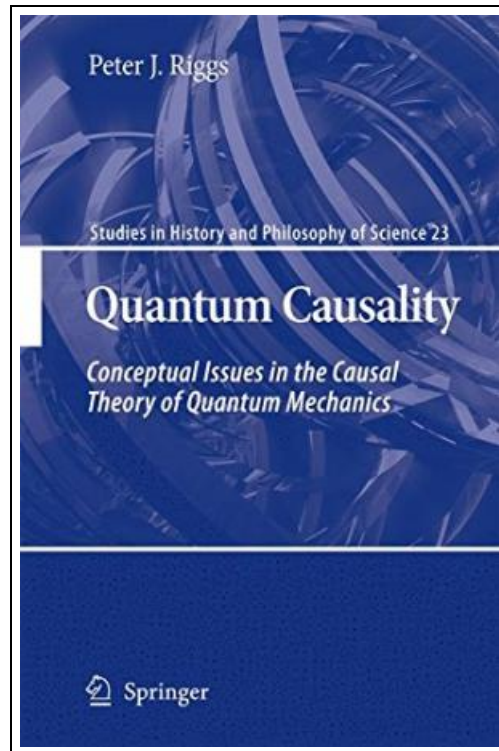


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QUANTUM CAUSALITY: CONCEPTUAL ISSUES IN THE CAUSAL THEORY OF QUANTUM MECHANICS

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Springer. Hardcover. Condition: New. 232 pages. Dimensions: 9.3in. x 6.4in. x 0.8in. This is a treatise devoted to the foundations of quantum physics and the role that causality plays in the microscopic world governed by the laws of quantum mechanics. There is no sharp dividing line between physics and philosophy of physics. This is especially true for quantum physics where debate on its interpretation and the status of the various entities postulated has raged in both the scientific and philosophical communities since the 1920s and continues to this day. Although it is readily granted that quantum mechanics produces some strange and counter-intuitive results, it is argued in Quantum Causality that quantum mechanics is not as weird as we might have been led to believe. The dominant theory of quantum mechanics is called Orthodox Quantum Theory (also known as the Copenhagen Interpretation). Orthodox Quantum Theory is a theoretical tool for making predictions for the possible results of experiments on quantum systems and requires the intervention of an observer or an observers proxy (e. g. a measuring apparatus) in order to produce predictions. Orthodox Quantum Theory does away with the notion of causality and denies the existence of an underlying quantum realm. If we are to explain physical reality, a better understanding of the foundations of quantum physics is needed than can be provided by Orthodox Quantum Theory. The way to achieve this understanding is to specify both the ontology and the laws that govern the quantum realm. (A theorys ontology is the set of assertions about the entities and processes that exist according to the theory.) The Causal Theory of Quantum Mechanics (also known as de Broglie-Bohm Theory) does this by describing micro-phenomena in terms of entities and processes in space and time, thereby embracing causality at the quantum level. Quantum...

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