

Gazzania Ivry Mangun Cognitive Neuroscience 3rd Editioin Online

For courses in Cognitive Psychology, Cognitive Neuroscience, Learning and Memory, Philosophy of Mind, and Philosophy of Psychology. The first book that fully integrates information about the brain and neural processing into the standard curriculum in cognitive psychology. Based on a need for a text that could accurately, productively, and seamlessly integrate information on both the brain and neural processing, Edward E. Smith (Columbia University) and Stephen M. Kosslyn (Harvard University) created Cognitive Psychology: Mind and Brain 1.e.

William Uttal is concerned that in an effort to prove itself a hard science, psychology may have thrown away one of its most important methodological tools—a critical analysis of the fundamental assumptions that underlie day-to-day empirical research. In this book Uttal addresses the question of localization: whether psychological processes can be defined and isolated in a way that permits them to be associated with particular brain regions. New, noninvasive imaging technologies allow us to observe the brain while it is actively engaged in mental activities. Uttal cautions, however, that the excitement of these new research tools can lead to a neuroreductionist wild goose chase. With more and more cognitive neuroscientific data forthcoming, it becomes critical to question their limitations as well as their potential. Uttal reviews the history of localization theory, presents the difficulties of defining cognitive processes, and examines the conceptual and technical difficulties that should make us cautious about falling victim to what may be a "neo-phrenological" fad.

An essential reference for the new discipline of evolutionary cognitive neuroscience that defines the field's approach of applying evolutionary theory to guide brain-behavior investigations.

In this book we are trying to illuminate the persistent and nagging questions of how mind, life, and the essence of being relate to brain mechanisms. We do that not because we have a commit ment to bear witness to the boring issue of reductionism but be cause we want to know more about what it's all about. How, in deed, does the brain work? How does it allow us to love, hate, see, cry, suffer, and ultimately understand Kepler's laws? We try to uncover clues to these staggering questions by con sidering the results of our studies on the bisected brain. Several years back, one of us wrote a book with that title, and the ap proach was to describe how brain and behavior are affected when one takes the brain apart. In the present book, we are ready to put it back together, and go beyond, for we feel that split-brain studies are now at the point of contributing to an understanding of the workings of the integrated mind. We are grateful to Dr. Donald Wilson of the Dartmouth Medi cal School for allowing us to test his patients. We would also like to thank our past and present colleagues, including Richard Naka mura, Gail Risse, Pamela Greenwood, Andy Francis, Andrea El berger, Nick Brecha, Lynn Bengston, and Sally Springer, who have been involved in various facets of the experimental studies on the bisected brain described in this book.

Greener Living Today, and in the Future

Human Language

The Neuroscience of Attention: The Neuroscience of Attention

The Integrated Mind

Wired for Survival

Law and Neuroscience

A revealing insider's account of the power—and limitations—of functional MRI The ability to read minds has long been a fascination of science fiction, but revolutionary new brain-imaging methods are bringing it closer to scientific reality. The New Mind Readers looks at the origins, development, and future of these extraordinary tools, revealing how they are increasingly being used to decode our thoughts and experiences—and how this raises sometimes troubling questions about their application in domains such as marketing, politics, and the law. Written by one of the world's leading pioneers in cognitive neuroscience, this book offers needed perspective on what these emerging methods can and cannot do, and demonstrates how they can provide answers to age-old questions about the nature of consciousness and what it means to be human.

More Than Fluency: The Social, Emotional, and Cognitive Dimensions of Stutteringprovides a thoughtful and contemporary framework for speech-language pathologists and others working with people who stutter. The text focuses on the social, emotional, and cognitive realms of stuttering and offers new insights and applications based on research in the field. It guides the reader through theoretical discussions about the social experiences, emotional complications, and cognitive interpretations that often influence the person who stutters. The text also offers practical strategies for intervention from contributing authors who are prominent theorists, researchers, and practitioners in the field of fluency and stuttering. In line with the current multifactorial view of stuttering, Mor e Than Fluency emphasizes the social, emotional, and cognitive aspects of stuttering, drawing important connections between them. The authors present a variety of therapeutic interventions and techniques along with practical guidelines that have been designed to alleviate distress in those who stutter. Although these interventions differ in approach, each offers their own roadmap to support and empower people who stutter. The idea for this book grew out of the insights gained from listening to both clients and graduate students. Clients want to talk about their life experiences as a person who stutters. Graduate students often described their worry and uncertainty when dealing with the emotional and social issues of their clients who stutter. Similarly, many practicing speech-lang uage pathologists also have concerns about treating people who stutter, especially regarding the social, emotional, and cognitive aspects of the disorder, areas not typically taught in traditional coursework. More Than Fluency was developed for practicing speech-language pathologists and other professionals who evaluate and treat people who stutter. It is also intended to be an academic textbook u sed in graduate courses on fluency and stuttering. This text provides a collection of well-thought-out programs and approaches that help treat the whole person, not just his or her stuttering. The authors believe that this is best practice because successfully treating a person who stutters encompasses treating more than fluency.

