

Principles Of Cognitive Neuroscience 2nd Edition

Attitudes are evaluations of people, places, things, and ideas. They help us to navigate through a complex world. They provide guidance for decisions about which products to buy, how to travel to work, or where to go on vacation. They color our perceptions of others. Carefully crafted interventions can change attitudes and behavior. Yet, attitudes, beliefs, and behavior are often formed and changed in casual social exchanges. The mere perception that other

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people favor something, say, rich people, may be sufficient to make another person favor it. People's own actions also influence their attitudes, such that they adjust to be more supportive of the actions. People's belief systems even change to align with and support their preferences, which at its extreme is a form of denial for which people lack awareness. These two volumes provide authoritative, critical surveys of theory and research about attitudes, beliefs, persuasion, and behavior from key authors in these areas. The first volume covers theoretical notions about attitudes, the beliefs and behaviors to which

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they are linked, and the degree to which they are held outside of awareness. It also discusses motivational and cultural determinants of attitudes, influences of attitudes on behavior, and communication and persuasion. The second volume covers applications to measurement, behavior prediction, and interventions in the areas of cancer, HIV, substance use, diet, and exercise, as well as in politics, intergroup relations, aggression, migrations, advertising, accounting, education, and the environment.

An anthology of core readings on cognitive psychology. This fully updated new edition offers a

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comprehensive, accessible, yet rigorous introduction to the study of Early Childhood that will will add value to any Early Childhood Studies course at both foundation and degree level. Addressing both care and education in the Early Years, the book considers a range of multi-disciplinary aspects of Early Childhood; including health, social, educational, psychological and sociological perspectives. Early Childhood Studies engages the reader by providing real-world examples that underpin theoretical perspectives and bring examples to life, while encouraging practitioners to engage in reflective

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practice by considering their own similar experiences. Key features include: Engaging activities and case studies that bring theory to life Cutting-edge research Practical tasks and advice with points for further reading End of chapter summaries, Reflective Tasks and Study Skills boxes in each chapter Full colour illustrations throughout This core introductory textbook is an indispensable resource for Early Years' students and professionals, whatever their level of expertise or experience.

Modern neuroscience research is inherently multidisciplinary, with a wide variety of cutting edge

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new techniques to explore multiple levels of investigation. This Third Edition of Guide to Research Techniques in Neuroscience provides a comprehensive overview of classical and cutting edge methods including their utility, limitations, and how data are presented in the literature. This book can be used as an introduction to neuroscience techniques for anyone new to the field or as a reference for any neuroscientist while reading papers or attending talks.

- **Nearly 200 updated full-color illustrations to clearly convey the theory and practice of neuroscience methods**
- **Expands on techniques from previous**

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editions and covers many new techniques including in vivo calcium imaging, fiber photometry, RNA-Seq, brain spheroids, CRISPR-Cas9 genome editing, and more • Clear, straightforward explanations of each technique for anyone new to the field • A broad scope of methods, from noninvasive brain imaging in human subjects, to electrophysiology in animal models, to recombinant DNA technology in test tubes, to transfection of neurons in cell culture • Detailed recommendations on where to find protocols and other resources for specific techniques • “Walk-through boxes that guide readers through experiments step-by-

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step

Cognitive Neuroscience and Neuropathology

Principles of Cognitive Neuroscience

Human Motor Control

Patient-based Approaches to Cognitive Neuroscience

An Introduction to Scientific Computing in MATLAB

The Learning Brain

Fundamental Neuroscience, 3rd Edition

introduces graduate and upper-level

undergraduate students to the full range of

contemporary neuroscience. Addressing

instructor and student feedback on the

previous edition, all of the chapters are

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rewritten to make this book more concise and student-friendly than ever before. Each chapter is once again heavily illustrated and provides clinical boxes describing experiments, disorders, and methodological approaches and concepts. Capturing the promise and excitement of this fast-moving field, Fundamental Neuroscience, 3rd Edition is the text that students will be able to reference throughout their neuroscience careers! New to this edition: 30% new material including new chapters on Dendritic Development and Spine Morphogenesis, Chemical Senses, Cerebellum, Eye Movements, Circadian

