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Exploring Cognition: Damaged Brains and Neural Networks analyses the contribution made by cognitive neuropsychology and connectionist modelling to theoretical explanations of cognitive processes. Bringing together evidence from both damaged brains and neural networks, this exciting and innovative approach leads to re-evaluation of traditional theories: connectionist models lesioned to mimic the residual function of the damaged brain and rehabilitated to simulate the process of recovery suggest underlying mechanisms and challenge previous interpretations. In this reader key articles by leading international researchers are combined with linking commentaries that provide a context, highlight the conceptual themes and evaluate the evidence. Carefully selected to include hotly debated topics, the papers cover, among others, the controversies surrounding explanations for category specificity in object recognition and for covert recognition of faces and words; the mechanisms underlying the use of regular and irregular past tenses; and the reading of regularly and irregularly spelled words. The challenges posed by connectionist models to assumptions about the nature of dissociations, the need for symbolic rule-based operations in language processing and the modularity and localisation of processes are assessed. Exploring Cognition: Damaged Brains and Neural Networks will be of interest to advanced undergraduates, postgraduates and researchers in cognitive neuropsychology and cognitive neuroscience.
David Klahr suggests that we now know enough about cognition--and hence about everyday thinking--to advance our understanding of scientific thinking.
One of the most successful texts ever published on its subject, the new Seventh Edition focuses on the insights and ideas that drive the field and supports student learning. Three exciting features—a new pedagogical program based on the "testing effect," a comprehensive, author-created instructorÕs guide, and ZAPS Cognition Labs—deliver a dynamic, interactive introduction to cognitive psychology today.
Advances in the social sciences are used to uncover cognitive foundations of social decision making.

Brings together in one volume important material from various hard-to-locate sources, giving the reader access to a body of work from one of the founders of music psychology Complements and updates Sloboda's 'The musical mind'
Creative Cognition combines original experiments with existing work in cognitive psychology to provide the first explicit account of the cognitive processes and structures that contribute to creative thinking and discovery. Creative Cognition combines original experiments with existing work in cognitive psychology to provide the first explicit account of the cognitive processes and structures that contribute to creative thinking and discovery. In separate chapters, the authors take up visualization, concept formation, categorization, memory retrieval, and problem solving. They describe novel experimental methods for studying creative cognitive processes under controlled laboratory conditions, along with techniques that can be used to generate many different types of inventions and concepts. Unlike traditional approaches, Creative Cognition considers creativity as a product of numerous cognitive processes, each of which helps to set the stage for insight and discovery. It identifies many of these processes as well as general principles of creative cognition that can be applied across a variety of different domains, with examples in artificial intelligence, engineering design, product development, architecture, education, and the visual arts. Following a summary of previous approaches to creativity, the authors present a theoretical model of the creative process. They review research involving an innovative imagery recombination technique, developed by Finke, that clearly demonstrates that creative inventions can be induced in the laboratory. They then describe experiments in category learning that support the provocative claim that the factors constraining category formation similarly constrain imagination and illustrate the role of various memory processes and other strategies in creative problem solving.
While widely studied, the capacity of the human mind remains largely unexplored. As such, researchers are continually seeking ways to understand the brain, its function, and its impact on human behavior. Exploring Implicit Cognition: Learning, Memory, and Social Cognitive Processes explores research surrounding the ways in which an individual’s unconscious is able to influence and impact that person’s behavior without their awareness. Focusing on topics pertaining to social cognition and the unconscious process, this title is ideal for use by students, researchers, psychologists, and academicians interested in the latest insights into implicit cognition.
A proposal for a new way to do cognitive science argues that cognition should be described in terms of agent-environment dynamics rather than computation and representation. While philosophers of mind have been arguing over the status of mental representations in cognitive science, cognitive scientists have been quietly engaged in studying perception, action, and cognition without explaining them in terms of mental representation. In this book, Anthony Chemero describes this nonrepresentational approach (which he terms radical embodied cognitive science), puts it in historical and conceptual context, and applies it to traditional problems in the philosophy of mind. Radical embodied cognitive science is a direct descendant of the American naturalist psychology of William James and John Dewey, and follows them in viewing perception and cognition to be understandable only in terms of action in the environment. Chemero argues that cognition should be described in terms of agent-environment dynamics rather than in terms of computation and representation. After outlining this orientation to cognition, Chemero proposes a methodology: dynamical systems theory, which would explain things dynamically and without reference to representation. He also advances a background theory: Gibsonian ecological psychology, “shored up” and clarified. Chemero then looks at some traditional philosophical problems (reductionism, epistemological skepticism, metaphysical realism, consciousness) through the lens of radical embodied cognitive science and concludes that the comparative ease with which it resolves these problems, combined with its empirical promise, makes this approach to cognitive science a rewarding one. “Jerry Fodor is my favorite philosopher,” Chemero writes in his preface, adding, “I think that Jerry Fodor is wrong about nearly everything.” With this book, Chemero explains nonrepresentational, dynamical, ecological cognitive science as clearly and as rigorously as Jerry Fodor explained computational cognitive science in his classic work The Language of Thought.
The cognitive science of religion examines the mental processes that govern religious belief and behaviour. It offers a fresh and exciting approach to the scientific study of religion. 'Religion and Cognition' brings together key essays which outline the theory and illustrate this with experimental case material. The central topics in this new critical field of research are all addressed: meta-theoretical arguments for cognitive explanations of religion; theoretical models of cognition employed in the cognitive science of religion; prominent cognitive theories of religion; methods used to gather data and test theories; and experimental findings by cognitive scientists of religion.
CELL TYPES IN THE THALAMUS AND CORTEX -- INTRINSIC MEMBRANE PROPERTIES -- SYNAPTIC PROPERTIES -- GLUTAMATERGIC DRIVERS AND MODULATORS -- FIRST AND HIGHER ORDER THALAMIC RELAYS -- THALAMIC CIRCUITRY -- BRIEF OVERVIEW OF CORTICAL ORGANIZATION -- CLASSIFICATION OF THALAMOCORTICAL AND CORTICOTHALAMIC MOTIFS -- SPIKE TIMING AND THALAMOCORTICAL INTERACTIONS -- PARALLEL PROCESSING OF SENSORY SIGNALS TO CORTEX -- THALAMOCORTICAL SUBSTRATES OF ATTENTION -- CORTICOTHALAMIC CIRCUITS LINKING SENSATION AND ACTION.
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This book puts cognition back at the heart of the language learning process and challenges the idea that language acquisition can be meaningfully understood as a purely linguistic phenomenon. For each domain placed under the spotlight - memory, attention, inhibition, categorisation, analogy and social cognition - the book examines how they shape the development of sounds, words and grammar. The unfolding cognitive and social world of the child interacts with, constrains, and predicts language use at its deepest levels. The conclusion is that language is special, not because it is an encapsulated module separate from the rest of cognition, but because of the forms it can take rather than the parts it is made of, and because it could be nature’s finest example of cognitive recycling and reuse.

