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KEITH LILLIANNA

Brains as Engines of Association FT Press

Modern Discoveries in Neuroscience... And What They Reveal About You (Collection) FT Press

Cognition, Brain, and Consciousness Human Kinetics Publishers

This book is the second volume of autobiographical essays by distinguished senior neuroscientists; it is part of the first collection of neuroscience writing that is primarily autobiographical. As neuroscience is a young discipline, the contributors to this volume are truly pioneers of scientific research on the brain and spinal cord. This collection of fascinating essays should inform and inspire students and working scientists alike. The general reader interested in science may also find the essays absorbing, as they are essentially human stories about commitment and the pursuit of knowledge. The contributors included in this volume are: Lloyd M. Beidler, Arvid Carlsson, Donald R. Griffin, Roger Guillemin, Ray Guillery, Masao Ito, Martin G. Larrabee, Jerome Lettvin, Paul D. MacLean, Brenda Milner, Karl H. Pribram, Eugene Roberts and Gunther Stent. Key Features * Second volume in a collection of neuroscience writing that is primarily autobiographical * Contributors are senior neuroscientists who are pioneers in the field

Fetal and Neonatal Physiology for the Advanced Practice Nurse Oxford University Press

Proficiency with using Excel® is a key skill set students need when going on to graduate school in the behavioral sciences. Students struggle to understand core statistical concepts, and there is a need for resources that help make statistical concepts accessible in an appealing way. Privitera and Mayeaux's Revealing Core Statistical Concepts in Excel®: An Interactive Modular Approach is a flexible textbook for introductory students. The text jointly promotes an understanding of Excel® and a deeper knowledge of core concepts through practice. Each chapter begins with introductory vignettes designed to disarm student apprehension. These stories are paired with step-by-step exercises and recurring toolkit pedagogy to help students better understand core statistical concepts within Excel® through actual examples.

How to Develop Independent Thinkers Using Relationships, Resilience, and Reflection Guilford Press

Psychology is of interest to academics from many fields, as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do. This award-winning twelve-volume reference covers every aspect of the ever-fascinating discipline of psychology and represents the most current knowledge in the field. This ten-year revision now covers discoveries based in neuroscience, clinical psychology's new interest in evidence-based practice and mindfulness, and new findings in social, developmental, and forensic psychology.

Introduction to Cognitive Neuroscience Garland Science

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred to as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

Teaching Change Springer Publishing Company

Why should psychologists and educators study the brain? Can neuroscientific research advance our understanding of student learning and motivation? What do informed readers need to know to tell the difference between plausible applications of brain research and unfounded speculation? This timely volume considers the benefits of incorporating findings from cognitive neuroscience into the fields of educational, developmental, and cognitive psychology. The book provides a basic foundation in the methodology of brain research; describes the factors that affect brain development; and reviews salient findings on attention, memory, emotion, and reading and mathematics. For each domain, the author considers the ways that the neuroscientific evidence overlaps with or diverges from existing psychological models. Readers gain skills for assessing the credibility of widely publicized claims regarding critical periods of learning, the effects of stress hormones on the brain, the role of music training in boosting academic performance, and more. Also elucidated are the possible neuroscientific bases of attention deficits, reading problems, and mathematical disabilities in children. The volume concludes by suggesting areas for future investigation that may help answer important questions about individual and developmental differences in learning.

