

Problems

Jose

The wave function of a particle in a box of length L is

$$\psi(x) = \sqrt{\frac{2}{L}} \sin\left(\frac{\pi x}{L}\right) \quad 0 < x < L \quad \text{and} \quad \psi(x) = 0 \quad x < 0 \text{ \& } x > L$$

Find the probability of finding the particle in the region $0 < x < L/2$

$$\text{Probability} = \int_{-\infty}^{\infty} \psi \psi^* dx$$

In this problem particle is confined within a box of L and we need to find the probability of finding the particle between $x = 0$ & $x = L/2$

$$\int_0^{L/2} \psi \psi^* dx = \int_0^{L/2} \sqrt{\frac{2}{L}} \sin\left(\frac{\pi x}{L}\right) \sqrt{\frac{2}{L}} \sin\left(\frac{\pi x}{L}\right) dx = \frac{2}{L} \int_0^{L/2} \sin^2\left(\frac{\pi x}{L}\right) dx$$

$$= \frac{2}{L} \int_0^{L/2} \frac{1 - \cos\left(\frac{2\pi x}{L}\right)}{2} dx = \frac{1}{L} \left\{ \frac{L}{2} - 0 \right\} = \frac{1}{2} = 0.5$$

Quantum Mechanics Problems And Solutions

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