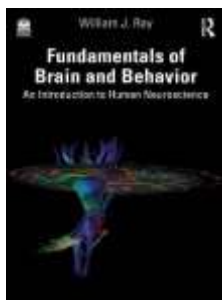


Fundamentals of Brain and Behavior



v měkké vazbě, 556 stran
vyd. Taylor & Francis Ltd, II/2024
ISBN 9781032210254

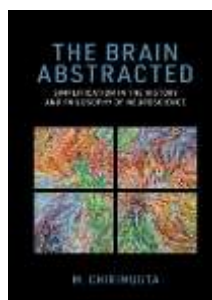
katalog.cena 1.920 Kč
v této nabídce **1.390 Kč**

Fundamentals of Brain and Behavior provides an accessible introduction to the study of human neuroscience. The book has been carefully designed to accompany a typical entry-level course, covering core topics including the function and structure of the nervous system, basic human motivations, stress and health, and cognitive functioning. In addition to traditional topics, the book also includes dedicated chapters on the social brain, neurocognitive disorders, and brain imaging techniques, ensuring students gain a thorough understanding of the field in its broadest sense.

An evolutionary approach is also taken throughout, providing a truly unique perspective on our understanding of brain and behavior. The text is supported by colorful and informative diagrams, alongside a plethora of student-friendly features such as learning objectives, case studies, and concept checks. The book is also supported by online resources including basics of neuroscience videos.

Helping students understand the basics of human neuroscience across evolutionary time, Fundamentals of Brain and Behavior is an essential text for all students of Behavioral Neuroscience, especially those approaching the subject for the first time.

Brain Abstracted

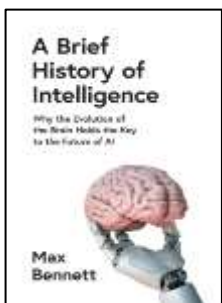


v měkké vazbě, 360 stran
vyd. MIT Press Ltd, III/2024
ISBN 9780262548045

katalog. cena 1.420 Kč
v této nabídce **1.040 Kč**

All science needs to simplify, but when the object of research is something as complicated as the brain, this challenge can stretch the limits of scientific possibility. In fact, in *The Brain Abstracted*, an avowedly "opinionated" history of neuroscience, M. Chirimuuta argues that, due to the brain's complexity, neuroscientific theories have only captured partial truths—and "neurophilosophy" is unlikely to be achieved. Looking at the theory and practice of neuroscience, both past and present, Chirimuuta shows how the science has been shaped by the problem of brain complexity and the need, in science, to make things as simple as possible. From this history, Chirimuuta draws lessons for debates in philosophy of science over the limits and definition of science and in philosophy of mind over explanations of consciousness and the mind-body problem.

Brief History of Intelligence



v měkké vazbě, 432 stran
vyd. Harper Collins Publishers, X/2023
ISBN 9780008560102

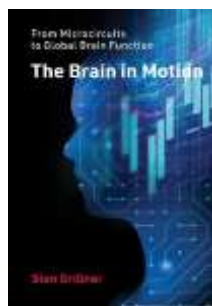
katalog.cena 500 Kč
v této nabídce **380 Kč**

A Brief History of Intelligence bridges the gap between AI and neuroscience by telling the evolutionary story of how the brain came to be. The entirety of the human brain's 4-billion-year story can be summarised as the culmination of five evolutionary breakthroughs, starting from the very first brains, all the way to the modern human brains. Each breakthrough emerged from new sets of brain modifications, and equipped animals with a new suite of intellectual faculties. These five breakthroughs are the organising map to this book, and they make up our itinerary for our adventure back in time. Each breakthrough also has fascinating corollaries to breakthroughs in AI.

Indeed, there will be plenty of such surprises along the way. For instance: the innovation that enabled AI to beat humans in the game of Go - temporal difference reinforcement learning - was an innovation discovered by our fish ancestors over 500 million years ago. The solutions to many of the current mysteries in AI - such as 'common sense' - can be found in the tiny brain of a mouse.

