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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.

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"Fundamentals of Cognitive Neuroscience: A Beginner's Guide should be widely used as the required text in focused cognitive neuroscience courses taught at the undergraduate level.

Additionally, the information it contains will likely be of use to those professors teaching a variety of psychology and biology elective courses and should be

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consulted for applicable reading material due to its clarity and style."

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Neuroscience: A Beginner's ...

Bottom right: The cortex is mounted on the brainstem and subcortex, which flows up from the spinal cord. The event-related EEG is a reminder that the young lady in A has a constant, dynamic flow of massive signal traffic flowing through her brain, which we can pick up with surface EEG.

Horizontal section
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NEUROSCIENCE At this point, you
should be developing a sense of
the kinds of issues that can arise
at the neurolaw intersection, why
those issues arise, the contexts in
which they arise, and how they
can play out. You should also be
beginning to see some of

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explores the structure and
function of the nervous
system—from the inner workings
of a single nerve cell to the
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Cognitive Neuroscience of Memory highlights both spatial and temporal aspects of the functioning human brain during memory. Each chapter is written in an accessible style and includes background information and many figures. In his analysis, Scott D. Slotnick questions popular views, rather than simply assuming they are correct. ...

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

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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-

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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

This introductory text offers a comprehensive and easy-to-follow guide to cognitive neuroscience. Chapters cover all aspects of the

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field - the neural framework, sight, sound, consciousness, learning/memory, problem solving, speech, executive control, emotions, socialization and development - in a student-friendly format with extensive pedagogy and ancillaries to aid both the student and professor. Throughout the text, case studies and everyday examples are used to help students understand the more challenging aspects of the material. Written by two leading experts in the field, the text takes a unique thematic approach, guiding students along a clear path to understand the latest findings whether or not they have a background in neuroscience. Complete introduction to mind-brain science, written to be highly

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Available to undergraduates with limited neuroscience training Richly illustrated with carefully selected color graphics to enhance understanding Enhanced pedagogy highlights key concepts for the student and aids in teaching - chapter outlines, study questions, glossary Ancillary support saves instructors time and facilitates learning - test questions, image collection, lecture slides, etc.

Fundamentals of Cognitive Neuroscience is a comprehensive and easy-to-follow guide to cognitive neuroscience. Winner of a 2013 Most Promising New Textbook Award from the Text and Academic Authors Association, this book was written

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Understand the more challenging aspects of the material. It is richly illustrated with carefully selected color graphics to enhance understanding. Enhanced pedagogy highlights key concepts for the student and aids in teaching. Chapter outlines, study questions, glossary, and image collection are also available on the student's companion website. Ancillary support saves instructors time and facilitates learning; test questions, image collection, and lecture slides are available on the instructor's manual website. This book will be of interest to undergraduate students in Neuroscience, Psychology, and related disciplines that teach cognitive neuroscience. Provides a

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A complete introduction to mind-brain science, written to be highly accessible to undergraduates with limited neuroscience training. Richly illustrated with carefully selected color graphics to enhance understanding. Enhanced pedagogy highlights key concepts for the student and aids in teaching - chapter outlines, study questions, glossary, and image collection are also available on student's companion website. Ancillary support saves instructors time and facilitates learning - test questions, image collection, and lecture slides available on instructor's manual website.

This title informs readers at all levels about the growing canon of

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A Beginner's Guide, and makes clear the challenges that remain to be solved by the next generation.

Is it possible to learn something without being aware of it? How does emotion influence the way we think? How can we improve our memory? Fundamentals of Cognition, third edition, provides a basic, reader-friendly introduction to the key cognitive processes we use to interact successfully with the world around us. Our abilities in attention, perception, learning, memory, language, problem solving, thinking, and reasoning are all vitally important in enabling us to cope with everyday life. Understanding

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these processes through the study of cognitive psychology is essential for understanding human behaviour. This edition has been thoroughly updated and revised with an emphasis on making it even more accessible to introductory-level students.

Bringing on board Professor Marc Brysbaert, a world-leading researcher in the psychology of language, as co-author, this new edition includes: developed and extended research activities and "In the Real World" case studies to make it easy for students to engage with the material; new real-world topics such as discussions of attention-deficit/hyperactivity disorder, the reading problems of individuals with dyslexia, why magic tricks

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work, and why we cannot remember the Apple logo accurately; a supporting companion website containing multiple choice questions, flashcards, sample essay answers, instructor resources, and more. The book provides a perfect balance between traditional approaches to cognition and cutting-edge cognitive neuroscience and cognitive neuropsychology. Covering all the key topics within cognition, this comprehensive overview is essential reading for all students of cognitive psychology and related areas such as clinical psychology.

What is cognitive science? The
Foundations of Cognitive Science

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A Beginner's Guide answers this question in a way that gives a feeling for the excitement, ferment, and accomplishments of this new field. It is the first broad treatment of cognitive science at an advanced level. Complete and authoritative, *The Foundations of Cognitive Science* covers the major architectures; provides background in philosophy, linguistics, cognitive psychology, and neuroscience; and deals with methods for studying both brain and mind. All of the chapters have been written especially for the book by the leading scholars in the field. The foundations of cognitive science are developed in seven chapters covering computation, symbolic architectures, parallel distributed

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Processing, grammars, semantics and formal logic, experimental cognitive science, and brain and cognition. These are then applied to the major cognitive domains of language acquisition, reading, discourse, mental models, categories and induction, problem solving, vision, visual attention, memory, action and motor control. The Foundations of Cognitive Science concludes with an assessment by a philosopher and a cognitive anthropologist. Michael I. Posner is Professor of Psychology at the University of Oregon. A Bradford Book. Contributors: Herbert A. Simon Craig A. Kaplan Zenon W. Pylyshyn Allen Newell John E. Laird Paul S. Rosenbloom David E. Rumelhart Thomas Wasow Jon

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Gilbert Harman Contents:

Computation, Symbolic

Architectures, Parallel Distributed

Processing, Grammars, Semantics

and Formal Logic, Experimental

Cognitive Science, Brain and

Cognition, Language Acquisition,

Reading, Discourse, Mental

Models, Categories and Induction,

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A Beginner's Guide
Problem Solving, Vision, Visual
Attention, Memory, Action, Motor
Control, Culture, Philosophical
Critique

With its reader-friendly style, this concise text offers a solid introduction to the fundamental concepts of cognitive psychology. Covering neuroimaging, emotion, and cognitive development, author Ronald T. Kellogg integrates the latest developments in cognitive neuroscience for a cutting-edge exploration of the field today. With new pedagogy, relevant examples, and an expanded full-color insert, Fundamentals of Cognitive Psychology, Third Edition is sure to engage students interested in an accessible and

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Applied approach to cognitive
psychology.

Within the last two decades, the field of cognitive neuroscience has begun to thrive, with technological advances that non-invasively measure human brain activity. This is the first book to provide a comprehensive and up-to-date treatment on the cognitive neuroscience of memory. Topics include cognitive neuroscience techniques and human brain mechanisms underlying long-term memory success, long-term memory failure, working memory, implicit memory, and memory and disease. Cognitive Neuroscience of Memory highlights both spatial and temporal aspects of the

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functioning human brain during memory. Each chapter is written in an accessible style and includes background information and many figures. In his analysis, Scott D. Slotnick questions popular views, rather than simply assuming they are correct. In this way, science is depicted as open to question, evolving, and exciting.

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

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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 with concise, detailed

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

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

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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.

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