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Discovering the Brain The Brain: A Very Short Introduction Brain Facts The Brain Brain Facts Writing on Both Sides of the Brain The Future of the Brain A User's Guide to the Brain How the Brain Works Phantoms in the Brain The Brain Understanding the Brain: From Cells to Behavior to Cognition The Lives of the Brain The Brain The Idea of the Brain Networks of the Brain The Cerebral Circulation The Brain in Minutes The Human Brain Book Creating Mind Big Brain Book The Human Brain and Spinal Cord Book of the Brain and how it Works The Brain Book Decisions, Uncertainty, and the Brain Glucose Metabolism in the Brain The Brain Atlas The Brain That Changes Itself Rhythms of the Brain Neuroergonomics : The Brain at Work The Brain Book Who's Who of the Brain The Brain and Its Physiology; a Critical Disquisition of the Methods of Determining the Relations Subsisting Between the Structure and Functions of the Encephalon Prostheses for the Brain Anatomy of the Brain The Functions of the Brain Music and the Brain Probabilistic Models of the Brain From Conditioning to Conscious Recollection Incognito

The Idea of the Brain Feb 21 2022 An "elegant", "engrossing" (Carol Tavris, Wall Street Journal)

examination of what we think we know about the brain and why -- despite technological advances -- the workings of our most essential organ remain a mystery. "I cannot recommend this book strongly enough."--Henry Marsh, author of *Do No Harm* For thousands of years, thinkers and scientists have tried to understand what the brain does. Yet, despite the astonishing discoveries of science, we still have only the vaguest idea of how the brain works. In *The Idea of the Brain*, scientist and historian Matthew Cobb traces how our conception of the brain has evolved over the centuries. Although it might seem to be a story of ever-increasing knowledge of biology, Cobb shows how our ideas about the brain have been shaped by each era's most significant technologies. Today we might think the brain is like a supercomputer. In the past, it has been compared to a telegraph, a telephone exchange, or some kind of hydraulic system. What will we think the brain is like tomorrow, when new technology arises? The result is an essential read for anyone interested in the complex processes that drive science and the forces that have shaped our marvelous brains.

Understanding the Brain: From Cells to Behavior to Cognition May 27 2022 An examination of what makes us human and unique among all creatures--our brains. No reader curious about our "little grey cells" will want to pass up Harvard neuroscientist John E. Dowling's brief introduction to the brain. In this up-to-date

revision of his 1998 book *Creating Mind*, Dowling conveys the essence and vitality of the field of neuroscience—examining the progress we've made in understanding how brains work, and shedding light on discoveries having to do with aging, mental illness, and brain health. The first half of the book provides the nuts-and-bolts necessary for an up-to-date understanding of the brain. Covering the general organization of the brain, early chapters explain how cells communicate with one another to enable us to experience the world. The rest of the book touches on higher-level concepts such as vision, perception, language, memory, emotion, and consciousness. Beautifully illustrated and lucidly written, this introduction elegantly reveals the beauty of the organ that makes us uniquely human.

Networks of the Brain Jan 23 2022 An integrative overview of network approaches to neuroscience explores the origins of brain complexity and the link between brain structure and function. Over the last decade, the study of complex networks has expanded across diverse scientific fields. Increasingly, science is concerned with the structure, behavior, and evolution of complex systems ranging from cells to ecosystems. In *Networks of the Brain*, Olaf Sporns describes how the integrative nature of brain function can be illuminated from a complex network perspective. Highlighting the many emerging points of contact between neuroscience and network science, the book serves to introduce network theory to

neuroscientists and neuroscience to those working on theoretical network models. Sporns emphasizes how networks connect levels of organization in the brain and how they link structure to function, offering an informal and nonmathematical treatment of the subject. *Networks of the Brain* provides a synthesis of the sciences of complex networks and the brain that will be an essential foundation for future research.

The Cerebral Circulation Dec 22 2021 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 within the skull. Increased intracranial pressure due to vasogenic edema can cause severe neurologic complications and death.