Vision and Brain Routledge

3 remarkable books reveal what neuroscientists have just learned about your brain — and you! Neuroscientists have made absolutely stunning discoveries about the brain: discoveries that are intimately linked to everything from your health and happiness to the age-old debate on free will. In these three extraordinary books, leading scientists and science journalists illuminate these discoveries, helping you understand what they may mean — and what may come next. In Brains: How They Seem to Work, Dale Purves reviews the current state of neuroscientific research, previewing a coming paradigm shift that may transform the way scientists think about brains yet again. Building on new research on visual perception, he shows why common ideas about brain networks can't be right, uncovers the factors that determine our subjective experience, sheds new light on the so-called “ghost in the machine,” and points towards a far deeper understanding of what it means to be human. Next, in Pictures of the Mind, Miriam Boleyn-Fitzgerald uses images from the latest fMRI and PET scanners to illuminate science's new understanding of the brain as amazingly flexible, resilient, and plastic. Through masterfully written narrative and stunning imagery, you'll watch human brains healing, growing, and adapting... gain powerful new insights into the interplay between environment and genetics... begin understanding how people can influence their own intellectual abilities and emotional makeup... and join scientists in tantalizing discoveries about everything from coma to PTSD and Alzheimer's. Finally, in The Root of Thought, Andrew Koob shows why glial cells — once thought to be merely “brain glue” — may actually hold the key to understanding intelligence, treating psychiatric disorders and brain injuries, and perhaps even curing Alzheimer's and Parkinson's. You'll learn how these crucial cells grow and develop... why almost all brain tumors are comprised of them... and even their apparent role in your every thought and dream! From world-renowned scientists and science journalists, including Dale Purves, Miriam Boleyn-Fitzgerald, and Andrew Koob

Handbook of Psychology, Behavioral Neuroscience Hachette Books

Principles of Neurobiology, Second Edition presents the major concepts of neuroscience with an emphasis on how we know what we know. The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper-level undergraduate and graduate students discover the relevant primary literature. Written by a single author in a clear and consistent writing style, each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach. Students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester-long course. Principles of Neurobiology is accompanied by a rich package of online student and instructor resources including animations, figures in PowerPoint, and a Question Bank for adopting instructors.

Principles of Neural Development MIT Press

Language is one of our most precious and uniquely human capacities, so it is not surprising that research on its neural substrates has been advancing quite rapidly in recent years. Until now, however, there has not been a single introductory textbook that focuses specifically on this topic. Cognitive Neuroscience of Language fills that gap by providing an up-to-date, wide-ranging, and pedagogically practical survey of the most important developments in the field. It guides students through all of the major areas of investigation, beginning with fundamental aspects of brain structure and function, and then proceeding to cover aphasia syndromes, the perception and production of speech, the processing of language in written and signed modalities, the meanings of words, and the formulation and comprehension of complex expressions, including grammatically inflected words, complete sentences, and entire stories. Drawing heavily on prominent theoretical models, the core chapters illustrate how such frameworks are supported, and sometimes challenged, by experiments employing diverse brain mapping techniques. Although much of the content is inherently challenging and intended primarily for graduate or upper-level undergraduate students, it requires no previous knowledge of either neuroscience or linguistics, defining technical terms and explaining important principles from both disciplines along the way.

A Concise Introduction Sinauer Associates, Incorporated

An engaging introduction to the science of vision that offers a coherent account of vision based on general information processing principles In this accessible and engaging introduction to modern vision science, James Stone uses visual illusions to explore how the brain sees the world. Understanding vision, Stone argues, is not simply a question of knowing which neurons respond to particular visual features, but also requires a computational theory of vision. Stone draws together results from David Marr's computational framework, Barlow's efficient coding hypothesis, Bayesian inference, Shannon's information theory, and signal processing to construct a coherent account of vision that explains not only how the brain is fooled by particular visual illusions, but also why any biological or computer vision system should also be fooled by these illusions. This short text includes chapters on the eye and its evolution, how and why visual neurons from different species encode the retinal image in the same way, how information theory explains color aftereffects, how different visual cues provide depth information, how the imperfect visual information received by the eye and brain can be rescued by Bayesian inference, how different brain regions process visual information, and the bizarre perceptual consequences that result from damage to these brain regions. The tutorial style emphasizes key conceptual insights, rather than mathematical details, making the book accessible to the nonscientist and suitable for undergraduate or postgraduate study.

