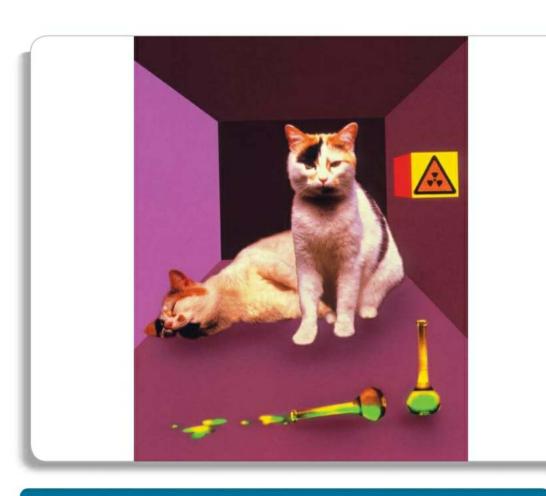
کے الدار^عی ارحم

Chapter 5: The Schrödinger Equation

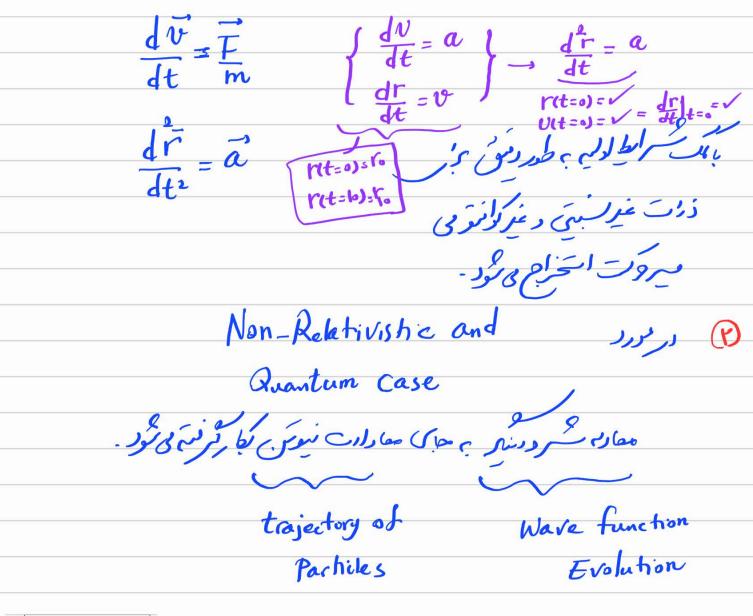
THE SCHRÖDINGER EQUATION

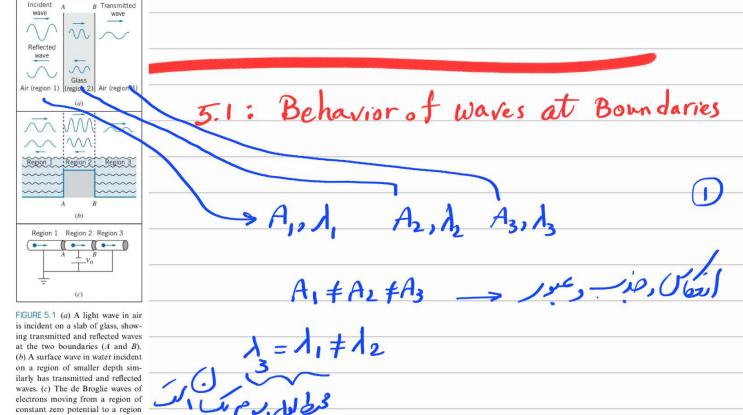


Quantum mechanics provides a mathematical framework in which the description of a process often includes different and possibly contradictory outcomes. A favorite illustration of that situation is the case of Schrödinger's cat. The cat is confined in a chamber with a radioactive atom, the decay of which will trigger the release of poison from a vial. Because we don't know exactly when that decay will occur, until an observation of the condition of the cat is made the quantum-mechanical description of the cat must include both "cat alive" and "cat dead" components. Mehau Kulyk / Science Source

Non-Relativistic and Non- Quantum Case

 $\vec{F} = \sum_{i=1}^{\infty} \vec{f_i} = m\vec{a}$





of constant negative potential V_0 also have transmitted and reflected

ا و فرکی ۵ مرج درم

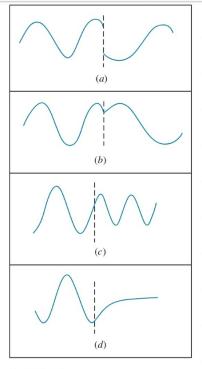


FIGURE 5.2 (a) A discontinuous wave. (b) A continuous wave with a discontinuous slope. (c) Two sine waves join smoothly. (d) A sine wave and an exponential join smoothly.