This third edition uses an interdisciplinary approach to understanding how the human mind works. Throughout the text, clinical case studies are presented to humanise the scientific content.

Motivation is that which moves us to action. Human motivation is thus a complex issue, as people are moved to action by both their evolved natures and by myriad familial, social and cultural influences. The Oxford Handbook of Human Motivation collects the top theorists and researchers of human motivation into a single volume, capturing the current state-of-the-art in this fast developing field. This book includes theoretical overviews from some of the best-known thinkers in this area, including chapters on Social Learning Theory, Control Theory, Self-determination theory, Terror Management theory, and the Promotion and Prevention perspective. Topical chapters appear on phenomena such as ego-depletion, flow, curiosity, implicit motives, and personal interests. A section specifically highlights goal research, including chapters on goal regulation, achievement goals, the dynamics of choice, unconscious goals and process versus outcome focus. Still other chapters focus on evolutionary and biological underpinnings of motivation, including chapters on cardiovascular dynamics, mood, and neuropsychology. Finally, chapters bring motivation down to earth in reviewing its impact within relationships, and in applied areas such as psychotherapy, work, education, sport, and physical activity. By providing reviews of the most advanced work by the very best scholars in this field, The Oxford Handbook of Human Motivation represents an invaluable resource for both researchers and practitioners, as well as any student of human nature.

A Life in Neuroscience

New Essays on Psychopathology and Theories of Consciousness

More Than Fluency

Understanding the Brain: From Cells to Behavior to Cognition

Language, Music, and the Brain

Cognitive Neuroscience: The Biology of the Mind (Fifth International Student Edition)

This volume summarizes the research on the brain mechanisms of attention, especially those from human imaging studies. Michael I. Posner places this research in the context of human development, educational applications, and brain pathology.

The fourth edition of the work that defines the field of cognitive neuroscience, offering completely new material.

The sixth edition of the foundational reference on cognitive neuroscience, with entirely new material that covers the latest research, experimental approaches, and measurement methodologies. Each edition of this classic reference has proved to be a benchmark in the developing field of cognitive neuroscience. The sixth edition of The Cognitive Neurosciences continues to chart new directions in the study of the biological underpinnings of complex cognition—the relationship between the structural and physiological mechanisms of the nervous system and the psychological and physiological reality of the mind. It offers entirely new material, reflecting recent advances in the field, covering the latest research, experimental approaches, and measurement methodologies. This sixth edition treats such foundational topics as memory, attention, and language, as well as other areas, including computational models of cognition, reward and decision making, social neuroscience, scientific ethics, and methods advances. Over the last twenty-five years, the cognitive neurosciences have seen the development of sophisticated tools and methods, including computational approaches that generate enormous data sets. This volume deploys these exciting new instruments but also emphasizes the value of theory, behavior, observation, and other time-tested scientific habits. Section editors Sarah-Jayne Blakemore and Ulman Lindenberger, Kalanit Grill-Spector and Maria Chait, Tomás Ryan and Charan Ranganath, Sabine Kastner and Steven Luck, Stanislas Dehaene and Josh McDermott, Rich Ivry and John Krakauer, Daphna Shohamy and Wolfram Schultz, Danielle Bassett and Nikolaus Kriegeskorte, Marina Bedny and Alfonso Caramazza, Liina Pylkkänen and Karen Emmorey, Mauricio Delgado and Elizabeth Phelps, Anjan Chatterjee and Adina Roskies

This book will provide the reader with a solid overview of the mechanisms and models in the neuroscience of attentional control and selection from leading authorities working in humans and animals, and incorporating a array of neuroscience methods from single neuron recordings to functional brain imaging.