The Human Brain Book Oct 20 2021 This award-winning science book uses the latest findings from neuroscience research and brain-imaging technology to take you on a journey into the human brain. CGI illustrations and brain MRI scans reveal the brain's anatomy in unprecedented detail. Step-by-step sequences unravel and simplify the complex processes of brain function, such as how nerves transmit signals, how memories are laid down and recalled, and how we register emotions. The book answers fundamental and compelling questions about the brain: what does it mean to be conscious, what happens when we're asleep, and are the brains of men and women different? This is an accessible and authoritative reference book to a fascinating part of the human body. Thanks to improvements in

scanning technology, our understanding of the brain is changing quickly. Now in its third edition, *The Human Brain Book* provides an up-to-date guide to one of science's most exciting frontiers. With its coverage of more than 50 brain-related diseases and disorders--from strokes to brain tumors and schizophrenia--it is also an essential manual for students and healthcare professionals.

Decisions, Uncertainty, and the Brain Apr 13 2021 In this provocative book, Paul Glimcher argues that economic theory may provide an alternative to the classical Cartesian model of the brain and behavior. Glimcher argues that Cartesian dualism operates from the false premise that the reflex is able to describe behavior in the real world that animals inhabit. A mathematically rich cognitive theory, he claims, could solve the most difficult problems that any environment could present, eliminating the need for dualism by eliminating the need for a reflex theory. Such a mathematically rigorous description of the neural processes that connect sensation and action, he explains, will have its roots in microeconomic theory. Economic theory allows physiologists to define both the optimal course of action that an animal might select and a mathematical route by which that optimal solution can be derived. Glimcher outlines what an economics-based cognitive model might look like and how one would begin to test it empirically. Along the way, he presents a

fascinating history of neuroscience. He also discusses related questions about determinism, free will, and the stochastic nature of complex behavior.

Discovering the Brain May 07 2023 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."

Big Brain Book Aug 18 2021

The Functions of the Brain May 03 2020

The Brain Jun 27 2022 Locked in the silence and darkness of your skull, your brain fashions the rich narratives of your reality and your identity. Join renowned neuroscientist David Eagleman for a journey into the questions at the mysterious heart of our existence. What is reality? Who are "you"? How do you make decisions? Why does your brain need other people? How is technology poised to change what it means to be human? In the course of his investigations, Eagleman guides us through the world of extreme sports, criminal justice, facial expressions, genocide, brain surgery, gut feelings, robotics, and the search for immortality. Strap in for a whistle-stop tour into the inner cosmos. In the

infinitely dense tangle of billions of brain cells and their trillions of connections, something emerges that you might not have expected to see in there: you. This is the story of how your life shapes your brain, and how your brain shapes your life. (A companion to the six-part PBS series. Color illustrations throughout.)

Anatomy of the Brain Jun 03 2020 *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*

How the Brain Works Aug 30 2022 The simplest, most visual guide to the brain - ever. Are men's and women's brains really different? Why are teenagers impulsive and rebellious? And will it soon be possible to link our brains together via the Cloud? Drawing on the latest neuroscience research, this visual guide makes the hidden workings of the human brain simple to understand.

How the Brain Works begins with an introduction to the brain's anatomy, showing you how to tell your motor cortex from your mirror neurons. It moves on to function, explaining how the brain works constantly and unnoticed to regulate heartbeat and breathing, and how it collects information to produce the experiences of sight, sound, smell, taste, and touch. The chapters that follow cover memory and learning, consciousness and personality, and emotions and communication. With clear, easy-to-understand graphics and packed with fascinating facts, 'How the Brain Works' demystifies the complex processes of the human brain.

The Brain and Its Physiology; a Critical Disquisition of the Methods of Determining the Relations Subsisting Between the Structure and Functions of the Encephalon Aug 06 2020

Probabilistic Models of the Brain Mar 01 2020 A survey of probabilistic approaches to modeling and understanding brain function.

Neurophysiological, neuroanatomical, and brain imaging studies have helped to shed light on how the brain transforms raw sensory information into a form that is useful for goal-directed behavior. A fundamental question that is seldom addressed by these studies, however, is why the brain uses the types of representations it does and what evolutionary advantage, if any, these representations confer. It is difficult to address such questions directly via animal experiments. A promising alternative is to use

probabilistic principles such as maximum likelihood and Bayesian inference to derive models of brain function. This book surveys some of the current probabilistic approaches to modeling and understanding brain function. Although most of the examples focus on vision, many of the models and techniques are applicable to other modalities as well. The book presents top-down computational models as well as bottom-up neurally motivated models of brain function. The topics covered include Bayesian and information-theoretic models of perception, probabilistic theories of neural coding and spike timing, computational models of lateral and cortico-cortical feedback connections, and the development of receptive field properties from natural signals.

