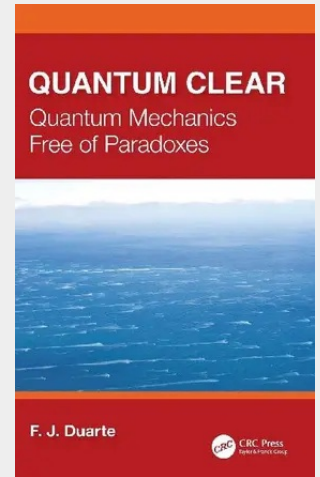


Duarte

Quantum Clear

Quantum Mechanics Free of Paradoxes

This book presents quantum mechanics from two of its most fundamental pillars, quantum interference and quantum entanglement. It also explains how to arrive at iconic principles, in a clear and transparent manner. Quantum Clear: Quantum Mechanics Free of Paradoxes offers a refreshing perspective on quantum mechanics. Unlike conventional approaches, this book illuminates iconic principles such as Born's rule with remarkable clarity and transparency. What sets it apart from typical quantum science books is its deliberate avoidance of sensationalized vocabulary like 'mystery,' 'strange,' 'weird,' or 'paradox' that often clouds understanding. Instead, readers embark on a journey beginning with a comprehensive historical introduction to quantum mechanics and its major developments. The author methodically dismantles common misconceptions, including: - Why the Einstein–Podolsky–Rosen (EPR) argument incorrectly labeled quantum mechanics as an 'incomplete' theory - The philosophical and physical foundations of quantum entanglement - Why the concept of 'wave function collapse' is unnecessary when properly observed from the physics of quantum interference and entanglement - How the so-called 'measurement problem' dissolves when viewed through interferometric and entanglement perspectives The book then transitions to practical applications, explaining quantum communications, computing, cryptography, engineering, and teleportation in accessible language. Readers will glimpse the emerging world where quantum mechanical concepts become integrated into everyday engineering solutions. Though scientifically rigorous, Quantum Clear speaks to both scientific and general audiences, systematically unraveling the misunderstandings that have surrounded quantum mechanics for decades—offering clarity where confusion once reigned.



Auf Anfrage

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