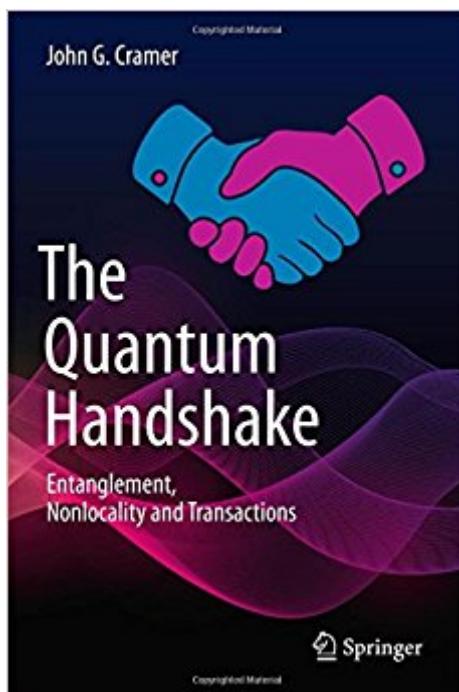


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The Quantum Handshake: Entanglement, Nonlocality And Transactions



Synopsis

This book shines bright light into the dim recesses of quantum theory, where the mysteries of entanglement, nonlocality, and wave collapse have motivated some to conjure up multiple universes, and others to adopt a "shut up and calculate" mentality. After an extensive and accessible introduction to quantum mechanics and its history, the author turns attention to his transactional model. Using a quantum handshake between normal and time-reversed waves, this model provides a clear visual picture explaining the baffling experimental results that flow daily from the quantum physics laboratories of the world. To demonstrate its powerful simplicity, the transactional model is applied to a collection of counter-intuitive experiments and conceptual problems.

Book Information

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Customer Reviews

John G. Cramer's book, "The Quantum Handshake," provides essential insights into how we might best interpret the mathematical equations of quantum physics. While the mathematical foundation of quantum physics is considered to be non-controversial and fundamentally sound, the interpretations of how and why quantum mechanics operates the way it does are bewilderingly numerous. Some of the most commonly discussed interpretations include: the orthodox Copenhagen Interpretation, several varieties of the Many Worlds Interpretation, the Holographic Interpretation, and John G. Cramer's Transactional Interpretation. The long-standing philosophical conundrum associated with quantum physics interpretations can be attributed to the difficulty of testing and verifying these interpretations. Put another way, while it is the job of the interpretations to describe the mathematical formalism of quantum physics, only the formalism--not the interpretations--makes

experimentally testable predictions. And adding to the confusion, as John Cramer so eloquently points out, is that "The major failings of many would-be interpretations of quantum mechanics are: (1) they confuse a cause with its effects (example: the knowledge interpretationâ™s assumption that changes in knowledge cause the wave function to change); (2) they confuse the map with the territory (example: Kastnerâ™s assumption in the Possibilist Transactional Interpretation that the wave function resides in the Hilbert-space map of correlations); and (3) they are designed to explain one particular problem while ignoring all others interpretational problems.

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