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***Timing, Sleep and Dreaming, and Consciousness
Additional text boxes describing key
experiments, disorders, methods, and concepts
Multiple model system coverage beyond rats,
mice, and monkeys Extensively expanded index
for easier referencing***

***An essential guide to designing, conducting,
and analyzing event-related potential (ERP)
experiments, completely updated for this
edition. The event-related potential (ERP)
technique, in which neural responses to
specific events are extracted from the EEG,
provides a powerful noninvasive tool for
exploring the human brain. This volume***

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describes practical methods for ERP research along with the underlying theoretical rationale. It offers researchers and students an essential guide to designing, conducting, and analyzing ERP experiments. This second edition has been completely updated, with additional material, new chapters, and more accessible explanations. Freely available supplementary material, including several online-only chapters, offer expanded or advanced treatment of selected topics. The first half of the book presents essential background information, describing the origins of ERPs, the nature of ERP

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components, and the design of ERP experiments. The second half of the book offers a detailed treatment of the main steps involved in conducting ERP experiments, covering such topics as recording the EEG, filtering the EEG and ERP waveforms, and quantifying amplitudes and latencies. Throughout, the emphasis is on rigorous experimental design and relatively simple analyses. New material in the second edition includes entire chapters devoted to components, artifacts, measuring amplitudes and latencies, and statistical analysis; updated coverage of recording technologies;

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concrete examples of experimental design; and many more figures. Online chapters cover such topics as overlap, localization, writing and reviewing ERP papers, and setting up and running an ERP lab.

... features fully annotated surface views of the human brain, as well as interactive tools for dissection the central nervous system and viewing fully annotated cross-sections of preserved specimens and living subjects imaged by magnetic resonance... it incorporates a comprehensive, visually-rich, searchable database of more than 500 neuranatomical terms that are concisely

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defined and visualized in photographs, magnetic resonance images, and illustrations. Human Motor Control is a elementary introduction to the field of motor control, stressing psychological, physiological, and computational approaches. Human Motor Control cuts across all disciplines which are defined with respect to movement: physical education, dance, physical therapy, robotics, and so on. The book is organized around major activity areas. A comprehensive presentation of the major problems and topics in human motor control Incorporates applications of work that lie outside traditional sports or

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physical education teaching

Brain, Mind, Experience, and School: Expanded Edition

Principles of Neurobiology

Early Childhood Studies

The Science of Early Childhood Development

Handbook of Developmental Cognitive

Neuroscience, second edition

Cognitive Science

First released in the Spring of 1999, How People Learn has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior.

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This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture

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on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and

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everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education. 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

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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,

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chapter guides, study questions, drawing exercises, downloadable lecture slides, test bank, flashcards, sample syllabi and links to multimedia resources

Neurobiology of Language explores the study of language, a field that has seen tremendous progress in the last two decades. Key to this progress is the accelerating trend toward integration of neurobiological approaches with the more established understanding of language within cognitive psychology, computer science, and linguistics. This volume serves as the definitive reference on the neurobiology of language, bringing these various advances together into a single volume of 100 concise entries. The organization includes sections on

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the field's major subfields, with each section covering both empirical data and theoretical perspectives. "Foundational" neurobiological coverage is also provided, including neuroanatomy, neurophysiology, genetics, linguistic, and psycholinguistic data, and models. Foundational reference for the current state of the field of the neurobiology of language Enables brain and language researchers and students to remain up-to-date in this fast-moving field that crosses many disciplinary and subdisciplinary boundaries Provides an accessible entry point for other scientists interested in the area, but not actively working in it - e.g., speech therapists, neurologists, and cognitive psychologists Chapters authored by

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world leaders in the field – the broadest, most expert coverage available

Neural Circuit and Cognitive Development, Second Edition, the latest release in the Comprehensive Developmental Neuroscience series, provides a much-needed update to underscore the latest research in this rapidly evolving field, with new section editors discussing the technological advances that are enabling the pursuit of new research on brain development. This volume is devoted mainly to anatomical and functional development of neural circuits and neural systems and cognitive development. Understanding the critical role these changes play in neurodevelopment provides the

