



Mathematical Principles of Human Conceptual Behavior: The Structural Nature of Conceptual Representation and Processing (Scientific Psychology Series)

Ronaldo Vigo

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The ability to learn concepts lies at the very core of human cognition, enabling us to efficiently classify, organize, identify, and store complex information. In view of the basic role that concepts play in our everyday physical and mental lives, the fields of cognitive science and psychology face three long standing challenges: discovering the laws that govern concept learning and categorization behavior in organisms, showing how they inform other areas of cognitive research, and describing them with the mathematical systematicity and precision found in the physical sciences. In light of these theoretical and methodological shortcomings, this volume will introduce a set of general mathematical principles for predicting and explaining conceptual behavior.

The author's theory is based on new general formulations of seven fundamental constructs of universal science: invariance, complexity, information, similarity, dissimilarity, pattern, and representation. These constructs are unified by a novel mathematical framework that does not depend on probability theory. The framework also unifies key results from conceptual behavior research with results from other fundamental areas of cognitive research, such as pattern perception, similarity assessment, attention, and contextual choice. The result is a unique and systematic unifying foundation for cognitive science in the tradition of classical physics.

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