumen. Offers practical, clinical guidance on stroke and stroke related issues, such as atherosclerotic cerebral infarction, non-atherosclerotic cerebral vasculopathies, cardiac disorders, and disorders of hemostasis to broaden your knowledge base. Includes an overview of stroke types, risk factors, prognosis, and diagnostic strategies in neonates, children, and young adults to help you better manage every condition you see. Discusses the diverse etiologies of stroke in children and young adults to increase awareness in the differences of presenting signs between children and adults. Features new chapters on Applied Anatomy, Pediatric CNS Vascular Malformation, and Vascular Disorders of the Spinal Cord to keep you on the cusp of this challenging and burgeoning field. Presents data from the latest American Heart Association guidelines for stroke in children and young adults—coauthored by Dr. Biller—to help you make better informed evaluation and management decisions. Provides tips on how to prevent misdiagnosis. Offers the latest knowledge on therapy and rehabilitation to help you chose the best treatment options. Includes more images to enhance visual guidance.

Cumulated Index Medicus

Explores how the explosion of neuroscience-based evidence in recent years has led to a fundamental change in how forensic psychology can inform working with criminal populations. This book communicates knowledge and research findings in the neurobiological field to those who work with offenders and those who design policy for offender rehabilitation and criminal justice systems, so that practice and policy can be neurobiologically informed, and research can be enhanced. Starting with an introduction to the subject of neuroscience and forensic settings, The Wiley Blackwell Handbook of Forensic Neuroscience then offers in-depth and enlightening coverage of the neurobiology of sex and sexual attraction, aggressive behavior, and emotion regulation; the neurobiological bases to risk factors for offending such as genetics, developmental, alcohol and drugs, and mental disorders; and the neurobiology of offending, including psychopathy, antisocial personality disorders, and violent and sexual offending. The book also covers rehabilitation techniques such as brain scanning, brain-based therapy for adolescents, and compassion-focused therapy. The book itself: Covers a wide array of neuroscience research Chapters by renowned neuroscientists and criminal justice experts Topics covered include the neurobiology of aggressive behavior, the neuroscience of deception, genetic contributions to psychopathy, and neuroimaging-guided treatment Offers conclusions for practitioners and future directions for the field. The Wiley Blackwell Handbook of Forensic Neuroscience is a welcome book for all researchers, practitioners, and postgraduate students involved with forensic psychology, neuroscience, law, and criminology.

Antidepressants, Antipsychotics, Anxiolytics, 2 Volume Set

Miller's Anesthesia, 2-Volume Set E-Book

Greenfield's Neuropathology, the world's leading neuropathology reference, provides a comprehensive account of the pathological findings in neurological disease, their biological basis, and their clinical manifestations. The book's detailed advice on pathological assessment and interpretation is based on clear descriptions of molecular and cellular processes and reactions that are relevant to the development of the nervous system, as well as its normal and abnormal functioning. The information is presented in an accessible way to readers working within a range of disciplines in the clinical neurosciences, and neuropathological findings are placed within the context of a broader diagnostic process. New for the Ninth Edition: Features online and downloadable digital formats with rapid search functions, annotation and bookmarking facilities, image collections, and live reference links Contains many color illustrations and high-quality clinical photographs to help with interpretation and understanding Includes more than 1000 new photographs and drawings Incorporates new design elements, such as alternate colour coding of chapters for easier navigation Known for its thorough yet practical approach, Greenfield's continues to provide trusted information to all neuropathologists and those in related specialties, including neurologists, neurosurgeons, general pathologists, neuroradiologists, and clinical neuroscientists.

Discovering the Brain
Neurobiology of Language

Cognitive processing is commonly conceptualized as being restricted to the cerebral cortex. Accordingly, electrophysiology, neuroimaging and lesion studies involving human and animal subjects have almost exclusively focused on defining roles for cerebral cortical areas in cognition. Roles for the thalamus in cognition have been largely ignored despite the fact that the extensive connectivity between the thalamus and cerebral cortex gives rise to a closely coupled thalamo-cortical system. However, in recent years, growing interest in the thalamus as much more than a passive sensory structure, as well as methodological advances such as high-resolution functional magnetic resonance imaging of the thalamus and improved electrode targeting to subregions of thalamic nuclei using electrical stimulation and diffusion tensor imaging, have fostered research into thalamic contributions to cognition. Evidence suggests that behavioral context modulates processing in primary sensory, or first-order, thalamic nuclei (for example, the lateral geniculate and ventral posterior nuclei), allowing attentional filtering of incoming sensory information at an early stage of brain processing. Behavioral context appears to more strongly influence higher-order thalamic nuclei (for example, the pulvinar and mediodorsal nucleus), which receive major input from the cortex rather than the sensory periphery. Such higher-order thalamic nuclei have been shown to regulate information transmission in frontal and higher-order sensory cortex according to cognitive demands. This Research Topic aims to bring together neuroscientists who study different parts of the thalamus, particularly thalamic nuclei other than the primary sensory relays, and highlight the thalamic contributions to attention, memory, reward processing, decision-making, and language. By doing so, an emphasis is also placed on neural mechanisms common to many, if not all, of these cognitive operations, such as thalamo-cortical interactions and modulatory influences from sources in the brainstem and basal ganglia. The overall view that emerges is that the thalamus is a vital node in brain networks supporting cognition.

Functional Connections of Cortical Areas

This reference places the latest information at users' fingertips, and a more streamlined format makes it easy to find the exact information quickly and conveniently. Includes access to a companion Web site for additional resources.

Pediatric Surgery

Scientific research shows how experience shapes the organization of the human brain through mechanisms of neural plasticity. To understand this plasticity, it is important to examine the developmental mechanisms through which the brain grows from a single cell to achieve the complex architecture of the fully developed human brain. Cognition and Neural Development examines the embryonic development of the brain to appreciate the dimensions of developmental momentum that shape the neural and psychological development of our lives. It provides new insights into the evolutionary-developmental basis of human psychological function.

The Thalamus

Physiology of the Gastrointestinal Tract, Fifth Edition — winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine — covers the study of the mechanical, physical, and biochemical functions of the GI Tract while linking the clinical disease or disorder, bridging the gap between clinical and laboratory medicine. The gastrointestinal system is responsible for the breakdown and absorption of various foods and liquids needed to sustain life. Other diseases and disorders treated by clinicians in this area include: food allergies, constipation, chronic liver disease and cirrhosis, gallstones, gastritis, GERD, hemorrhoids, IBS, lactose intolerance, pancreatic, appendicitis, celiac disease, Crohn’s disease, peptic ulcer, stomach ulcer, viral hepatitis, colorectal cancer and liver transplants. The new edition is a highly referenced and useful resource for gastroenterologists, physiologists, internists, professional researchers, and instructors teaching courses for clinical and research students. 2013 Highly Commended BMA Medical Book Award for Internal Medicine Discusses the multiple processes governing gastrointestinal function Each section edited by preeminent scientist in the field Updated, four-color illustrations

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