

Patient-Based Approaches to Cognitive Neuroscience (Issues in Clinical and Cognitive Neuropsychology)

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The cognitive disorders that follow brain damage are an important source of insights into the neural bases of human thought. This second edition of the widely acclaimed *Patient-Based Approaches to Cognitive Neuroscience* offers state-of-the-art reviews of the patient-based approach to central issues in cognitive neuroscience by leaders in the field.

The second edition has been thoroughly updated, with new coverage of methods from imaging to transcranial magnetic stimulation to genetics and topics from plasticity to executive function to mathematical thought. Part I, on the history and methods of cognitive neuroscience and behavioral neurology, includes two new chapters on imaging, one covering the basics of fMRI in normal humans and the other on the functional imaging of brain-damaged patients, as well as updated chapters on electrophysiological methods and computer modeling. Part II, on perception and attention, includes new chapters on visual perception and spatial cognition as well as attention, visual, tactile, and auditory recognition, music perception, body concept, and delusions. Part III, on language, covers many aspects of language processing in adults and children, including reading. Part IV discusses memory and prefrontal function, including semantic memory and executive functions. Part V covers dementias and developmental disorders, among them Alzheimer's and Parkinson's diseases, mental retardation, ADHD, and autism, and includes a chapter on the molecular genetics of cognitive disorders.

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Editorial Review

Review

This is a stimulating synthesis of the theory and methodology of cognitive neuroscience and the clinical insights of behavioral neurology. With its concise treatments of a wide range of cognitive disorders, the book provides an invaluable and readable manual for both clinicians and non-clinicians, researchers and practitioners alike.

(**T. W. Robbins**, Professor of Cognitive Neuroscience, University of Cambridge)

About the Author
Martha J. Farah is Walter H. Annenberg Professor of Natural Sciences in the Department of Psychology at the University of Pennsylvania, where she directs the Center for Neuroscience & Society. She has worked on many topics within neuroscience, including vision, prefrontal function, emotion, and development. In her three decades of research she has witnessed the advent of functional neuroimaging, the burgeoning of cognitive neuroscience, and its expansion into the study of social and affective processes. She is now focusing her attention on the ethical, legal and social implications of these developments.

Todd E. Feinberg is Professor of Psychiatry and Neurology at the Icahn School of Medicine at Mount Sinai, New York.

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