From Genes and Brains to Behavior

The Cognitive Neurosciences

Introducing Linguistic Research

Emotion and Attention Recognition Based on Biological Signals and Images

Fourth International Student Edition

The Social Brain

The implications for law of the new neuroscience techniques and findings are now among the hottest topics in legal, academic, and media venues. Law and Neuroscience—a collaboration of professors in law, neuroscience, and biology—is the first and still only coursebook to chart this new territory, providing the world’s most comprehensive collection of neurolaw materials. This text will be of interest to many professors teaching Criminal Law and Torts courses, who would like to incorporate the most current thinking on how biology intersects with the law. New to the Second Edition: Extensively revised chapters, updated with new findings and materials. New chapter on Aging Brains Hundreds of new references and citations to recent developments. Over 600 new references and citations to recent developments, with 260 new readings, including 27 new case selections Highly current material; 45% of cases and publications in the Second Edition were published since the first edition in 2014 Professors and students will benefit from: Technical subjects explained in an accessible manner Extensive glossary of key terms Photos and illustrations enliven the text Professors of any background can teach this course

Updated fully, this accessible and comprehensive text highlights the most important theoretical, conceptual and methodological issues in cognitive neuroscience. Written by two experienced teachers, the consistent narrative ensures that students link concepts across chapters, and the careful selection of topics enables them to grasp the big picture without getting distracted by details. Clinical applications such as developmental disorders, brain injuries and dementias are highlighted. In addition, analogies and examples within the text, opening case studies, and ‘In Focus’ boxes engage students and demonstrate the relevance of the material to real-world concerns. Students are encouraged to develop the critical thinking skills that will enable them to evaluate future developments in this fast-moving field. A new chapter on Neuroscience and Society considers how cognitive neuroscience issues relate to the law, education, and ethics, highlighting the clinical and real-world relevance. An expanded online package includes a test bank.

Essays defend, discuss, and critique specific theories of consciousness with respect to various psychopathologies. In Disturbed Consciousness, philosophers and other scholars examine various psychopathologies in light of specific philosophical theories of consciousness. The contributing authors—some of them discussing or defending their own theoretical work—consider not only how a theory of consciousness can account for a specific psychopathological condition but also how the characteristics of a psychopathology might challenge such a theory. Thus one essay defends the higher-order thought (HOT) theory of consciousness against the charge that it cannot account for somatopraphrenia (a delusion in which one denies ownership of a limb). Another essay argues that various attempts to explain away such anomalies within subjective theories of consciousness fail. Other essays consider such topics as the application of a model of unified consciousness to cases of brain bisection and dissociative identity disorder; prefrontal and parietal underconnectivity in autism and other psychopathologies; self-deception and the self-model theory of subjectivity; schizophrenia and the vehicle theory of consciousness; and a shift in emphasis away from an internal (or brainbound) approach to psychopathology to an interactive one. Each essay offers a distinctive perspective from the intersection of philosophy, consciousness research, and psychiatry. Contributors Alexandre Billon, Andrew Brook, Paula Droege, Rocco J. Gennaro, Philip Gerrans, William Hirstein, Jakob Hohwy, Uriah Kriegel, Timothy Lane, Thomas Metzinger, Erik Myin, Inez Myin-Germes, Myrto Mylopoulos, Gerard O’Brien, Jon Opie, J. Kevin O’Regan, Iulia Plushch, Robert Van Gulick