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ability to explore and elucidate the underlying causes of neurodevelopmental disorders and their effect on cognition. This series is designed to fill the knowledge gap, offering the most thorough coverage of this field on the market today and addressing all aspects of how the nervous system and its components develop. Features leading experts in various subfields as section editors and article authors Presents articles that have been peer reviewed to ensure accuracy, thoroughness and scholarship Includes coverage of mechanisms that control the assembly of neural circuits in specific regions of the nervous system and multiple aspects of cognitive development
Neuropsychology

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Guide to Research Techniques in Neuroscience

Neuroscience For Dummies

The Student's Guide to Cognitive Neuroscience

An Interactive Atlas and Visual Glossary of Human
Neuroanatomy

Principles of Neural Science

Introduction to computer modeling of
the brain, to understand how people
think. Networks of interacting neurons
produce complex emergent behavior
including perception, attention, motor
control, learning, memory, language,
and executive functions (motivation,

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decision making, planning, etc).

Organized to provide a background to the basic cellular mechanisms of memory and by the major memory systems in the brain, this text offers an up-to-date account of our understanding of how the brain accomplishes the phenomenology of memory.

This thoroughly revised new edition of a classic book provides a clinically inspired but scientifically guided approach to the biological foundations

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of human mental function in health and disease. It includes authoritative coverage of all the major areas related to behavioral neurology, neuropsychology, and neuropsychiatry. Each chapter, written by a world-renowned expert in the relevant area, provides an introductory background as well as an up-to-date review of the most recent developments. Clinical relevance is emphasized but is placed in the context of cognitive

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neuroscience, basic neuroscience, and functional imaging. Major cognitive domains such as frontal lobe function, attention and neglect, memory, language, prosody, complex visual processing, and object identification are reviewed in detail. A comprehensive chapter on behavioral neuroanatomy provides a background for brain-behavior interactions in the cerebral cortex, limbic system, basal ganglia, thalamus, and cerebellum. Chapters on

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temperolimbic epilepsy, major psychiatric syndromes, and dementia provide in-depth analyses of these neurobehavioral entities and their neurobiological coordinates. Changes for this second edition include the reflection throughout the book of the new and flourishing alliance of behavioral neurology, neuropsychology, and neuropsychiatry with cognitive science; major revision of all chapters; new authorship of those on language and

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memory; and the inclusion of entirely new chapters on psychiatric syndromes and the dementias. Both as a textbook and a reference work, the second edition of Principles of Behavioral and Cognitive Neurology represents an invaluable resource for behavioral neurologists, neuropsychologists, neuropsychiatrists, cognitive and basic neuroscientists, geriatricians, psychiatrists, and their students and trainees.

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How we raise young children is one of today's most highly personalized and sharply politicized issues, in part because each of us can claim some level of "expertise." The debate has intensified as discoveries about our development-in the womb and in the first months and years-have reached the popular media. How can we use our burgeoning knowledge to assure the well-being of all young children, for their own sake as well as for the sake of our

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nation? Drawing from new findings, this book presents important conclusions about nature-versus-nurture, the impact of being born into a working family, the effect of politics on programs for children, the costs and benefits of intervention, and other issues. The committee issues a series of challenges to decision makers regarding the quality of child care, issues of racial and ethnic diversity, the integration of children's cognitive and emotional

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development, and more. Authoritative yet accessible, *From Neurons to Neighborhoods* presents the evidence about "brain wiring" and how kids learn to speak, think, and regulate their behavior. It examines the effect of the climate-family, child care, community-within which the child grows.

Cognitive Neurorehabilitation

Linking Cognitive and Cerebral Aging

MATLAB for Neuroscientists

Principles and Practice

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Evidence and Application

Fundamentals of Cognitive Neuroscience

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

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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.

