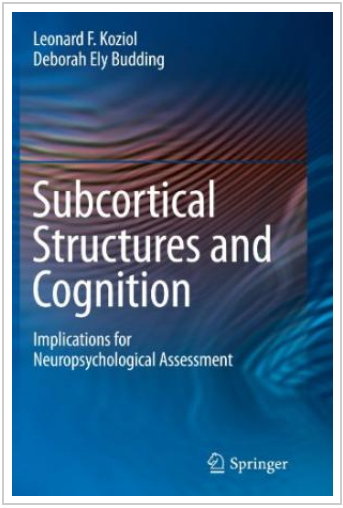

Subcortical Structures and Cognition: Implications for Neuropsychological Assessment

By Leonard F. Koziol, Deborah Ely Budding

Springer-Verlag New York Inc., United States, 2010. Paperback. Book Condition: New. 2009 ed.. 228 x 154 mm. Language: English . Brand New Book. Clinical psychologists and neuropsychologists are traditionally taught that cognition is mediated by the cortex and that subcortical brain regions mediate the coordination of movement. However, this argument can easily be challenged based upon the anatomic organization of the brain. The relationship between the prefrontal cortex/frontal lobes and basal ganglia is characterized by loops from these anterior brain regions to the striatum, the globus pallidus, and the thalamus, and then back to the frontal cortex. There is also a cerebrocerebellar system defined by projections from the cerebral cortex to the pontine nuclei, to the cerebellar cortex and deep cerebellar nuclei, to the red nucleus and then back to thalamus and cerebral cortex, including all regions of the frontal lobes. Therefore, both the cortical-striatal and cortical-cerebellar projections are anatomically defined as re-entrant systems that are obviously in a position to influence not only motor behavior, but also cognition and affect. This represents overwhelming evidence based upon neuroanatomy alone that subcortical regions play a role in cognition. The first half of this book defines the functional neuroanatomy of cortical-subcortical circuitries...

Reviews

Very helpful to any or all category of folks. It is writter in simple phrases rather than difficult to understand. Its been developed in an exceptionally simple way and is particularly just after i finished reading this pdf in which basically transformed me, modify the way in my opinion.

-- ***Hank Runte***

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