A range of empirical and theoretical perspectives on the relationship between biology and social cognition from infancy through childhood. Recent research on the developmental origins of the social mind supports the view that social cognition is present early in infancy and childhood in surprisingly sophisticated forms. Developmental psychologists have found ingenious ways to test the social abilities of infants and young children, and neuroscientists have begun to study the neurobiological mechanisms that implement and guide early social cognition. Their work suggests that, far from being unfinished adults, babies are exquisitely designed by evolution to capture relevant social information, learn, and explore their social environments. This volume offers a range of empirical and theoretical perspectives on the relationship between biology and social cognition from infancy through childhood. The contributors consider scientific advances in early social perception and cognition, including findings on the development of face processing and social perceptual biases; explore recent research on early infant competencies for language and theory of mind, including a developmental account of how young children become moral agents and the role of electrophysiology in identifying psychological processes that underpin social cognition; discuss the origins and development of prosocial behavior, reviewing evidence for a set of innate predispositions to be social, cooperative, and altruistic; examine how young children make social categories; and analyze atypical social cognition, including autism spectrum disorder and psychopathy. Contributors Lior Abramson, Renée Baillargeon, Pascal Belin, Frances Buttelmann, Sofia Cardenas, Michael J. Crowley, Fabrice Damon, Jean Decety, Michelle de Haan, Ghislaine Dehaene-Lambert, Melody Buyukozer Dawkins, Xiao Pan Ding, Kristen A. Dunfield, Rachel D. Fine, Ana Fló, Jennifer R. Frey, Susan A. Gelman, Diane Goldenberg, Marie-Hélène Grosbras, Tobias Grossmann, Caitlin M. Hudac, Dora Kampis, Tara A. Karasewich, Ariel Knafo-Noam, Tehila Kogut, Ágnes Melinda Kovács, Valerie A. Kuhlmeier, Kang Lee, Narcis Marshall, Eamon McCrory, David Méary, Christos Panagiotopoulos, Olivier Pascalis, Markus Paulus, Kevin A. Pelphey, Marcela Peña, Valerie F. Reyna, Marjorie Rhodes, Ruth Roberts, Hagit Sabato, Darby Saxbe, Virginia Slaughter, Jessica A. Sommerville, Maayan Stavans, Nikolaus Steinbeis, Francisca Ting, Florina Uzefovsky, Essi Viding

Attentional Control and Selection

Perception and Neural Function

Philosophy of Cognitive Neuroscience

Cognitive Neuroscience

The Cognitive Neurosciences, sixth edition

Michael S. Gazzaniga, one of the most important neuroscientists of the twentieth century, gives us an exciting behind-the-scenes look at his seminal work on that unlikely couple, the right and left brain. Foreword by Steven Pinker. In the mid-twentieth century, Michael S. Gazzaniga, “the father of cognitive neuroscience,” was part of a team of pioneering neuroscientists who developed the now foundational split-brain brain theory: the notion that the right and left hemispheres of the brain can act independently from one another and have different strengths. In Tales from Both Sides of the Brain, Gazzaniga tells the impassioned story of his life in science and his decades-long journey to understand how the separate spheres of our brains communicate and miscommunicate with their separate agendas. By turns humorous and moving, Tales from Both Sides of the Brain interweaves Gazzaniga's scientific achievements with his reflections on the challenges and thrills of working as a scientist. In his engaging and accessible style, he paints a vivid portrait not only of his discovery of split-brain theory, but also of his comrades in arms—the many patients, friends, and family who have accompanied him on this wild ride of intellectual discovery.

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.

Over the past decade, conducting empirical research in linguistics has become increasingly popular. The first of its kind, this book provides an engaging and practical introduction to this exciting versatile field, providing a comprehensive overview of research aspects in general, and covering a broad range of subdiscipline-specific methodological approaches. Subfields covered include language documentation and descriptive linguistics, language typology, corpus linguistics, sociolinguistics and anthropological linguistics, cognitive linguistics and psycholinguistics, and neurolinguistics. The book reflects on the strengths and weaknesses of each single approach and on how they interact with one-another across the study of language in its many diverse facets. It also includes exercises, example student projects and recommendations for further reading, along with additional online teaching materials. Providing hands-on experience, and written in an engaging and accessible style, this unique and comprehensive guide will give students the inspiration they need to develop their own research projects in empirical linguistics.

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.

The Conceptual Foundations of Law and Neuroscience

The Cognitive Neuroscience of Memory

Principles of Neural Science, Sixth Edition

Advances in Culture and Psychology

Educational Neuroscience

A Reader

Fundamentals of Cognitive Neuroscience: A Beginner’s Guide, Second Edition, is a comprehensive, yet accessible, beginner’s guide on cognitive neuroscience. This text takes a distinctive, commonsense approach to help newcomers easily learn the basics of how the brain functions when we learn, act, feel, speak and socialize. This updated edition includes contents and features that are both academically rigorous and engaging, including a step-by-step introduction to the visible brain, colorful brain illustrations, and new chapters on emerging topics in cognition research, including emotion, sleep and disorders of consciousness,

and discussions of novel findings that highlight cognitive neuroscience’s practical applications. Written by two leading experts in the field and thoroughly updated, this book remains an indispensable introduction to the study of cognition. Presents an easy-to-read introduction to mind-brain science based on a simple functional diagram linked to specific brain functions Provides new, up-to-date, colorful brain images directly from research labs Contains "In the News" boxes that describe the newest research and augment foundational content Includes both a student and instructor website with basic terms and definitions, chapter guides, study questions, drawing exercises, downloadable lecture slides, test bank, flashcards, sample syllabi and links to multimedia resources