Get on the fast track to understanding neuroscience
Investigating how your senses work, how you move, and how you think and feel, Neuroscience For Dummies, 2nd Edition is your straight-forward guide to the most complicated structure known in the universe: the brain. Covering the most recent scientific discoveries and

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complemented with helpful diagrams and engaging anecdotes that help bring the information to life, this updated edition offers a compelling and plain-English look at how the brain and nervous system function. Simply put, the human brain is an endlessly fascinating subject: it holds the secrets to your personality, use of language, memories, and the way your body operates. In just the past few years alone, exciting new technologies and an explosion of knowledge have transformed the field of neuroscience—and this friendly guide is here to serve as your roadmap to the latest findings and research. Packed with new content on genetics and epigenetics and increased coverage of hippocampus and depression, this new edition of Neuroscience For Dummies is an eye-

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opening and fascinating read for readers of all walks of life. Covers how gender affects brain function Illustrates why some people are more sensitive to pain than others Explains what constitutes intelligence and its different levels Offers guidance on improving your learning What is the biological basis of consciousness? How are mental illnesses related to changes in brain function? Find the answers to these and countless other questions in Neuroscience For Dummies, 2nd Edition

The second edition of an essential resource to the evolving field of developmental cognitive neuroscience, completely revised, with expanded emphasis on social neuroscience, clinical disorders, and imaging genomics. The publication of the second edition of this handbook testifies to the rapid

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evolution of developmental cognitive neuroscience as a distinct field. Brain imaging and recording technologies, along with well-defined behavioral tasks—the essential methodological tools of cognitive neuroscience—are now being used to study development. Technological advances have yielded methods that can be safely used to study structure-function relations and their development in children's brains. These new techniques combined with more refined cognitive models account for the progress and heightened activity in developmental cognitive neuroscience research. The Handbook covers basic aspects of neural development, sensory and sensorimotor systems, language, cognition, emotion, and the implications of lifelong neural plasticity for brain and behavioral

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development. The second edition reflects the dramatic expansion of the field in the seven years since the publication of the first edition. This new Handbook has grown from forty-one chapters to fifty-four, all original to this edition. It places greater emphasis on affective and social neuroscience—an offshoot of cognitive neuroscience that is now influencing the developmental literature. The second edition also places a greater emphasis on clinical disorders, primarily because such research is inherently translational in nature. Finally, the book's new discussions of recent breakthroughs in imaging genomics include one entire chapter devoted to the subject. The intersection of brain, behavior, and genetics represents an exciting new area of inquiry, and the second edition of this essential

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reference work will be a valuable resource for researchers interested in the development of brain-behavior relations in the context of both typical and atypical development. Cognitive Neuroscience: A Reader provides the first definitive collection of readings in this burgeoning area of study.

Neurobiology of Language

An Introduction to the Study of Mind

From Theory to Practice

Cognitive Neuroscience of Language

From Neurons to Neighborhoods

How People Learn

MATLAB for Neuroscientists serves as the only complete study manual and teaching resource for MATLAB, the

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globally accepted standard for scientific computing, in the neurosciences and psychology. This unique introduction can be used to learn the entire empirical and experimental process (including stimulus generation, experimental control, data collection, data analysis, modeling, and more), and the 2nd Edition continues to ensure that a wide variety of computational problems can be addressed in a single programming environment. This updated edition features additional material on the creation of visual stimuli, advanced psychophysics, analysis of LFP data, choice probabilities, synchrony, and advanced spectral analysis. Users at a variety of levels—advanced undergraduates, beginning graduate students, and researchers looking to modernize their skills—will learn to design and implement

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their own analytical tools, and gain the fluency required to meet the computational needs of neuroscience practitioners. The first complete volume on MATLAB focusing on neuroscience and psychology applications Problem-based approach with many examples from neuroscience and cognitive psychology using real data Illustrated in full color throughout Careful tutorial approach, by authors who are award-winning educators with strong teaching experience

Cognition, Brain, and Consciousness, Second Edition, provides students and readers with an overview of the study of the human brain and its cognitive development. It discusses brain molecules and their primary function, which is to help carry brain signals to and from the different parts

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of the human body. These molecules are also essential for understanding language, learning, perception, thinking, and other cognitive functions of our brain. The book also presents the tools that can be used to view the human brain through brain imaging or recording. New to this edition are Frontiers in Cognitive Neuroscience text boxes, each one focusing on a leading researcher and their topic of expertise. There is a new chapter on Genes and Molecules of Cognition; all other chapters have been thoroughly revised, based on the most recent discoveries. This text is designed for undergraduate and graduate students in Psychology, Neuroscience, and related disciplines in which cognitive neuroscience is taught. New edition of a very successful textbook Completely revised to reflect new

