

Particle in a Finite Well (4)

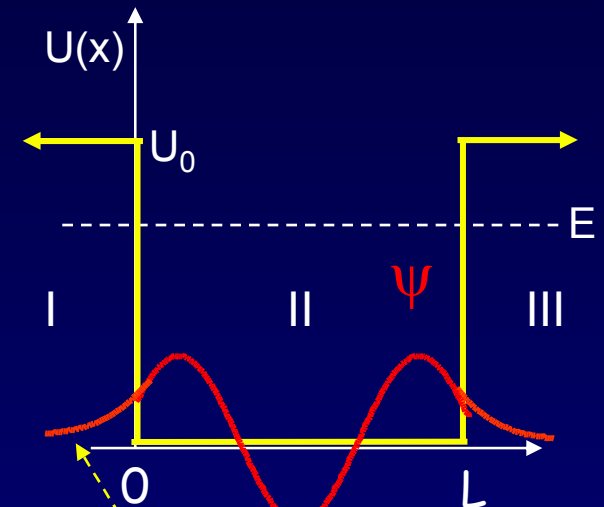
Summarizing the solutions in the 3 regions:

Region I: $\psi_I(x) = C_1 e^{Kx}$

Region II: $\psi_{II}(x) = B_1 \sin(kx) + B_2 \cos(kx)$

Region III: $\psi_{III}(x) = D_2 e^{-Kx}$

As with the infinite square well, to determine parameters (K , k , B_1 , B_2 , C_1 , and D_2) we must apply boundary conditions.



Useful to know:

In an allowed region,
 ψ curves toward 0.
In a forbidden region,
 ψ curves away from 0.