The Human Brain and Spinal Cord Jul 17 2021 This book was written to serve both as a guide for the dissection of the human brain and as an illustrated compendium of the functional anatomy of the brain and spinal cord. In this sense, the book represents an updated and expanded version of the book *The Human Brain and Spinal Cord* written by the author and published in Swedish by Scandinavian University Books in 1961. The complicated anatomy of the brain can often be more easily appreciated and understood in relation to its development. Some insight about the coverings of the brain will also make the brain dissections more meaningful. Introductory chapters on these subjects constitute Part I of

the book. Part 2 is composed of the dissection guide, in which text and illustrations are juxtaposed as much as possible in order to facilitate the use of the book in the dissection room. The method of dissection is similar to dissection procedures used in many medical schools throughout the world, and variations of the technique have been published by several authors including Ivar Broman in the "Manniskohjarnan" (The Human Brain) published by Gleerups F6rlag, Lund, 1926, and Laszlo Komaromy in "Dissection of the Brain," published by Akademiai Kiado, Budapest, 1947. The great popularity of the CT scanner justifies an extra laboratory session for the comparison of nearly horizontal brain sections with matching CT scans.

The Future of the Brain Nov 01 2022 Brain repair, smart pills, mind-reading machines--modern neuroscience promises to soon deliver a remarkable array of wonders as well as profound insight into the nature of the brain. But these exciting new breakthroughs, warns Steven Rose, will also raise troubling questions about what it means to be human. In *The Future of the Brain*, Rose explores just how far neuroscience may help us understand the human brain--including consciousness--and to what extent cutting edge technologies should have the power to mend or manipulate the mind. Rose first offers a panoramic look at what we now know about the brain, from its three-billion-year evolution, to its astonishingly rapid development in the

embryo, to the miraculous process of infant development. More important, he shows what all this science can--and cannot--tell us about the human condition. He examines questions that still baffle scientists and he explores the potential threats and promises of new technologies and their ethical, legal, and social implications, wondering how far we should go in eliminating unwanted behavior or enhancing desired characteristics, focusing on the new "brain steroids" and on the use of Ritalin to control young children. *The Future of the Brain* is a remarkable look at what the brain sciences are telling us about who we are and where we came from--and where we may be headed in years to come.

The Brain in Minutes Nov 20 2021 The brain is considered the most complex structure in all of creation. But recent discoveries in neuroscience are now revealing the inner secrets of the brain--how it works, why it makes us who we are and what happens when it goes wrong. The cutting-edge and comprehensive guide explains why the human brain became so clever; how it controls everything from breathing, sleeping and seeing to identity, imagination, pleasure and pain; and what will happen when the brain integrates with computers or the latest generation discoveries. Award-winning science writer Rita Carter also demystifies amnesia, multiple personalities, psychopathy, dreaming, hallucinations, addiction, autism, dyslexia, schizophrenia, dementia, and

numerous other conditions of the mind. *The Brain in Minutes* covers: the origin and anatomy of the brain; control of the body; mood and emotions; perception; consciousness; memory and learning; personality; intelligence and other higher functions; language; strange states of the mind; malfunctions, disease and treatments; and the future of the brain. It also includes 200 high-tech scans, images, and diagrams that detail and explain the structure and workings of the amazing human brain.

From Conditioning to Conscious Recollection Jan 29 2020 This cutting-edge book offers a theoretical account of the evolution of multiple memory systems of the brain. The authors conceptualize these memory systems from both behavioral and neurobiological perspectives, guided by three related principles. First, that our understanding of a wide range of memory phenomena can be advanced by breaking down memory into multiple forms with different operating characteristics. Second, that different forms of memory representation are supported by distinct brain pathways with circuitry and neural coding properties. Third, that the contributions of different brain systems can be compared and contrasted by distinguishing between dedicated (or specific) and elaborate (or general) memory systems. A primary goal of this work is to relate the neurobiological properties of dedicated and elaborate systems to their neuropsychological counterparts, and in so doing, account for the

phenomenology of memory, from conditioning to conscious recollection.

The Brain: A Very Short Introduction Apr 06 2023
"How does the brain work? Michael O'Shea provides an accessible introduction to the key questions and current state of brain research, and shows that, though we know a surprising amount, we are still far from having a complete understanding. The topics he discusses range from how we sense things and how memories are stored, to the evolution of brains and nervous systems from primitive organisms, as well as altered mental states, brain-computer hybrids, and the future of brain research."--BOOK JACKET.

