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The Physics of Quantum Mechanics

By James Binney, David Skinner

Oxford University Press. Paperback. Book Condition: new. BRAND NEW, The Physics of Quantum Mechanics, James Binney, David Skinner, The Physics of Quantum Mechanics aims to give students a good understanding of how quantum mechanics describes the material world. It shows that the theory follows naturally from the use of probability amplitudes to derive probabilities. It stresses that stationary states are unphysical mathematical abstractions that enable us to solve the theory's governing equation, the time-dependent Schrodinger equation. Every opportunity is taken to illustrate the emergence of the familiar classical, dynamical world through the quantum interference of stationary states. The text stresses the continuity between the quantum world and the classical world, which is merely an approximation to the quantum world. The connections between observables, operators and transformations are clearly explained and the standard commutation rules derived from the properties of spacetime. A chapter is devoted to entanglement, quantum computation, density operators and their role in thermodynamics, and the measurement problem. Scattering phenomena, including the origin of radioactivity, are handled early on in the accessible context of one dimension, and at the end of the book with some rigour in three dimensions. Hydrogen and helium are discussed in some detail and it...


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