Where do emotions come from? Research suggests that they may have arisen simply as a solution to navigation in ancient worm brains. Unravelling this evolutionary story will reveal the hidden features of human intelligence and with them, just how your mind came to be

Brain in Motion



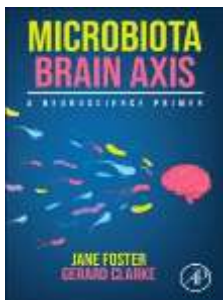
v pevné vazbě, 286 stran
vyd. MIT Press Ltd, X/2023
ISBN 9780262048200

katalog.cena 1.680 Kč
v této nabídce **1.240 Kč**

All living creatures interact with their environment: even the most basic have a set of innate motor circuits they rely on to feed, locomote, fight, and flee. In *The Brain in Motion*, Sten Grillner describes the evolution of the motor repertoire of vertebrates, from protovertebrates to primates. With breadth and depth, Grillner explores how the brain uses the different microcircuits in the brainstem and spinal cord, coordinating them through commands from the forebrain. He also considers the normal function of the brain as a platform for understanding clinical conditions such as stroke, Parkinson's and Huntington's diseases, and spinal cord injury.

Grillner also explains in *The Brain in Motion* how the remarkable finding that the lamprey forebrain has all the components of the mammalian one has radically changed scientists' views on the evolutionary origin of the vertebrate forebrain. We now know that the basic organization evolved 560 rather than 300 million years ago, as was previously thought. The forebrain, says Grillner, is like an orchestra conductor, while the microcircuits, with their reaching, grasping, posture, locomotion, and numerous other patterns of behavior, correspond to the members of the orchestra. The conductor determines when each will be called into action.

Microbiota Brain Axis: Neuroscience Primer

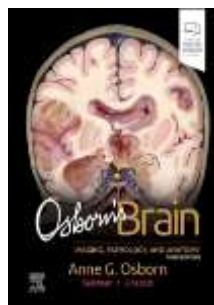


v měkké vazbě, 278 stran
vyd. Academic Press Inc, II/2024
ISBN 9780128148006

katalog.cena 2.890 Kč
v této nabídce **2.100 Kč**

Microbiota Brain Axis: A Neuroscience Primer provides neuroscience researchers with a comprehensive guide on how to conduct effective microbiota-brain research, understand the appropriate methodologies, and collect and analyze microbiota data. The book begins with an introduction to the importance of the microbiota-brain communication in development and how microbiota impact neurodevelopmental disorders, mental health and neurodegeneration. In addition, the book discusses advances in microbiota analysis tools and techniques for neuroscience related research.

Osborn's Brain



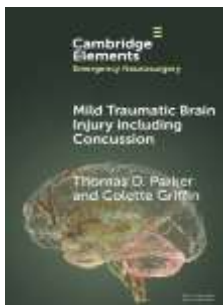
v pevné vazbě, 960 stran
vyd. Elsevier Health Sciences, XI/2023
ISBN 9780443109379

katalog.cena 8.770 Kč
v této nabídce **6.400 Kč**

Combining informative, meticulously crafted prose with more than 4,000 high-quality images, Osborn's Brain, third edition, is a comprehensive, easy to understand, and visually stunning learning curriculum from highly esteemed author Dr. Anne G. Osborn.

This fully revised edition provides a solid framework for understanding the complex subject of brain imaging, integrating relevant information from Dr. Osborn's entire career of accumulated knowledge, experience, and interest in neuropathology, neurosurgery, and clinical neurosciences. While neuroradiologists will find intriguing, thought-provoking insights included especially for them in every chapter, Osborn's Brain is an excellent review resource for physicians at all levels of expertise—from seasoned radiologists and neurosurgeons to new and senior residents or fellows..

Mild Traumatic Brain Injury including Concussion



v měkké vazbě, 24 stran
vyd. Cambridge University Press, I/2024
ISBN 9781009380096

katalog.cena 500 Kč
v této nabídce **380 Kč**

Most traumatic brain injury (TBI) cases are considered mild. Precise definitions vary, but typically, loss of consciousness and post-traumatic amnesia duration is brief (e.g. <30 minutes and <24 hours respectively), and standard imaging is normal.