The Brain Atlas Feb 09 2021 *The Brain Atlas: A Visual Guide to the Human Central Nervous System* integrates modern neuroscience with clinical practice and is now completely revised and updated for a Fourth Edition. Each page uses direct labeling system, including an alphabetical list of terms for each image Presents unrivaled treatment of brain pathways, with colored lines that clearly trace pathways over actual brain slices used earlier in the book Over 400 high quality images, including multiple magnetic resonance images side-by-side with corresponding brain slices Blood supply maps consistently and methodically presented with exhaustive depictions of arteries and blood territory maps next to each brain slice Print edition comes with free access to Wiley companion digital edition accessible on any device, allowing the reader to make notes,

bookmark, follow cross references, and download figures

Brain Facts Jan 03 2023

Glucose Metabolism in the Brain Mar 13 2021

Regulation of glucose at the biochemical level affects every area of the brain, and has impact from cellular to behavioral brain function. It plays an important role in diseases such as diabetes, stroke, schizophrenia and drug abuse as well as in normal and dysfunctional memory and cognition. This volume represents a thorough examination of all the major issues that are relevant to glucose metabolism by brain cells in relation to disease, combining basic research and clinical findings in a single, indispensable reference. Serves as an essential reference on glucose metabolism in the brain Presents authoritative accounts by leading researchers in the field Includes thorough reviews with provocative sections on future directions

Creating Mind Sep 18 2021 What makes us human and unique among all creatures is our brain. Consciousness, perception, emotion, memory, learning, language and intelligence all originate in, and depend on, the brain. During the 20th century, our understanding of the brain has revealed many of the mechanisms by which the brain creates mind and consciousness.

Writing on Both Sides of the Brain Dec 02 2022 A revolutionary approach to writing that will teach you how to express yourself fluently and with confidence for the rest of your life.

The Lives of the Brain Apr 25 2022 Though we have other distinguishing characteristics (walking on two legs, for instance, and relative hairlessness), the brain and the behavior it produces are what truly set us apart from the other apes and primates. And how this three-pound organ composed of water, fat, and protein turned a mammal species into the dominant animal on earth today is the story John S. Allen seeks to tell.

*The Brain Feb 04 2023 The authors of the most cited neuroscience publication, *The Rat Brain in Stereotaxic Coordinates*, have written this introductory textbook for neuroscience students. The text is clear and concise, and offers an excellent introduction to the essential concepts of neuroscience. Based on contemporary neuroscience research rather than old-style medical school neuroanatomy Thorough treatment of motor and sensory systems A detailed chapter on human cerebral cortex The neuroscience of consciousness, memory, emotion, brain injury, and mental illness A comprehensive chapter on brain development A summary of the techniques of brain research A detailed glossary of neuroscience terms Illustrated with over 130 color photographs and diagrams This book will inspire and inform students of neuroscience. It is designed for beginning students in the health sciences, including psychology, nursing, biology, and medicine. Clearly and concisely written for easy comprehension by beginning students Based on*

contemporary neuroscience research rather than the concepts of old-style medical school neuroanatomy Thorough treatment of motor and sensory systems A detailed chapter on human cerebral cortex Discussion of the neuroscience of conscience, memory, cognitive function, brain injury, and mental illness A comprehensive chapter on brain development A summary of the techniques of brain research A detailed glossary of neuroscience terms Illustrated with over 100 color photographs and diagrams

The Brain Book Oct 08 2020 An illustrated guide to the structure, functions and disorders of the human brain The Brain Book combines the latest findings from neuroscience with new brain imaging techniques to reveal the intricate wonder of the human brain. Through unique computer-generated 3D images, brain MRI scans and stunning graphics, you'll enjoy a guided tour of the brain's anatomy in unprecedented detail with this award-winning book. Discover how the brain works, from its function as the hub of the nervous system to brain disorders. Gain insight into such esoteric aspects as behaviour, language and communication and discover the nature of genius. Incisive, clear and authoritative, this updated edition of The Brain Book is an essential human brain manual for students and healthcare professionals, as well as a comprehensive reference book for the family.

