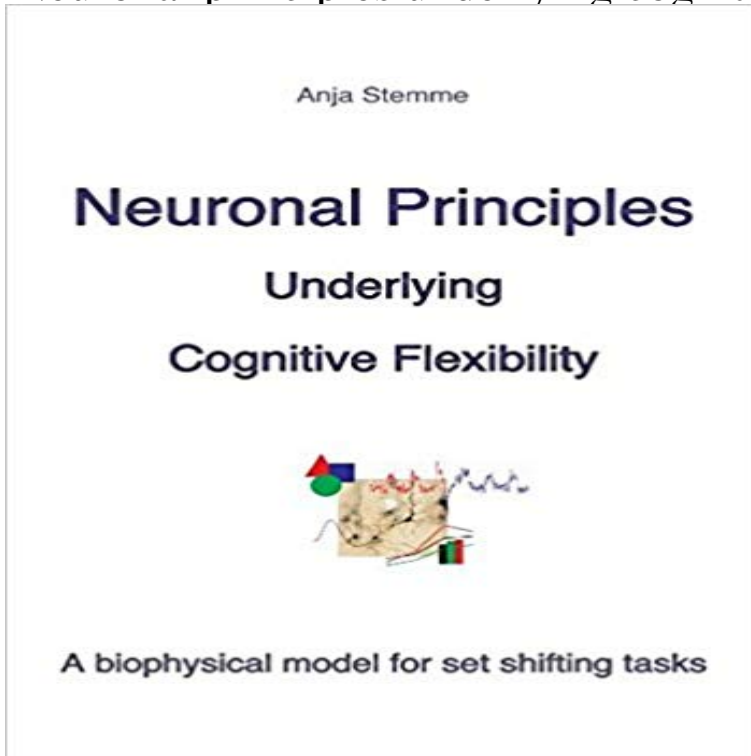


## Neuronal principles underlying cognitive flexibility



The ability of humans to adapt their behavior (sometimes rapidly) according to context requirements is referred to as cognitive flexibility. This flexibility is thought to be associated to a great extent with the prefrontal cortex and experimentally investigated using set shifting tasks as the Wisconsin Card Sorting Test for example. Several psychiatric and neurologic patient groups show an impaired performance in these tasks which allows to draw conclusions with respect to the neuronal base of cognitive flexibility. These are, amongst other data, usable for a neuronal modeling process. Thus, the work describes the design of a biophysical detailed neuronal model for the simulation of set shifting tasks which enables the comparison with available neuroimaging data and permits an extensive simulation of human behavior in an example experiment. Thereby a new concept behind set shifting and hence behind cognitive flexibility is illustrated which demonstrates as well the high potential of a close interaction between biophysically detailed neuronal models, computational simulations and (psychologic) experimental investigations.

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Serotonin is implicated in mood and affective disorders but growing evidence suggests that its core endogenous role may be to **Activity patterns of serotonin neurons underlying cognitive flexibility** Author Anja Stemme. The ability of humans to adapt their behavior (sometimes rapidly) according to context requirements is referred to as cognitive flexibility. **Neuronal principles underlying cognitive flexibility - Books on** Principles and Practices Kristin L. Bigos, Ahmad R. Hariri, Daniel R. Weinberger. There has also been evidence of this polymorphism influencing neuronal activity during a (2006), cognitive flexibility (Garcia-Garcia, Barcelo, et al. a complete picture of the molecular architecture underlying cognitive aging will undoubtedly **Firing patterns of serotonin neurons underlying cognitive flexibility** The neuronal dynamics underlying cognitive flexibility in set shifting tasks. Authors Authors and affiliations. 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