The Logic Manual is the ideal introduction to logic for beginning philosophy students. It offers a concise but complete introductory course, giving a firm grounding in the logic that is needed to study contemporary philosophy. Exercises, examples, and sample examination papers are provided on an accompanying website. The first textbook for the course, and still the market leader, Cognitive Neuroscience has been thoroughly refreshed, rethought, and reorganized to enhance students ' and instructors ' experience. A stunning, all new art program conveys data and concepts clearly, and new chapter-opening Anatomical Orientation figures help students get their bearings. The table of contents and the chapters themselves have been reorganized to improve the logical flow of the narrative, and the world renowned author team has kept the book fully up to date on the latest research in this fast moving field.

A presentation of music and language within an integrative, embodied perspective of brain mechanisms for action, emotion, and social coordination. This book explores the relationships between language, music, and the brain by pursuing four key themes and the crosstalk among them: song and dance as a bridge between music and language; multiple levels of structure from brain to behavior to culture; the semantics of internal and external worlds and the role of emotion; and the evolution and development of language. The book offers specially commissioned expositions of current research accessible both to experts across disciplines and to non-experts. These chapters provide the background for reports by groups of specialists that chart current controversies and future directions of research on each theme. The book looks beyond mere auditory experience, probing the embodiment that links speech to gesture and music to dance. The study of the brains of monkeys and songbirds illuminates hypotheses on the evolution of brain mechanisms that support music and language, while the study of infants calibrates the developmental timetable of their capacities. The result is a unique book that will interest any reader seeking to learn more about language or music and will appeal especially to readers intrigued by the relationships of language and music with each other and with the brain. Contributors Francisco Aboitiz, Michael A. Arbib, Annabel J. Cohen, Ian Cross, Peter Ford Dominey, W. Tecumseh Fitch, Leonardo Fogassi, Jonathan Fritz, Thomas Fritz, Peter Hagoort, John Halle, Henkjan Honing, Atsushi Iriki, Petr Janata, Erich Jarvis, Stefan Koelsch, Gina Kuperberg, D. Robert Ladd, Fred Lerdahl, Stephen C. Levinson, Jerome Lewis, Katja Liebal, Jónatas Manzolli, Bjorn Merker, Lawrence M. Parsons, Aniruddh D. Patel, Isabelle Peretz, David Poeppel, Josef P. Rauschecker, Nikki Rickard, Klaus Scherer, Gottfried Schlaug, Uwe Seifert, Mark Steedman, Dietrich Stout, Francesca Stregapede, Sharon Thompson-Schill, Laurel Trainor, Sandra E. Trehub, Paul Verschure

The Logic Manual

A Developmental Perspective

The Biology of the Mind

Social Brain

Disturbed Consciousness

A Mysterious Relationship

The field of culture and psychology is one of the fastest growing areas in the social sciences. Advances in Culture and Psychology: Volume 4 belongs to an annual series that is the first to offer state-of-the-art reviews of scholarly research programs in the growing field of culture and psychology.

Educational Neuroscience presents a series of readings from educators, psychologists, and neuroscientists that explore the latest findings in developmental cognitive neurosciences and their potential applications to education. Represents a new research area with direct relevance to current educational practices and policy making Features individual chapters written collaboratively by educationalist, psychologists, and neuroscientists to ensure maximum clarity and relevance to a broad range of readers Edited by a trio of leading academics with extensive experience in the field

Cognitive Neuroscience: A Reader provides the first definitive collection of readings in this burgeoning area of study.

