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Lectures on Quantum Mechanics: Perturbed Evolution v. 3 (Paperback)

By Berthold-Georg Englert

World Scientific Publishing Co Pte Ltd, Singapore, 2006.
Paperback. Book Condition: New. 223 x 150 mm. Language: English . Brand New Book. Note: The three volumes are not sequential but rather independent of each other and largely self-contained. Basic Matters is a first introduction to quantum mechanics that does not assume any prior knowledge of the subject. The emphasis is on the general structure as the necessary foundation of any understanding. Starting from the simplest quantum phenomenon, the Stern-Gerlach experiment with its choice between two discrete outcomes, and ending with one-dimensional continuous systems, the physical concepts and notions as well as the mathematical formalism of quantum mechanics are developed in successive, manageable steps. The presentation is modern inasmuch as the natural language of the trade - Dirac's kets and bras and so on - is introduced early, and the temporal evolution is dealt with in a picture-free manner, with Schrodinger's and Heisenberg's equations of motion side by side and on equal footing. The reader of Simple Systems is not expected to be familiar with the material in Basic Matters, but should have the minimal knowledge of a standard brief introduction to quantum mechanics with its typical emphasis on one-dimensional...



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