Prognosis in mild TBI is generally good, but disabling persistent symptoms such as headaches, dizziness, affective and cognitive issues are common. A focussed assessment tailored to each individual symptom is crucial for management. Advanced MRI and blood-based biomarkers of mild TBI are emerging and are likely to play an increasingly important role in the assessment of patients following a head injury.

Psychology of Teenage Brain



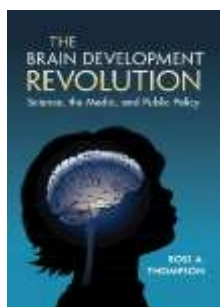
v měkké vazbě, 106 stran
vyd. Taylor & Francis Ltd, XII/2023
ISBN 9781032363950

katalog.cena 380 Kč
v této nabídce **280 Kč**

Why do teenagers stay up late and struggle to get up in the morning? Do teenagers really take more risks? What is happening with teenagers' hormones? The Psychology of the Teenage Brain offers all those involved in teenagers' lives insight into what's happening in their brains and how understanding them can improve relationships and communication at this crucial stage. It explains key topics, including the way the brain changes during adolescence, the role of hormones, and what we really know about risk and resilience, sleep and peer pressure. It challenges the stereotype of the "snowflake generation" and explores young people's mental health.

Written for all parents and caregivers, this book will help with the challenges of having a teenager in the home. It also offers crucial understanding for all students and practising professionals in the fields of social work, counselling, health and education who work with teenagers.

Brain Development Revolution



v měkké vazbě, 250 stran
vyd. Cambridge University Press, IX/2023
ISBN 9781009304245

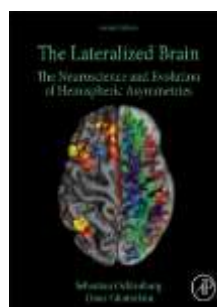
katalog.cena 680 Kč
v této nabídce **500 Kč**

The science of human development informs our thinking about children and their development. The Brain Development Revolution asks how and why has brain development become the major lens for understanding child development, and its consequences. It describes the 1997 I Am Your Child campaign that engaged public attention through a sophisticated media communications effort, a White House conference, and other events.

It explores the campaign's impact, including voter initiatives to fund early childhood programs and a national campaign for prekindergarten education, but also several missed opportunities. The study examines why brain development compels our attention, why we are – but shouldn't be – neurodeterminists, and the challenges of communicating developmental brain science. This book examines the framing of the brain development story, the selectivity of the messaging, and overpromising the results of early programs.

Lastly, it discusses proposals for how science communication can be improved to better serve children and the public.

Lateralized Brain



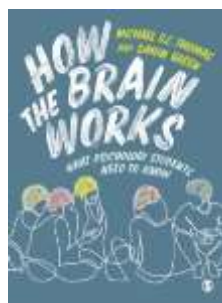
v měkké vazbě, 468 stran
vyd. Academic Press Inc, II/2024
ISBN 9780323997379

katalog.cena 3.400 Kč
v této nabídce **2.500 Kč**

The second edition of The Lateralized Brain: The Neuroscience and Evolution of Hemispheric Asymmetries provides for readers a volume detailing the functional and structural differences between the left and right hemispheres of the brain, highlighting how the widespread use of modern neuroimaging techniques such as fMRI and DTI have completely changed the way hemispheric asymmetries are currently investigated. In this new edition, all chapters have been updated with recent advances in the field, and a new chapter on hemispheric asymmetries in development and aging has been integrated. Also featured is a new, larger section on laterality in social behavior, alongside a comprehensive overview about key topics in laterality research, including its history, evolutionary perspectives, brain structure, and the role of the corpus callosum.

