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Representation Problem and Two Aspects of Observation; 3. Spacetime Holism; 3.1. Ontology; 3.2. The Universe as one Spacetime Whole 3.3. Infinite Complexity and Self-Containment 3.4. Spacetime Structure and the Duality Relation; 3.4.1. Continuity and Discontinuity; 3.4.2. Levels of Description; 3.4.3. Non-locality and Locality; 3.4.4. The Duality Relation; 4. Spacetime Holism and Systems; 4.1. Self-Organization and Holism; 4.2. The System From the Viewpoint of Spacetime Holism; 4.3. Overlapping Systems; 5. The Cognitive Scenario; 6. Conclusions; References; 5. A Systems-Theoretical Generalization of Non-Local Correlations N. von Stillfried; 1. Introduction; 2. Non-local Correlations in Quantum Mechanics 3. Non-local Correlations as a General Systems-inherent Principle References; 6. Brain Time and Physical Time U. Fidelman; 1. Introduction: The Hemispheric Paradigm; 2. The Direction of Time; 3. The Direction of Brain Time; 4. The Multidimensionality of Time; 5. Physical Time and the Brain; 6. Further Temporal Dimensions; 7. Is There an Independent Physical Time?; References; Part II: Identifying Temporal Observer Perspectives; 7. Simultaneity in Emotional Moments G. L. Clore; 1. Introduction; 2. Emotions are Emergents; 3. Emotions as Meta-Experiences; 4. Mood Influences on Judgment 5. Mood Influences on Thought 6. Multiple Kinds of Good; 7. The Emergence of Depth in Vision; 8. Conclusion; Acknowledgement; References; 8. On Time Experience in Depression H. M. Emrich, C. Bonnemann and D. E. Dietrich; 1. Introduction: The Brain as a Time Machine; 2. Time and Affect: Something about Anxiety; 3. Internal Balance of Values; 4. Inner Time Consciousness in Depression; 5. System Theory and Forgetting; 6. Neurobiological Experience; 7. Creativity, Consciousness and Forgetting; References 9. Contextualization: Memory Formation and Retrieval in a Nested Environment M. Piefke and H. J. Markowitsch

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## Sommario/riassunto

This book presents an interdisciplinary approach to the question of how observer-participant perspectives are generated, what constrains them and how they may be modified. These questions are of vital importance and must be addressed in any discipline before formulating a hypothesis or designing a model about reality. Both epistemological questions about the nature of temporal nested structures and practical applications of our ability to contextualize are discussed. The resulting temporal observer-participant perspectives reflect approaches to the concept of simultaneity from the viewpoints

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