



A New Understanding of Mental Disorders: Computational Models for Dimensional Psychiatry (Hardback)

By Andreas Heinz

MIT Press Ltd, United States, 2017. Hardback. Condition: New. Language: English . Brand New Book.

A new computational and dimensional approach to understanding and classifying mental disorders: modeling key learning and decision-making mechanisms across different mental disorders. Even as researchers look for neurobiological correlates of mental disorders, many of these disorders are still classified solely according to the manifestation of clinical symptoms. Neurobiological findings rarely help diagnose a specific disease or predict its outcome. Although current diagnostic categories are questionable (sometimes labeling common states of human suffering as disorders), traditional neuroimaging approaches are not sophisticated enough to capture the neurobiological markers of mental disorder. In this book, Andreas Heinz proposes a computational and dimensional approach to understanding and classifying mental disorders: modeling key learning and decision-making mechanisms across different mental disorders. Such an approach focuses on the malleability and diversity of human behavior and its biological underpinnings. Heinz explains basic learning mechanisms and their effects on human behavior, focusing not on single disorders but on how such mechanisms work in a multitude of mental states. For example, he traces alterations in dopamine-reinforcement learning in psychotic, affective, and addictive disorders. He investigates to what extent these basic dimensions of mental disorders can account...



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