



# The Cognitive Neuroscience of Memory: Encoding and Retrieval (Studies in Cognition)

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Recent advances in techniques available to memory researchers have led to a rapid expansion in the field of cognitive neuroscience of memory. This book provides accessible coverage of four key areas of recent advance, including research on functional imaging, electrophysiological and lesion studies, and developments from the computational modelling approach.

The first section reviews functional imaging studies in humans, with particular emphasis on how imaging methods have clarified the cortical areas involved in memory formation and retrieval. The second section describes electrophysiological and lesion research in monkeys, where lesion and disconnection studies are rapidly adding to our knowledge of both information processing and modulatory aspects of memory formation. In the third section, electrophysiological and lesion studies in rats are reviewed allowing for a detailed study of the role of novelty and exploration in memory formation. The final section reviews current research in computational modelling which has allowed the development of new theoretical and experimental approaches to the study of memory encoding and retrieval.

This volume draws together the current developments in each field, allowing the synthesis of ideas and providing converging evidence from a range of sources. It will be a useful resource for both advanced undergraduate and postgraduate students of psychology, as well as researchers in the field and anyone with an interest in cognitive neuroscience.



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