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*advances, and feedback from adopters and students
Includes a new chapter on Genes and Molecules of
Cognition Student Solutions available at <http://www.baars-gage.com/> For Teachers: Rapid adoption and course
preparation: A wide array of instructor support materials are
available online including PowerPoint lecture slides, a test
bank with answers, and eFlashcards on key concepts for
each chapter. A textbook with an easy-to-understand
thematic approach: in a way that is clear for students from
a variety of academic backgrounds, the text introduces
concepts such as working memory, selective attention, and
social cognition. A step-by-step guide for introducing
students to brain anatomy: color graphics have been
carefully selected to illustrate all points and the research*

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explained. Beautifully clear artist's drawings are used to 'build a brain' from top to bottom, simplifying the layout of the brain. For students: An easy-to-read, complete introduction to mind-brain science: all chapters begin from mind-brain functions and build a coherent picture of their brain basis. A single, widely accepted functional framework is used to capture the major phenomena. Learning Aids include a student support site with study guides and exercises, a new Mini-Atlas of the Brain and a full Glossary of technical terms and their definitions. Richly illustrated with hundreds of carefully selected color graphics to enhance understanding.

With over 300 training programs in neuroscience currently in existence, demand is great for a comprehensive textbook

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that both introduces graduate students to the full range of neuroscience, from molecular biology to clinical science, but also assists instructors in offering an in-depth course in neuroscience to advanced undergraduates. The second edition of Fundamental Neuroscience accomplishes all this and more. The thoroughly revised text features over 25% new material including completely new chapters, illustrations, and a CD-ROM containing all the figures from the text. More concise and manageable than the previous edition, this book has been retooled to better serve its audience in the neuroscience and medical communities.

Key Features

- * Logically organized into 7 sections, with uniform editing of the content for a "one-voice" feel throughout all 54 chapters
- * Includes numerous text boxes

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*with concise, detailed descriptions of specific experiments, disorders, methodological approaches, and concepts * Well-illustrated with over 850 full color figures, also included on the accompanying CD-ROM*

The second edition of The Neurology of Consciousness is a comprehensive update of this ground-breaking work on human consciousness, the first book in this area to summarize the neuroanatomical and functional underpinnings of consciousness by emphasizing a lesional approach offered by the study of neurological patients. Since the publication of the first edition in 2009, new methodologies have made consciousness much more accessible scientifically, and, in particular, the study of disorders, disruptions, and disturbances of consciousness

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has added tremendously to our understanding of the biological basis of human consciousness. The publication of a new edition is both critical and timely for continued understanding of the field of consciousness. In this critical and timely update, revised and new contributions by internationally renowned researchers—edited by the leaders in the field of consciousness research—provide a unique and comprehensive focus on human consciousness. The new edition of The Neurobiology of Consciousness will continue to be an indispensable resource for researchers and students working on the cognitive neuroscience of consciousness and related disorders, as well as for neuroscientists, psychologists, psychiatrists, and neurologists contemplating consciousness as one of the

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philosophical, ethical, sociological, political, and religious questions of our time. New chapters on the neuroanatomical basis of consciousness and short-term memory, and expanded coverage of comas and neuroethics, including the ethics of brain death The first comprehensive, authoritative collection to describe disorders of consciousness and how they are used to study and understand the neural correlates of conscious perception in humans. Includes both revised and new chapters from the top international researchers in the field, including Christof Koch, Marcus Raichle, Nicholas Schiff, Joseph Fins, and Michael Gazzaniga

*The Cognitive Neuroscience of Memory
2nd Edition*

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A Beginner's Guide

Sylvius 4

A Reader

Computational Cognitive Neuroscience

Essentials of Cognitive Neuroscience
guides undergraduate and early-stage
graduate students with no previous
neuroscientific background through the
fundamental principles and themes in a
concise, organized, and engaging
manner. Provides students with the
foundation to understand primary

