



Ambiguity in mind and nature : multistable cognitive phenomena /

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Monografía

Ambiguity in Mind and Nature is the result of cognitive multistability, the phenomenon in which an unchanging stimulus, usually visual, gives rise in the subject to an oscillating perceptual interpretation. The vase/face picture is one of the most famous examples. In this book scientists from many disciplines including physics, biology, psychology, maths and computer science, present recent progress in this fascinating area of cognitive science. Using the phenomenon of multistability as a paradigm they seek to understand how meaning originates in the brain as a consequence of cognitive processes. New advances are achieved by applying concepts such as self-organization, chaos theory and complex systems to the latest results of psychological and neurophysical experiments

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Formation of Meaning / H. Haken -- Multistability as a Research Tool in Experimental Phenomenology / G. Kanizsa and R. Luccio -- The Significance of Perceptual Multistability for Research on Cognitive Self-Organization / P. Kruse, D. Struber and M. Stadler -- Task, Intention, Context, Globality, Ambiguity: More of the Same / C. van Leeuwen -- Multistability -- More than just a Freak Phenomenon / A.C. Zimmer -- Recognition of Dynamic Patterns by a Synergetic Computer / R. Haas, A. Fuchs, H. Haken, E. Horvath, A.S. Pandya and J.A.S. Kelso -- Multistability and Metastability in Perceptual and Brain Dynamics / J.A.S. Kelso, P. Case, T. Holroyd, E. Horvath, J. Raczszek, B. Tuller and M. Ding -- Self-Organizational Processes in Animal Cognition / G. Vetter

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