From Vesalius to Modern Neuroscience MIT Press

The study of neurofeedback and neuromodulation offer a window into brain physiology and function, suggesting innovative approaches to the improvement of attention, anxiety, pain, mood and behavior. Resources for understanding what neurofeedback and neuromodulation are, how they are used, and to what disorders and patients they can be applied are scarce, and this volume serves as an ideal tool for clinical researchers and

practicing clinicians in both neuroscience and psychology to understand techniques, analysis, and their applications to specific patient populations and disorders. The top scholars in the field have been enlisted, and contributions offer both the breadth needed for an introductory scholar and the depth desired by a clinical professional. Includes the practical application of techniques to use with patients Includes integration of neurofeedback with neuromodulation techniques Discusses what the technique is, for which disorders it is effective, and the evidence basis behind its use Written at an appropriate level for clinicians and researchers

The Student's Guide to Cognitive Neuroscience Elsevier

Reflecting recent changes in the way cognition and the brain are studied, this thoroughly updated third edition of the best-selling textbook provides a comprehensive and student-friendly guide to cognitive neuroscience. Jamie Ward provides an easy-to-follow introduction to neural structure and function, as well as all the key methods and procedures of cognitive neuroscience, with a view to helping students understand how they can be used to shed light on the neural basis of cognition. The book presents an up-to-date overview of the latest theories and findings in all the key topics in cognitive neuroscience, including vision, memory, speech and language, hearing, numeracy, executive function, social and emotional behaviour and developmental neuroscience, as well as a new chapter on attention. Throughout, case studies, newspaper reports and everyday examples are used to help students understand the more challenging ideas that underpin the subject. In addition each chapter includes: Summaries of key terms and points Example essay questions Recommended further reading Feature boxes exploring interesting and popular questions and their implications for the subject. Written in an engaging style by a leading researcher in the field, and presented in full-color including numerous illustrative materials, this book will be invaluable as a core text for undergraduate modules in cognitive neuroscience. It can also be used as a key text on courses in cognition, cognitive neuropsychology, biopsychology or brain and behavior. Those embarking on research will find it an invaluable starting point and reference. The Student's Guide to Cognitive Neuroscience, 3rd Edition is supported by a companion website, featuring helpful resources for both students and instructors.

Fundamental Neuroscience Academic Press

Written for neonatal and pediatric nurse practitioner students, *Fetal and Neonatal Physiology for the Advanced Practice Nurse* explores the developmental physiology of premature and term infants and presents common diseases that affect this specialized population. This unique text offers an innovative and engaging approach to learning normal and abnormal physiology to prepare students for their roles as resourceful and informed problem-solvers, caregivers, and health promoters. Part One introduces core concepts including fetal origins of disease, genetic inheritance patterns, and placental physiology. Part Two investigates each major human body system. Finally, Part Three offers an exploration into the transition to extrauterine life and common challenges for perinatal and neonatal clinicians. With a multitude of student learning resources and tools, *Fetal and Neonatal Physiology for the Advanced Practice Nurse* promotes contemplative thinking, understanding, and retention. Every chapter includes learning objectives for guidance, advice from the authors, and a mind map to visualize difficult concepts. Written by junior and senior nurses and physicians, this text embodies the interprofessional approach associated with optimal outcomes. Chapter podcasts and discussion questions are included with the text to actively integrate written content and engage students using multisensory teaching methods. Key Features Presents a concise, visual and interactive presentation of a challenging subject Designed specifically to accommodate a semester-long course Contains numerous illustrations depicting fetal development and physiology of the different body systems Each chapter contains reflective questions and other interactive learning resources Incorporates genetics and pathophysiologic correlations Meets the nationally-recognized accreditation requirements for APN physiology coursework

Core Statistical Concepts With Excel® Psychology Press

Discusses theories and physiology relevant to the manual treatment of chronic pain, especially as it regards the soft tissues of the upper body. Includes step-by-step protocols that address each muscle of a region and a regional approach to treatment, and gives a structural review of each region, including ligaments and functional anatomy.

Neurofeedback and Neuromodulation Techniques and Applications SAGE Publications

Electrophysiology is one of the finest approaches capable of detecting and analyzing electrical events in the brain. However, like all other experimental approaches, it has its limitations. This book was created to serve as a guide for those endeavoring to understand the function of electrophysiology and its underlying components: neurons, neural systems, and the brain. It introduces and highlights important topics in the field of electrophysiology, while also extending these topics to practical electrophysiological approaches through the perspective of the two authors. This book is ideal for graduate students or junior postdoctoral fellows interested in starting a journey in synaptic neuroscience.