Incognito Dec 30 2019 If the conscious mind--the part you consider to be you--is just the tip of

the iceberg, what is the rest doing? In this sparkling and provocative book, renowned neuroscientist David Eagleman navigates the depths of the subconscious brain to illuminate its surprising mysteries. Why can your foot move halfway to the brake pedal before you become consciously aware of danger ahead? Is there a true Mel Gibson? How is your brain like a conflicted democracy engaged in civil war? What do Odysseus and the subprime mortgage meltdown have in common? Why are people whose names begin with J more like to marry other people whose names begin with J? And why is it so difficult to keep a secret? Taking in brain damage, plane spotting, dating, drugs, beauty, infidelity, synesthesia, criminal law, artificial intelligence, and visual illusions, *Incognito* is a thrilling subsurface exploration of the mind and all its contradictions.

The Brain That Changes Itself Jan 11 2021

"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 human brain is immutable, and proving that it is, 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.

Brain Facts Mar 05 2023 Brain Facts is a primer on the brain and nervous system, published by the Society for Neuroscience. Brain Facts is a valuable resource for educators, students, and anyone interesting in learning about neuroscience. Download an audio recording of Brain Facts today, available on BrainFacts.org and through iTunes U. The brain is the most complex biological structure in the known universe. It is a topic rich with exciting new discoveries, continuing profound unknowns, and critical implications for individuals, families, and societies. Learn more about the brain and

nervous system through articles, images, videos, and more on BrainFacts.org, a public information initiative of The Kavli Foundation, the Gatsby Charitable Foundation, and the Society for Neuroscience.

The Brain Book May 15 2021 It's a wrinkly, spongy mass the size of a cauliflower that sits in our heads and controls everything we do! Welcome to the world of the brain... What is the brain made of? How does it work? Why do we need one at all? Discover the answers to these questions and much more in this fun, fact-packed introduction to the brain. Filled with colorful illustrations and bite-sized chunks of information, this book covers everything from the anatomy of the brain and nervous system to how information is collected and sent around the body. Other topics include how we learn, memory, thinking, emotions, animal brains, sleep, and even questions about the brain that are yet to be answered. With entertaining illustrated characters, clear diagrams, and fascinating photographs, children will love learning about their minds and this all-important organ. The Brain Book is an ideal introduction to the brain and nervous system. Perfect for budding young scientists, it is a great addition to any STEAM library.

Neuroergonomics : The Brain at Work Nov 08 2020 Neuroergonomics can be defined as the study of brain and behavior at work. It combines two disciplines--neuroscience, the study of brain

function, and human factors, the study of how to match technology with the capabilities and limitations of people so they can work effectively and safely. The goal of merging these two fields is to use the startling discoveries of human brain and physiological functioning both to inform the design of technologies in the workplace and home, and to provide new training methods that enhance performance, expand capabilities, and optimize the fit between people and technology. Research in the area of neuroergonomics has blossomed in recent years with the emergence of noninvasive techniques for monitoring human brain function that can be used to study various aspects of human behavior in relation to technology and work, including mental workload, visual attention, working memory, motor control, human-automation interaction, and adaptive automation. This volume will provide the first systematic overview of this emerging area, describing the theoretical background, basic research, major methods, as well as the new and future areas of application. This collection will benefit a number of readers: the experienced researcher investigating related questions in human factors and cognitive neuroscience, the student wishing to get a rapid but systematic overview of the field, and the designer interested in novel approaches and new ideas for application. Researchers in human factors and ergonomics, neuroscience, cognitive psychology, medicine, industrial engineering, and computer

science will find this volume most helpful.

Book of the Brain and how it Works Jun 15 2021
"This visually astonishing story takes children on a journey into and through the brain. Simple but beautifully illustrated metaphors explain the different jobs that our brains do, and how they use brain cells to accomplish them. From the senses to sleep, memories to making decisions, this book brings the wonder of brains and brain science to life"--Publisher's description.

Music and the Brain Apr 01 2020 *Music and the Brain: Studies in the Neurology of Music* is a collaborative work that discusses musical perception in the context of medical science. The book is comprised of 24 chapters that are organized into two parts. The first part of the text details the various aspects of nervous function involved in musical activity, which include neural and mechanical aspects of singing; neurophysiological interpretation of musical ability; and ecstatic and synesthetic experiences during musical perception. The second part deals with the effects of nervous disease on musical function, such as musicogenic epilepsy, the amusias, and occupational palsies. The book will be of great interest to students, researchers, and practitioners of disciplines that deal with the nervous system, such as psychology, neurology, and psychiatry.