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The textbook engages students in the scientific process through its integrated treatment of research methods and strong coverage of key experiments. The companion Cognition Workbook contains essays, activities, and demonstrations that focus on the real--world applications of cognitive psychology. The ZAPS Online Labs invite students to experience psychological phenomena and classical experiments in a vivid and engaging environment.
Computers have become a topic of concern, debate, argument, dogmatism, and inquiry among a variety of people who are interested in the fate and effectiveness of the educational system. This book presents working hypotheses of ways in which computers may fit into and/or transform classroom education. Through the exploration of learning and cognitive theory as it infuses technological developments, this volume promises to illuminate a number of important issues, including experiential learning and nontraditional computer-based instruction.
Exercise-Cognition Interaction: Neuroscience Perspectives is the only book on the market that examines the neuroscientific correlation between exercise and cognitive functioning. The upsurge in research in recent years has confirmed that cognitive-psychology theory cannot account for the effects of exercise on cognition, and both acute and chronic exercise effect neurochemical and psychophysiological changes in the brain that, in turn, affect cognitive functioning. This book provides an overview of the research into these effects, from theoretical research through current studies that emphasize neuroscientific theories and rationales. It addition, users will find a thorough examination of the effects of exercise interventions on cognitive functioning in special populations, including the elderly, children, and those suffering from a variety of diseases, including schizophrenia, diabetes, and an array of neurological disorders. With contributions from leading researchers in the field, this book will be the go-to resource for neuroscientists, psychologists, medical professionals, and other researchers who need an understanding of the role exercise plays in cognitive functioning. Provides a comprehensive account of how exercise affects brain functioning, which in turn affects cognition Covers both theory and empirical research Presents a thorough examination of the effects of exercise interventions on cognitive functioning in special populations, including the elderly, children, and those suffering from a variety of diseases Examines neurochemical, psychophysiological, and genetic factors Covers acute and chronic exercise