Recounts the early days of split-brain research and updates it with new information on the separate modules within the brain that transform random stimuli into a distinct sense of consciousness

The Oxford Handbook of Human Motivation

The Rational (and Irrational) Choices We Make, from the Gas Pump to Terrorism

The New Phrenology

What Neuroimaging Can and Cannot Reveal about Our Thoughts

The New Mind Readers

Minds, Brains, and Law

How do cognitive neuroscientists explain phenomena like memory or language processing? This book examines the different kinds of experiments and manipulative research strategies involved in understanding and eventually explaining such phenomena. Against this background, it evaluates contemporary accounts of scientific explanation, specifically the mechanistic and interventionist accounts, and finds them to be crucially incomplete. Besides, mechanisms and interventions cannot actually be combined in the way usually done in the literature. This book offers solutions to both these problems based on insights from experimental practice. It defends a new reading of the interventionist account, highlights the importance of non-interventionist studies for scientific inquiry, and supplies a taxonomy of experiments that makes it easy to see how the gaps in contemporary accounts of scientific explanation can be filled. The book concludes that a truly empirically adequate philosophy of science must take into account a much wider range of experimental research than has been done to date. With the taxonomy provided, this book serves a stepping-stone leading into a new era of philosophy of science—for cognitive neuroscience and beyond.

Recent advances in techniques available to memory researchers have led to a rapid expansion in the field of cognitive neuroscience of memory. This book provides accessible coverage of four key areas of recent advance, including research on functional imaging, electrophysiological and lesion studies, and developments from the computational modelling approach. The first section reviews functional imaging studies in humans, with particular emphasis on how imaging methods have clarified the cortical areas involved in memory formation and retrieval. The second section describes electrophysiological and lesion research in monkeys, where lesion and disconnection studies are rapidly adding to our knowledge of both information processing and modulatory aspects of memory formation. In the third section, electrophysiological and lesion studies in rats are reviewed allowing for a detailed study of the role of novelty and exploration in memory formation. The final section reviews current research in computational modelling which has allowed the development of new theoretical and experimental approaches to the study of memory encoding and retrieval. This volume draws together the current developments in each field, allowing the synthesis of ideas and providing converging evidence from a range of sources. It will be a useful resource for both advanced undergraduate and postgraduate students of psychology, as well as researchers in the field and anyone with an interest in cognitive neuroscience.

Papers delivered at a tribute on April 12, 2008 in San Francisco, California.

Publisher’s Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The gold standard of neuroscience texts—updated with hundreds of brand-new images and fully revised content in every chapter With 300 new illustrations, diagrams, and radiology studies including PET scans, Principles of Neural Science, 6th Edition is the definitive guide for neuroscientists, neurologists, psychiatrists, students, and residents. Highly detailed chapters on stroke, Parkinson’s, and MS build your expertise on these critical topics. Radiological studies the authors have chosen explain what’s most important to know and understand for each type of stroke, progressive MS, or non-progressive MS. Features 2,200 images, including 300 new color illustrations, diagrams, and radiology studies (including PET scans) NEW: This edition now features only two contributors per chapter and are mostly U.S.-based NEW: Number of chapters streamlined down from 67 to 60 NEW: Chapter on Navigation and Spatial Memory NEW: New images in every chapter!

Cognitive Psychology: Pearson New International Edition

Evolutionary Cognitive Neuroscience

A Beginner’s Guide

Mind and Brain

Causal Explanations, Mechanisms and Experimental Manipulations

Encoding and Retrieval

This book addresses the philosophical questions that arise when neuroscientific research and technology are applied in the legal system. The empirical, practical, ethical, and conceptual issues that Pardo and Patterson seek to redress will deeply influence how we negotiate and implement the fruits of neuroscience in law and policy in the future.

A unique overview of the human language faculty at all levels of organization. Language is not only one of the most complex cognitive functions that we command, it is also the aspect of the mind that makes us uniquely human. Research suggests that the human brain exhibits a language readiness not found in the brains of other species. This volume brings together contributions from a range of fields to examine humans’ language capacity from multiple perspectives, analyzing it at genetic, neurobiological, psychological, and linguistic levels. In recent decades, advances in computational modeling, neuroimaging, and genetic sequencing have made possible new approaches to the study of language, and the contributors draw on these developments. The book examines cognitive architectures, investigating the functional organization of the major language skills; learning and development trajectories, summarizing the current understanding of the steps and neurocognitive mechanisms in language processing; evolutionary and other preconditions for communication by means of natural language; computational tools for modeling language; cognitive neuroscientific methods that allow observations of the human brain in action, including fMRI, EEG/MEG, and others; the neural infrastructure of language capacity; the genome’s role in building and maintaining the language-ready brain; and insights from studying such language-relevant behaviors in nonhuman animals as birdsong and primate vocalization. Section editors Christian F. Beckmann, Carel ten Cate, Simon E. Fisher, Peter Hagoort, Evan Kidd, Stephen C. Levinson, James M. McQueen, Antje S. Meyer, David Poeppel, Caroline F. Rowland, Constance Scharff, Ivan Toni, Willem Zuidema