A Clinician's Guide for Working with Emotions Elsevier

Beau Lotto, the world-renowned neuroscientist, entrepreneur, and two-time TED speaker, takes us on a tour of how we perceive the world, and how disrupting it leads us to create and innovate. Perception is the foundation of human experience, but few of us understand why we see what we do, much less how. By revealing the startling truths about the brain and its perceptions, Beau Lotto shows that the next big innovation is not a new technology: it is a new way of seeing. In his first major book, Lotto draws on over two decades of pioneering research to explain that our brain didn't evolve to see the world accurately. It can't! Visually stunning, with entertaining illustrations and optical illusions throughout, and with clear and comprehensive explanations of the science behind how our perceptions operate, *Deviante* will revolutionize the way you see yourself, others and the world. With this new understanding of how the brain functions, *Deviante* is not just an illuminating account of the neuroscience of thought, behavior, and creativity: it is a call to action, enlisting readers in their own journey of self-discovery.

An Advanced Textbook Psychology Press

Technology's influence upon our sense of self and our consciousness of the world around us has been a subject of increasing concern in recent years. Offering a provocative new perspective, this deeply personal book by the late Alan C. Purves, renowned literacy scholar and English educator, embraces as its focus the electronic medium known as hypertext. Elucidating vital connections between the written word and how human beings think, communicate, and worship, Purves thoughtfully examines how this new kind of writing has led to a new relationship between reader and text. The book engagingly draws upon hypertextual writing strategies to probe the ways conventions of authorship, narrative, and textually based religious traditions are transformed. Also considered is the impact of electronic networks upon human communities, including communities of faith.

Astrocytes in Psychiatric Disorders Academic Press

This affordable paperback course textbook has been adapted from the landmark four-volume *Handbook of Applied Developmental Science* (SAGE 2003). In 20 chapters, *Applied Developmental Science: An Advanced Textbook* brings together the latest in theory and application from applied developmental science and the positive psychology movement. This advanced text summarizes and synthesizes the best scientific knowledge from ADS to help readers understand the efforts being made around the world to ensure that all children and adolescents develop into healthy adults who contribute positively to society.

Neuroscience- Fifth Edition Cengage Learning

This textbook offers a concise introduction to the exciting field of developmental neuroscience, a discipline concerned with the mechanisms by which complex nervous systems emerge during embryonic growth. Bridging the divide between basic and clinical research, it captures the extraordinary progress that has been achieved in the field. It provides an opportunity for students to apply and extend what they have learned in their introductory biology courses while also directing them to the primary literature. This accessible textbook is unique in that it takes an in-depth look at a small number of key model systems and signaling pathways. The book's chapters logically follow the sequence of human brain development and explain how information obtained from models such as *Drosophila* and zebrafish addresses topics relevant to this area. Beginning with a brief presentation of methods for studying neural development, the book provides an overview of human development, followed by an introduction to animal models. Subsequent chapters consider the molecular mechanisms of selected earlier and later events, neurogenesis, and formation of synapses. Glial cells and postembryonic maturation of the nervous system round out later chapters. The book concludes by discussing the brain basis of human intellectual disabilities viewed from a developmental perspective. Focusing on the mechanistic and functional, this textbook will be invaluable to biology majors, neuroscience students, and premedical and pre-health-professions students. An accessible introduction to nervous system development Suitable for one-semester developmental neuroscience course Thorough review of key model systems Selective coverage of topics allows professors to personalize courses Investigative reading exercises at the end of each chapter An online illustration package is available to professors

The Handy Science Answer Book Basic Books

Cognitive Systems - Information Processing Meets Brain Science presents an overview of the exciting, truly multidisciplinary research by neuroscientists and systems engineers in the emerging field of cognitive systems, providing a cross-disciplinary examination of this cutting-edge area of scientific research. This is a great example of where research in very different disciplines touches to create a new emerging area of research. The book illustrates some of the technical developments that could arise from our growing understanding of how living cognitive systems behave, and the ability to use that knowledge in the design of artificial systems. This unique book is of considerable interest to researchers and students in information science, neuroscience, psychology, engineering and adjacent fields. Represents a remarkable collection of relevant experts from both the life sciences and computer science Includes state-of-the-art reviews of topics in cognitive systems from both a life sciences and a computer science perspective Discusses the impact of this research on our lives in the near future