Analogy has been the focus of extensive research in cognitive science over the past two decades. Through analogy, novel situations and problems can be understood in terms of familiar ones. Indeed, a case can be made for analogical processing as the very core of cognition. This is the first book to span the full range of disciplines concerned with analogy. Its contributors represent cognitive, developmental, and comparative psychology; neuroscience; artificial intelligence; linguistics; and philosophy. The book is divided into three parts. The first part describes computational models of analogy as well as their relation to computational models of other cognitive processes. The second part addresses the role of analogy in a wide range of cognitive tasks, such as forming complex cognitive structures, conveying emotion, making decisions, and solving problems. The third part looks at the development of analogy in children and the possible use of analogy in nonhuman primates. Contributors Miriam Bassok, Consuelo B. Boronat, Brian Bowdle, Fintan Costello, Kevin Dunbar, Gilles Fauconnier, Kenneth D. Forbus, Dedre Gentner, Usha Goswami, Brett Gray, Graeme S. Halford, Douglas Hofstadter, Keith J. Holyoak, John E. Hummel, Mark T. Keane, Boicho N. Kokinov, Arthur B. Markman, C. Page Moreau, David L. Oden, Alexander A. Petrov, Steven Phillips, David Premack, Cameron Shelley, Paul Thagard, Roger K.R. Thompson, William H. Wilson, Phillip Wolff
In this book, the editors bring together results from studies on all kinds of animals to show how thinking on many behaviors as truly cognitive processes can help us to understand the biology involved. Taking ideas and observations from the while range of research into animal behavior leads to unexpected and stimulating ideas. A space is created where the work of field ecologists, evolutionary ecologists and experimental psychologists can interact and contribute to a greater understanding of complex animal behavior, and to the development of a new and coherent field of study.
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 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 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 eFlashcords 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 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.

One of the most successful cognitive psychology texts ever published: up-to-date, authoritative, and clearly written.

Cognition uses the best of current research to help students think like psychologists and understand how cognitive psychology is relevant to their lives. The sixth edition offers revised and revitalised ZAPS 2.0 Cognition Labs, enhanced neuroscience illustrations and a new ebook, providing a highly interactive way for students to learn cognitive psychology.

With new digital tools for retrieval practice and active learning, the Eighth Edition is more effective and engaging than ever. Four exciting features deliver a dynamic, interactive introduction to cognitive psychology today:New InQuizitive science-based adaptive assessmentA pedagogical program based on the Òtesting effectÓNew ZAPS 3.0 Interactive LabsAuthor-created Norton Teaching Tools and a new online Applying Cognitive Psychology reader

In many cases our ability to remember our experiences is crucial for the justice system. The problem, though, is that perception and memory are fallible. How often do our eyes or memories deceive us? Is there some way to avoid these errors, perhaps by gathering our memory-based evidence in just the right way? Can we specify the circumstances in which perceptual or memory errors are more or less likely to occur? Daniel Reisberg tackles these questions, drawing on the available science and also his experience in training attorneys.

Cognition: Exploring the Science of the Mind text and workbook, work together with the ZAPS online labs to engage students in the scientific process and emphasize the relevance of cognitive psychology. The textbook engages students in the scientific process through its integrated treatment of research methods and strong coverage of key experiments. The companion Cognition Workbook contains essays, activities, and demonstrations that focus on the real-world applications of cognitive psychology. The ZAPS Online Labs invite students to experience psychological phenomena and classical experiments in a vivid and engaging environment.

Largely through trial and error, filmmakers have developed engaging techniques that capture our sensations, thoughts, and feelings. Philosophers and film theorists have thought deeply about the nature and impact of these techniques, yet few scientists have delved into empirical analyses of our movie experience-or what Arthur P. Shimamura has coined "psychocinematics." This edited volume introduces this exciting field by bringing together film theorists, philosophers, psychologists, and neuroscientists to consider the viability of a scientific approach to our movie experience.

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.

Since its inception some fifty years ago, cognitive science has seen a number of sea changes. Perhaps the best known is the development of connectionist models of cognition as an alternative to classical, symbol-based approaches. A more recent - and increasingly influential - trend is that of dynamical-systems-based, ecologically oriented models of the mind. Researchers suggest that a full understanding of the mind will require systematic study of the dynamics of interaction between mind, body, and world. Some argue that this new orientation calls for a revolutionary new metaphysics of mind, according to which mental states and processes, and even persons, literally extend into the environment. This book is a guide to this movement in cognitive science. Each chapter tackles either a specific area of empirical research or specific sector of the conceptual foundation underlying this research.

Unlike any other book, Avian Cognition thoroughly examines avian intelligence, behavior, and individuality. Preferences, choices, motivation, and habits of species, flocks, and individual birds are discussed and compared. This book investigates who birds are and why they do what they do. Daily, seasonal, and play activities, creativity, reasoning a

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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 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.

With new digital tools for retrieval practice and active learning, the Eighth Edition is more effective and engaging than ever. Four exciting features deliver a dynamic, interactive introduction to cognitive psychology today: NewInQuizitivescience-based adaptive assessment A pedagogical program based on the "testing effect" New ZAPS 3.0 Interactive Labs Author-created Norton Teaching Tools andanewonline Applying Cognitive Psychology reader

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 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 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.