Emotion, stress, and attention recognition are the most important aspects in neuropsychology, cognitive science, neuroscience, and engineering. Biological signals and images processing such as galvanic skin response (GSR), electrocardiography (ECG), heart rate variability (HRV), electromyography (EMG), electroencephalography (EEG), event-related potentials (ERP), eye tracking, functional near-infrared spectroscopy (fNIRS), and functional magnetic resonance imaging (fMRI) have a great help in understanding the mentioned cognitive processes. Emotion, stress, and attention recognition systems based on different soft computing approaches have many engineering and medical applications. The book Emotion and Attention Recognition Based on Biological Signals and Images attempts to introduce the different soft computing approaches and technologies for recognition of emotion, stress, and attention, from a historical development, focusing particularly on the recent development of the field and its specialization within neuropsychology, cognitive science, neuroscience, and engineering. The basic idea is to present a common framework for the neuroscientists from diverse backgrounds in the cognitive neuroscience to illustrate their theoretical and applied research findings in emotion, stress, and attention.

Do you want to live well, be green and make a difference? There’s never been a better time to reduce your personal impact on the environment and prepare for change as our society moves towards sustainability. With topics covering everything from green cleaning and ecofashion to growing food and saving energy and water, Greeniology 2020 is a practical, fun guide to changing your lifestyle for a healthier home and healthier planet. Award-winning environmentalist and television presenter Tanya Ha provides green living advice, tips and ideas for the beginner and committed tree-hugger alike. They will compel you to change your life, and to be part of the solution to our planet’s problems. Find out how to reduce the impact of your lifestyle and help the planet flourish, make your home more comfortable all year round, save money on energy and water bills, go green at work, and make your home safer and healthier for your family.

A Tribute to Michael S. Gazzaniga

Tales from Both Sides of the Brain

The Student’s Guide to Cognitive Neuroscience

Attention in a Social World

The Limits of Localizing Cognitive Processes in the Brain

The Cognitive Neuroscience of Mind

Cognitive Neuroscience: The Biology of the MindFourth International Student EditionW.W.Norton

The most authoritative cognitive neuroscience text is also the most accessible.

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.

Lessons from the Cutting-Edge of Neuroscience: “Remapping” to Thrive in the New Global Economy! “Do you ever wonder how you think? If you do, this book will fascinate and inform you. If you don’t, you will after reading this book. Either way, you’ll enjoy learning how we don’t usually do it as we think we do, how we may do it better for that very reason, and how we may do it still better once we understand.” –Thomas C. Schelling, 2005 Nobel Prize Laureate in Economics, Distinguished University Professor, Emeritus, University of Maryland Drawing on cutting-edge research in the neurosciences, Wired for Survival illuminates the surprising security implications of rapid change in the emerging economies and develops practical, technically sound ways to face the challenges of global change. Researcher and consultant Margaret M. Polski begins by uncovering the remarkable neurobiological underpinnings of policy. Polski reveals why the most effective political and economic policies are codified not in law, treaty, or culture, but in the networks embedded in our bodies and brains...and how protecting our prosperity requires us to adapt those networks to radically new realities. Next, Polski applies these fresh insights to three critical security issues:

how best to defend our national interests: to take offensive action to protect our interests; and to strengthen our financial system. Finally, she provides “rules for the road” that can be applied to a world of problems: how best to compete in global markets; to build stronger, more secure communities; to manage energy and other key resources; to invest in and secure critical infrastructure; to address the structural impacts of trade; and to manage tomorrow’s catastrophes, both natural and man-made. As a political economist, executive, government advisor, and consultant, Polski has spent more than two decades devising strategies for surviving change in the global political economy. Now, drawing on the breakthrough research in social neuroscience, she offers insights that will help you thrive, not just survive! “First, kill all the pundits and policy wonks...” Why you’ll make better decisions by thinking for yourself—and how to do

it Thinking in the wild Uncovering the intuitive interactions between our minds, bodies, and 21st century environment Overcoming our biases, our histories, and our vulnerability to groupthink Mastering the deep motivations that traditional economics doesn’t understand

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