



## The Picture Book of Quantum Mechanics 2012

By Siegmund Brandt, Hans Dieter Dahmen

Springer-Verlag New York Inc., United States, 2012. Paperback. Book Condition: New. 4th Revised edition. 235 x 155 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The aim of this book is to explain the basic concepts and phenomena of quantum mechanics by means of visualization. Computer-generated illustrations in color are used extensively throughout the text, helping to establish the relation between quantum mechanics-wave functions, interference, atomic structure, and so forth-and classical physics-point mechanics, statistical mechanics, and wave optics. Even more important, by studying the pictures in parallel with the text, readers develop an intuition for such notoriously abstract phenomena as the tunnel effect excitation and decay of metastable states wave-packet motion within a well systems of distinguishable and indistinguishable particles free wave packets and scattering in 3 dimensions angular-momentum decomposition stationary bound states in various 3-dimensional potentials hybrid states Kepler motion of wave packets in the Coulomb field spin and magnetic resonance Illustrations from experiments in a variety of fields, including chemistry, and molecular, atomic, nuclear, and particle physics, underline the basic as well as the practical importance of quantum mechanics. In the present, fourth edition all computer graphics are presented in full color. It also contains...



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