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literature, recognize current controversies in the field, and engage in discussions on cognitive neuroscience and its future Introduces important experimental methods and techniques integrated throughout the text Assists student comprehension through four-color images and thorough pedagogical resources throughout the text Accompanied by a robust website with multiple choice questions, experiment vidoes, fMRI data, web links and video

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narratives from a global group of leading scientists for students. For Instructors there are sample syllabi and exam questions

Now available in paperback, this updated new edition summarizes the latest developments in cognitive neuroscience related to rehabilitation, reviews the principles of successful interventions and synthesizes new findings about the rehabilitation of cognitive changes in a variety of populations. With greatly

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expanded sections on treatment and the role of imaging, it provides a comprehensive reference for those interested in the science, as well as including the most up-to-date information for the practising clinician. It provides clear and practical guidance on why cognitive rehabilitation may or may not work. How to use imaging methods to evaluate the efficacy of interventions. What personal and external factors impact rehabilitation success. How

biological and psychopharmacological changes can be understood and treated. How to treat different disorders of language and memory, and where the field is going in research and clinical application.

Evolutionary Neuroscience is a collection of articles in brain evolution selected from the recent comprehensive reference, Evolution of Nervous Systems (Elsevier, Academic Press, 2007). The selected chapters cover a broad range of

topics from historical theory to the most recent deductions from comparative studies of brains. The articles are organized in sections focused on theories and brain scaling, the evolution of brains from early vertebrates to present-day fishes, amphibians, reptiles and birds, the evolution of mammalian brains, and the evolution of primate brains, including human brains. Each chapter is written by a leader or leaders in the field, and has been reviewed by

other experts. Specific topics include brain character reconstruction, principles of brain scaling, basic features of vertebrate brains, the evolution of the major sensory systems, and other parts of brains, what we can learn from fossils, the origin of neocortex, and the evolution of specializations of human brains. The collection of articles will be interesting to anyone who is curious about how brains evolved from the simpler nervous systems of the first

vertebrates into the many different complex forms now found in present-day vertebrates. This book would be of use to students at the graduate or undergraduate levels, as well as professional neuroscientists, cognitive scientists, and psychologists. Together, the chapters provide a comprehensive list of further reading and references for those who want to inquire further. • The most comprehensive, authoritative and up-to-date single volume collection on

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**brain evolution • Full color throughout,
with many illustrations • Written by
leading scholars and experts**

**Until very recently, our knowledge about
the neural basis of cognitive aging was
based on two disciplines that had very
little contact with each other. Whereas
the neuroscience of aging investigated
the effects of aging on the brain
independently of age-related changes in
cognition, the cognitive psychology of
aging investigated the effects of aging**

on cognition independently of age-related changes in the brain. The lack of communication between these two disciplines is currently being addressed by an increasing number of studies that focus on the relationships between cognitive aging and cerebral aging. This rapidly growing body of research has come to constitute a new discipline, which may be called cognitive neuroscience of aging. The goal of Cognitive Neuroscience of Aging is to

introduce the reader to this new discipline at a level that is useful to both professionals and students in the domains of cognitive neuroscience, cognitive psychology, neuroscience, neuropsychology, neurology, and other, related areas. This book is divided into four main sections. The first section describes noninvasive measures of cerebral aging, including structural (e.g., volumetric MRI), chemical (e.g., dopamine PET), electrophysiological

(e.g., ERPs), and hemodynamic (e.g., fMRI), and discusses how they can be linked to behavioral measures of cognitive aging. The second section reviews evidence for the effects of aging on neural activity during different cognitive functions, including perception and attention, imagery, working memory, long-term memory, and prospective memory. The third section focuses on clinical and applied topics, such as the distinction between healthy

aging and Alzheimers disease and the use of cognitive training to ameliorate age-related cognitive decline. The last section describes theories that relate cognitive and cerebral aging, including models accounting for functional neuroimaging evidence and models supported by computer simulations. Taken together, the chapters in this volume provide the first unified and comprehensive overview of the new discipline of cognitive neuroscience of

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aging.

