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In addition, she is author of a textbook in Cognitive Neuroscience now in its third edition, currently being revised for the fourth edition. Among her other professional experiences, Prof. Banich has been a member of the MacArthur Foundation on Adolescent Development and Juvenile Justice, a Fulbright Senior Scholar in Verona, Italy, and has recently received a James McKeen Cattell Sabbatical Award.

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Marie T. Banich is the author of Cognitive Neuroscience (3.98 avg rating, 51 ratings, 2 reviews, published 2005), Cognitive Neuroscience and Neuropsychol...

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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

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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.

This text balances experimental and clinical perspectives with a survey of a variety of mental functions. In a conversational style, the authors provide clear, accessible explanations of difficult concepts, making use of analogies and case studies to illustrate them. A consistent structure throughout each chapter defines a mental function and the role of each part or parts of the brain in that function, followed by a discussion of what neuropsychological syndromes say about the cognitive and neural organization of the mental function. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Updated thoroughly, this comprehensive text highlights the most important issues in cognitive neuroscience, supported by clinical applications.

Cognitive Neuroscience and Neuropsychology.

Cognitive Science combines the interdisciplinary streams of cognitive science into a unified narrative in an all-encompassing introduction to the field. This text presents cognitive science as a discipline in its own right, and teaches students to apply the techniques and theories of the cognitive scientist's 'toolkit' - the vast range of methods and tools that cognitive scientists use to study the mind. Thematically organized, rather than by separate disciplines, Cognitive Science underscores the problems and solutions of cognitive science, rather than those of the subjects that contribute to it - psychology, neuroscience, linguistics, etc. The generous use of examples, illustrations, and applications demonstrates how theory is applied to unlock the mysteries of the human mind. Drawing upon cutting-edge research, the text has been updated and enhanced to incorporate new studies and key experiments since the first edition. A new chapter on consciousness has also been added.

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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

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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.

A student guide to neuroscience research including how to select a topic, analyze data, and present research.

In *Trouble in Mind*, neuropsychologist Jenni Ogden, author of *Fractured Minds*, transports the reader into the world of some of her most memorable neurological patients as she explores with compassion, insight, and vivid description the human side of brain damage. These are tales of patients who, as the result of stroke, brain tumor, car crash, or neurological disease, begin thinking and behaving strangely, and with their loved ones' support embark on the long journey to recovery, acceptance of disability and sometimes, death. There is Luke, the gang member who loses his speech but finds he can still sing his favorite blues number "Trouble in Mind," and HM, who teaches the world about memory and becomes the most studied single case in medical history. You will meet Julian, who misplaces his

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internal map of the human body, and Melody, a singer who risks losing her song when she undergoes brain surgery to cure her epilepsy. Then there is Kim with a severe head injury, and Sophie who has just enough time to put her house in order before Alzheimer's dementia steals her insight. For these and the many other patients whose stories are told in this book, the struggle to understand their disordered minds and disobedient bodies takes extraordinary courage, determination, and patience. For health professionals and researchers working with these patients, the ethical and emotional challenges can be as demanding as the intellectual and treatment decisions they make daily. *Trouble In Mind* is written in an accessible narrative style that is both accurate and intimate. It will be enjoyed by readers -- whether students, researchers, or professionals in mental health and neuroscience, patients with neurological disorders and their families, or general readers -- who want to learn more about brain disorders and the doctors who care for those who suffer them.

To understand how the brain learns and remembers requires an integration of psychological concepts and behavioral methods with mechanisms of synaptic plasticity and systems neuroscience. The *Neurobiology of Learning and Memory, Second Edition* provides a synthesis of this interdisciplinary field. Each chapter makes the key

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concepts transparent and accessible to a reader with minimal background in either neurobiology or psychology and is extensively illustrated with full-color photographs and figures depicting important concepts and experimental data. Like the First Edition, the Second Edition is organized into three parts. However, each part has been expanded to include new chapters or reorganized to incorporate new findings and concepts. Part One introduces the idea that synapses modified by experience provide the basis for memory storage. It next describes the long-term potentiation methodology used to study how synapses are modified and concepts needed to understand the organization of synapses. The remaining chapters are organized around the idea that the synaptic changes that support long-term potentiation evolve in four overlapping stages referred to as (a) generation, (b) stabilization, (c) consolidation, and (d) maintenance. The goal of each chapter is to reveal that each stage depends on unique molecular processes and to describe what they are. Part Two builds on this foundation to show how molecules and cellular processes that have been identified from studies of synaptic plasticity also participate in the making of memories. It discusses some of the basic conceptual issues researchers face in trying to relate memory to synaptic molecules and describes some of the behavioral and neurobiological methods that are used. The chapters

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describing the processes involved in memory formation and consolidation have been extensively modified to provide a more detailed account of the molecular events that are engaged to ensure that establ

Language is one of our most precious and uniquely human capacities, so it is not surprising that research on its neural substrates has been advancing quite rapidly in recent years. Until now, however, there has not been a single introductory textbook that focuses specifically on this topic. *Cognitive Neuroscience of Language* fills that gap by providing an up-to-date, wide-ranging, and pedagogically practical survey of the most important developments in the field. It guides students through all of the major areas of investigation, beginning with fundamental aspects of brain structure and function, and then proceeding to cover aphasia syndromes, the perception and production of speech, the processing of language in written and signed modalities, the meanings of words, and the formulation and comprehension of complex expressions, including grammatically inflected words, complete sentences, and entire stories. Drawing heavily on prominent theoretical models, the core chapters illustrate how such frameworks are supported, and sometimes challenged, by experiments employing diverse brain mapping techniques. Although much

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of the content is inherently challenging and intended primarily for graduate or upper-level undergraduate students, it requires no previous knowledge of either neuroscience or linguistics, defining technical terms and explaining important principles from both disciplines along the way.

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