Chapters cover functional hemispheric asymmetries in language processing, motor behavior, spatial attention, self- and face-perception, emotion processing, and social behavior. Additional topics include the ontogenesis of hemispheric asymmetries and their development over the life span, as well as sex differences and associations with clinical syndromes. This volume can be used by anyone working on hemispheric biology or in courses on hemispheric asymmetries

How Brain Works



v měkké vazbě, 296 stran
vyd. Sage, X/2023
ISBN 9781529741940

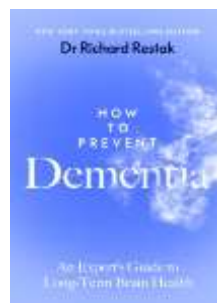
katalog.cena 560 Kč
v této nabídce **410 Kč**

Delve into the intricacies of the human mind with this engaging and insightful guide to how the brain works. Written in a playful style and beautifully illustrated, this book is designed to support you as you embark on the beginning of your psychology degree. It provides an accessible guide to how the brain's structures and functions determine how the mind works, and how this fits into the bigger picture of our evolution and biology as a species.

From focus boxes that delve into specific topics to entertaining puzzles that bring the subject to life, this book will captivate your imagination while building your understanding of biological and cognitive psychology. This is an essential read for undergraduate psychology students. Á Michael S.C.

Thomas is Professor of Cognitive Neuroscience at Birkbeck, University of London. Simon Green is a Chartered Psychologist and retired Senior Lecturer in Psychology at Birkbeck, University of London.

How to Prevent Dementia



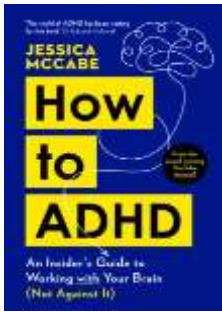
v měkké vazbě, 224 stran
vyd. Penguin Books Ltd, I/2024
ISBN 9780241688861

katalog.cena 500 Kč
v této nabídce **380 Kč**

The comprehensive guide to preventing Alzheimer's and other thinking disorders, from the leading authority and bestselling author of The Complete Guide to Memory, Dr Richard Restak. According to the WHO, Alzheimer's ranks as the seventh leading cause of death globally. By 2050, or earlier in the absence of a breakthrough, the number of people aged 65 and older with Alzheimer's is projected to reach 12.7 million people.

But the more you know about dementia, the more tools you'll have to prevent or delay its onset – and the more thoughtfully you'll be able to understand and interact with loved ones living with the condition. In How to Prevent Dementia, top neurologist Dr Richard Restak arms us with practical advice for how to reduce the risk factors - from better sleep, diet, regular exercise and physical activity to the importance of maintaining social networks and intellectual stimulation, as well as the advantages and disadvantages of new medicines. Dementias exist on a continuum and by understanding the steps we can take to lessen the odds of developing disease, the illness becomes less anxiety-inducing to comprehend, and we change our understanding of thinking, forever.

How to ADHD

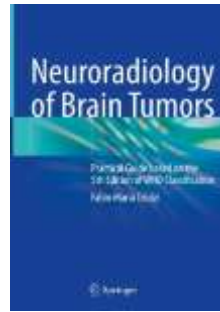


v měkké vazbě, 464 stran
vyd. Profile Books Ltd, III/2024
ISBN 9781805221258

katalog.cena 590 Kč
v této nabídce **420 Kč**

THE NEW YORK TIMES BESTSELLER Jessica McCabe changed my life for the better with her kind, bright and thoroughly researched ADHD videos - and now with her book, she just might change yours too' KAT BROWN, AUTHOR OF IT'S NOT A BLOODY TREND: UNDERSTANDING LIFE AS AN ADHD ADULT'The world of ADHD has been waiting for this book' DR EDWARD HALLOWELL, NEW YORK TIMES BESTSELLING CO-AUTHOR OF ADHD 2.0 AND DRIVEN TO DISTRACTION**From the host and creator of the award-winning HOW TO ADHD YouTube channel**In How to ADHD, Jessica McCabe reveals the insights and tools that have changed her life, while offering an unflinching look at the realities of every day with ADHD. Sharing stories of her struggles with the condition, which spiralled as she approached adulthood, Jessica offers expert-backed guidance for adapting your environment, routines and systems to work with the ADHD brain, including how to:- boost your organisational skills and learn why doing more starts with doing less- facilitate your focus and fight distractions by decreasing the noise- build your time wisdom by planning backwards to prioritise more effectivelyPresented in an ADHD-friendly design and packed with practical advice and tools, How to ADHD is an affirming, warm and helpful guide that will help you recognise your challenges, tackle 'bad brain days', and to ultimately be kinder to yourself..

