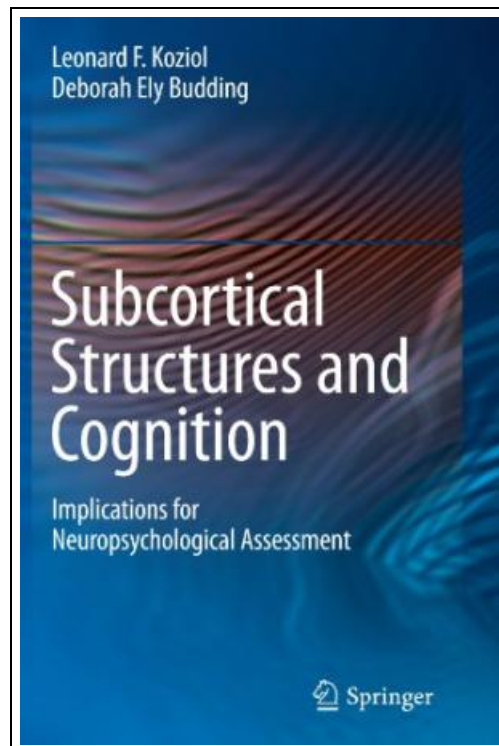


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SUBCORTICAL STRUCTURES AND COGNITION: IMPLICATIONS FOR NEUROPSYCHOLOGICAL ASSESSMENT



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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 and establishes that since structure is related to function, what the basal ganglia and cerebellum do for movement they also do for cognition and emotion. The second half of the book examines neuropsychological assessment. Patients with lesions restricted to the cerebellum and/or basal ganglia have been described as exhibiting a variety of cognitive deficits on neuropsychological tests. Numerous investigations have demonstrated that higher-level cognitive functions such as attention, executive functioning, language, visuospatial processing, and learning and memory are affected by subcortical pathologies. There is also considerable evidence that the basal ganglia and cerebellum play a critical role in the regulation...



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