Core Readings

**Cognitive and Computational
Neuroscience**

Evolutionary Neuroscience

Cognition, Brain, and Consciousness

Fundamental Neuroscience

**An Introduction to the Event-Related
Potential Technique, second edition**

The book "Cognitive and Computational Neuroscience - Principles, Algorithms and Applications" will answer the following question and statements: System-level neural

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modeling: what and why? We know a lot about the brain!
Need to integrate data: molecular/cellular/system levels.
Complexity: need to abstract away higher-order principles.
Models are tools to develop explicit theories, constrained by multiple levels (neural and behavioral). Key: models (should) make novel testable predictions on both neural and behavioral levels. Models are useful tools for guiding experiments. The hope is that the information provided in this book will trigger new researches that will help to connect basic neuroscience to clinical medicine.

Cognitive Science provides a comprehensive introduction to the field from multiple perspectives to help readers better understand and answer questions about the mysteries of the mind. In each chapter, the authors focus on a particular area

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in cognitive science, exploring methodologies, theoretical perspectives, and findings, then offering the critical evaluations and conclusions drawn from them. Substantially updated with new and expanded content, the Third Edition reflects the latest research in this rapidly evolving field. This comprehensive textbook provides an up-to-date and accessible account of the theories that seek to explain the complex relationship between brain and behaviour. Drawing on the latest research findings from the disciplines of neuropsychology, neuroscience, cognitive neuroscience and cognitive neuropsychology, the author provides contemporary models of neuropsychological processes. The book provides a fresh perspective that takes into account the modern advances of functional neuroimaging and other new

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research techniques. The emphasis at all times is on bridging the gap between theory and practice - discussion of theoretical models is framed in a clinical context and the author makes frequent use of case studies to illustrate the clinical context. There is coverage of the neuropsychology of disorders associated with areas such as perception, attention, memory and language, emotion, and movement. A third-generation text, this book uniquely aims to integrate these different areas by describing the common influences of these functions. Following on from this there is information on the clinical management of patients in the area of recovery and rehabilitation. These last chapters focus on the author's own experience and illustrate the importance of a more systematic approach to intervention, which takes into

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account theoretical views of recovery from brain damage. Neuropsychology: From Theory to Practice is the first comprehensive textbook to cover research from all disciplines committed to understanding neuropsychology. It will provide a valuable resource for students, professionals and clinicians.

Since the turn of the twenty-first century, the psychology of emotion has grown to become its own field of study. Because the study of emotion draws inspiration from areas of science outside of psychology, including neuroscience, psychiatry, biology, genetics, computer science, zoology, and behavioral economics, the field is now often called emotion science or affective science. A subfield of affective science is affective neuroscience, the study of the emotional brain. This revised

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second edition of Psychology of Emotion reviews both theory and methods in emotion science, discussing findings about the brain; the function, expression, and regulation of emotion; similarities and differences due to gender and culture; the relationship between emotion and cognition; and emotion processes in groups. Comprehensive in its scope yet eminently readable, Psychology of Emotion serves as an ideal introduction for undergraduate students to the scientific study of emotion. It features effective learning devices such as bolded key terms, developmental details boxes, learning links, tables, graphs, and illustrations. In addition, a robust companion website offers instructor resources.

Principles, Algorithms and Applications

The Handbook of Attitudes, Volume 1: Basic Principles

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Cognitive Neuroscience of Aging : Linking Cognitive and
Cerebral Aging

Psychology of Emotion

Neural Circuit and Cognitive Development

Principles of Behavioral and Cognitive Neurology

The cognitive disorders that follow brain damage are an important source of insight into the neural bases of human thought. Although cognitive neuroscience is sometimes equated with cognitive neuroimaging, the patient-based approach to cognitive neuroscience is responsible for most of what we now know about the brain systems underlying perception, attention, memory, language, and higher-order forms of thought including consciousness. This volume brings

