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Titolo	Decision Making and Modelling in Cognitive Science [[electronic resource] /] / by Sisir Roy
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Descrizione fisica	1 online resource (XV, 165 p. 2 illus. in color.)
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Various Approaches to Decision Making -- Chapter 3. Predictability of Brain, Decision making and Cognition -- Chapter 4. New Empirical Evidences on Decision making and Cognition -- Chapter 5. Fundamental Concepts of Mathematics and Quantum Formalism.-Chapter 6. Complementary Principle, Concept of Filter and Cognition Process -- Chapter 7.Quantum Probability Theory and Non-Boolean Logic -- Chapter 8. Quantum Ontology and Context Dependence -- Chapter 9. Modern Neuroscience and Quantum Logic -- Chapter 10. Future Directions of Modelling the uncertainty in Cognitive Domain.
Sommario/riassunto	This book discusses the paradigm of quantum ontology as an appropriate model for measuring cognitive processes. It clearly shows the inadequacy of the application of classical probability theory in modelling the human cognitive domain. The chapters investigate the context dependence and neuronal basis of cognition in a coherent manner. According to this framework, epistemological issues related to

decision making and state of mind are seen to be similar to issues related to equanimity and neutral mind, as discussed in Buddhist perspective. The author states that quantum ontology as a modelling tool will help scientists create new methodologies of modelling in other streams of science as well. .