Neuroradiology of Brain Tumors



v pevné vazbě, 238 stran
vyd. Springer, XI/2023
ISBN 9783031381522

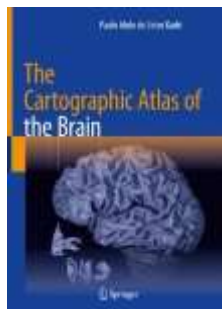
katalog.cena 3.540 Kč
v této nabídce **2.490 Kč**

While several books describing imaging of brain tumors from MR acquisition techniques to differential diagnosis are written by different contributors and present chapters with different styles and design, this book illustrates a unique vision and structure putting together modern molecular classification of brain tumor with modern neuroradiology. After an introduction on general imaging features of brain tumors the book explores each different tumor according to 2021 WHO classification, distinguishing however between adult and pediatric tumors, being the epidemiology substantially different between these two groups. The approach is schematic with few essential information on epidemiology, genetics, clinical features, location and prognosis, followed by a detailed description of imaging features with a large number of examples.

Figures are mainly put together with the same modality considering all the different MR techniques as well as CT when it can be useful. Each figure provides T1, T2, FLAIR, DWI, ADC, Δ perfusion Δ imaging techniques, spectroscopy and post contrast study. Some examples of Amide Proton Transfer (APT) technique are provided as well.

At the end of each chapter a scheme summarizes the different appearance of the tumor in any different sequence. This book will be an invaluable tool for neuroradiologists, radiologists, neurosurgeons, neurologists, pediatricians, and pathologists.

Cartographic Atlas of Brain



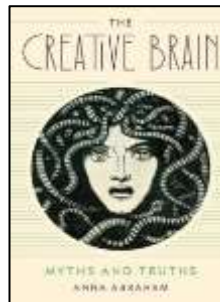
v pevné vazbě, 454 stran
vyd. Springer, XI/2023
ISBN 9783031380617

katalog.cena 4.050 Kč
v této nabídce **3.000 Kč**

Neuroanatomy is considered one of the most complex subjects in the field of anatomy. The reliable literature for students is limited to classical anatomical books, many of them re-editions of publications from the previous century, with black-and-white illustrations or computer-generated images. In this sense, the literature lacks a neuroanatomical atlas depicting the brain's surface anatomy and intrinsic anatomy with actual anatomical preparations. This illustrated and concise book is designed to fill the gap by providing high-quality photographs of actual anatomical preparations of the entire central nervous system.

It is organized into eight chapters and presents high-definition photographs of thoroughly labeled anatomical preparations. The Cartographic Atlas of the Brain is intended to benefit medical students, residents and practitioners of Neurology, Neurosurgery, Neuroanatomy, Radiology, Neurobiology and other branches of the Neurosciences.

Creative Brain: Myths and Truths



v měkké vazbě, 280 stran
vyd. MIT Press Ltd, IV/2024
ISBN 9780262548007

katalog.cena 1.120 Kč
v této nabídce **820 Kč**

What is the relationship between creativity and madness? Creativity and intelligence? Do psychedelics truly enhance creativity? How should we understand the left and right hemispheres of the brain? Is the left brain, in fact, the seat of reasoning and the right brain the seat of creativity? These are just some of the questions Anna Abraham, a renowned expert of human creativity and the imagination, explores in The Creative Brain, a fascinating deep dive into the origins of the seven most common beliefs about the human brain. Rather than endorse or debunk these myths, Abraham traces them back to their origins to explain just how they started and why they spread—and what at their core is the truth.

Drawing on theoretical and empirical work in cognitive psychology and neuroscience, Abraham offers an examination of human creativity that reveals the true complexity underlying our conventional beliefs about the brain. The chapters in the book explore the myth of the right brain as the hemisphere responsible for creativity; the relationship between madness and creativity, psychedelics and creativity, atypical brains and creativity, and intelligence and creativity; the various functions of dopamine; and lastly, the default mode revolution, which theorized that the brain regions most likely to be involved in the creative process are those areas of the brain that are most active during rest or mind-wandering.