





Chapter. 5 Bound States: Simple Case

- Case 1: Particles in a Box The Infinite Well
- Case 2: The Finite Well
- Case 3: The Simple Harmonic Oscillator
- Expectation Values, Uncertainties, and Operators

5.5 Case. I Particle in a Box: The Infinite Well

The situation in which the particle-confining U(x) allows the simplest solution of the time-independent Schrödinger equation is called "particle in a box", or "infinite well"

CM: simply bounce back & forth

QM: standing waves ← Schrödinger Eq.

Case I: Particle in a box – Infinite Potential well









