

Fiber Pathways of the Brain



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This unique volume is a comprehensive, well-illustrated study of the organization of the white matter pathways of the brain. Schmahmann and Pandya have analyzed and synthesized the corticocortical and corticosubcortical connections of the major areas of the cerebral cortex of the rhesus monkey. The result is a detailed understanding of the constituents of the cerebral white matter and the organization of the fiber tracts. The findings from the 36 cases studied are presented on a single template brain, facilitating comparison of the locations of the different fiber pathways. The summary diagrams provide a comprehensive atlas of the cerebral white matter. The text is enriched by close attention to functional aspects of the anatomical observations. The clinical relevance of the pathways is addressed throughout the text and a chapter is devoted to human white matter diseases. The introductory account gives a detailed historical background. Translations of seminal original observations by early investigators are presented, and when these are considered in the light of the authors' new observations, many longstanding conflicts and debates are resolved. This scholarly book is an important addition to systems and cognitive neuroscience that will be of lasting value to neurobiologists, anatomists, neurologists, neurosurgeons, neuroradiologists, psychiatrists, psychologists, and to their students and trainees.

作者介绍:

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