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together state-of-the-art reviews of the patient-based approach to these and other central issues in cognitive neuroscience, written by leading authorities. Part I covers the history, principles, and methods of patient-based neuroscience: lesion method, imaging, computational modeling, and anatomy. Part II covers perception and vision: sensory agnosias, disorders of body perception, attention and neglect, disorders of perception and awareness, and misidentification syndromes. Part III covers language: aphasia, language disorders in children, specific language impairments, developmental dyslexia, acquired reading disorders, and agraphia. Part IV covers memory: amnesia and semantic memory impairments. Part V covers higher cognitive functions: frontal lobes, callosal

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disconnection (split brain), skilled movement disorders, acalculia, dementia, delirium, and degenerative conditions including Alzheimer's disease, Parkinson's disease, and Huntington's disease. Contributors: Michael P. Alexander, Russell M. Bauer, Kathleen Baynes, D. Frank Benson, H. Branch Coslett, Jeffrey L. Cummings, Tim Curran, Antonio R. Damasio, Hanna Damasio, Ennio De Renzi, Maureen Dennis, Mark D'Esposito, Martha J. Farah, Todd E. Feinberg, Michael S. Gazzaniga, Georg Goldenberg, Jordan Grafman, Kenneth M. Heilman, Diane M. Jacobs, Daniel I. Kaufer, Daniel Y. Kimberg, Maureen W. Lovett, Richard Mayeux, M.-Marsel Mesulam, Bruce L. Miller, Robert D. Nebes, Robert D. Rafal, Marcus E. Raichle, Timothy Rickard, David M. Roane, David

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J. Roeltgen, Leslie J. Gonzalez Rothi, Eleanor M. Saffran,
Daniel L. Schacter, Karin Stromswold, Edward Valenstein,
Robert T. Watson, Tricia Zawacki, Stuart Zola.

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,

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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

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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.

Cognitive Development and Cognitive Neuroscience: The Learning Brain is a thoroughly revised edition of the bestselling Cognitive Development. The new edition of this full-colour textbook has been updated with the latest research in cognitive neuroscience, going beyond Piaget and traditional theories to demonstrate how emerging data from the brain

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sciences require a new theoretical framework for teaching cognitive development, based on learning. Building on the framework for teaching cognitive development presented in the first edition, Goswami shows how different cognitive domains such as language, causal reasoning and theory of mind may emerge from automatic neural perceptual processes. Cognitive Neuroscience and Cognitive Development integrates principles and data from cognitive science, neuroscience, computer modelling and studies of non-human animals into a model that transforms the study of cognitive development to produce both a key introductory text and a book which encourages the reader to move beyond the superficial and gain a deeper understanding of the subject

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matter. Cognitive Development and Cognitive Neuroscience is essential for students of developmental and cognitive psychology, education, language and the learning sciences. It will also be of interest to anyone training to work with children.

This title informs readers at all levels about the growing canon of cognitive neuroscience, and makes clear the challenges that remain to be solved by the next generation.

Introduction to Cognitive Neuroscience

An Introduction

Cognitive Neuroscience

The Design of Experiments in Neuroscience

Foundations of Cognitive Psychology

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Essentials of Cognitive Neuroscience

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

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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

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**PowerPoint, and a Question Bank for
adopting instructors.**

**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-**

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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

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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

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requires no previous knowledge of either neuroscience or linguistics, defining technical terms and explaining important principles from both disciplines along the way.

“You are about to start on a great adventure. You are going to transition from reading about science to becoming a scientist.” -From the Preface Using engaging, disarming prose, author Mary Harrington shows neuroscience students how to go about selecting a topic,

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designing an experiment, analyzing the results, and publishing a paper. This text effectively illustrates basic research methods and design principles by uniquely using relevant examples from neuroscience such as the principles of design of fMRI studies, the use of transgenic mice, and conditional gene knockouts. The author also addresses basic professional ethics, fundamental statistics and data analysis tools, the range of possible

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experimental designs (from simple descriptive studies to multifactorial designs), and ways to control unwanted variables and avoid common pitfalls. This text is intended as either a core or supplemental text for both undergraduates and graduate students studying research methods in Neuroscience, Neuroanatomy, Neurophysiology, Neurochemistry, or Biological Psychology.

Comprehensive Developmental

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Neuroscience
The Neurology of Consciousness
Cognitive Development and Cognitive
Neuroscience