The Brain Mar 25 2022 An introduction to the world of the human brain and its effect on behavior covers such topics as brain anatomy, the

science of memory, and the latest understanding about the role of lifestyle choices on brain health.

A User's Guide to the Brain Sep 30 2022 Dr John Ratey explores the brain's most important systems, the role they play in determining how we interact with the world and ways in which we can influence their operations for the better. Amazing examples of how the brain works are used throughout.

Phantoms in the Brain Jul 29 2022 Neuroscientist V.S. Ramachandran is internationally renowned for uncovering answers to the deep and quirky questions of human nature that few scientists have dared to address. His bold insights about the brain are matched only by the stunning simplicity of his experiments -- using such low-tech tools as cotton swabs, glasses of water and dime-store mirrors. In *Phantoms in the Brain*, Dr. Ramachandran recounts how his work with patients who have bizarre neurological disorders has shed new light on the deep architecture of the brain, and what these findings tell us about who we are, how we construct our body image, why we laugh or become depressed, why we may believe in God, how we make decisions, deceive ourselves and dream, perhaps even why we're so clever at philosophy, music and art. Some of his most notable cases: A woman paralyzed on the left side of her body who believes she is lifting a tray of drinks with both hands offers a unique opportunity to test Freud's theory of denial. A man who insists he is

talking with God challenges us to ask: Could we be "wired" for religious experience? A woman who hallucinates cartoon characters illustrates how, in a sense, we are all hallucinating, all the time. Dr. Ramachandran's inspired medical detective work pushes the boundaries of medicine's last great frontier -- the human mind -- yielding new and provocative insights into the "big questions" about consciousness and the self.

Prostheses for the Brain Jul 05 2020 Prostheses for the Brain: Introduction to Neuroprosthetics bridges the disciplines required in the field of neuroprosthetics and provides the interdisciplinary base required for understanding neuroprosthetic devices. It introduces basic aspects from the physical, bioengineering and medical perspectives, and forms a common knowledge base. It provides the entrance to the field and sets realistic expectations, both regarding potentials as well as limitations, for the devices in both design and outcomes. The book additionally reviews the technology behind the most frequently used and most clinically successful neuroprosthetic devices. It provides the physiological background for their function, as well as the technology behind them. Finally, the authors suggest future possible developments that may play crucial role in new prostheses for the brain. This gives the reader a comprehensive view on the principles and applications of neuroprostheses. This book has been built from the authors course they teach on neuroprostheses

and is ideal for students, engineers and medical professionals in this field. Introduces the general principles of conductivity of electrolytes and the processes at the tissue-electrode interface Describes safety issues and regulatory rules, clarifies conceptual differences between stimulating and sensing electrodes Reviews stimulation strategies, tissue reactions, potential medical complications, brain adaptations and the clinically most successful applications of neuroprostheses

Who's Who of the Brain Sep 06 2020 Meet the inhabitants of the brain in this reader-friendly introduction to what it is and how it works. Residents include Frederick Foresight (the frontal cortex), Mayor of Cephalton-upon-Ridge, who is the 'big picture' person responsible for planning and decision-making; Sage Seahorse (the hippocampus), who has an astonishing memory for times, names and places; Annie Almond (the amygdala), the community's alarm system who is always on the alert; and many other fellow citizens. Each character is introduced and their appearance, role and key functions in the brain explained. The authors also show what happens when things go wrong in the brain, and illustrate the work using examples of classic clinical cases. This book provides an immediate and entertaining way for anyone to gain a basic understanding or to refresh their knowledge of the inside workings of the brain.

Rhythms of the Brain Dec 10 2020 This book

provides eloquent support for the idea that spontaneous neuron activity, far from being mere noise, is actually the source of our cognitive abilities. In a sequence of "cycles," György Buzsáki guides the reader from the physics of oscillations through neuronal assembly organization to complex cognitive processing and memory storage. His clear, fluid writing—accessible to any reader with some scientific knowledge—is supplemented by extensive footnotes and references that make it just as gratifying and instructive a read for the specialist. The coherent view of a single author who has been at the forefront of research in this exciting field, this volume is essential reading for anyone interested in our rapidly evolving understanding of the brain.

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