

 $P = \frac{maV_0b}{\hbar^2}; \alpha^2 = \frac{2mE}{\hbar^2}$   $P = \frac{maV_0b}{\hbar^2}; \alpha^2 = \frac{2mE}{\hbar^2}$ Large Potential Barrier strength  $\frac{d^2\psi(\vec{r})}{dx^2} + \frac{2m}{\hbar^2}E\psi(\vec{r}) = 0$ Allowed bands are narrow



