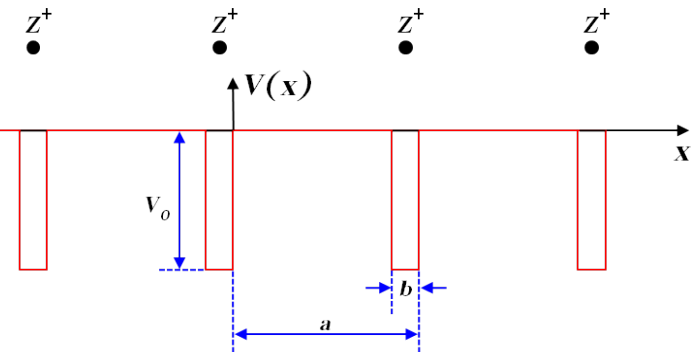
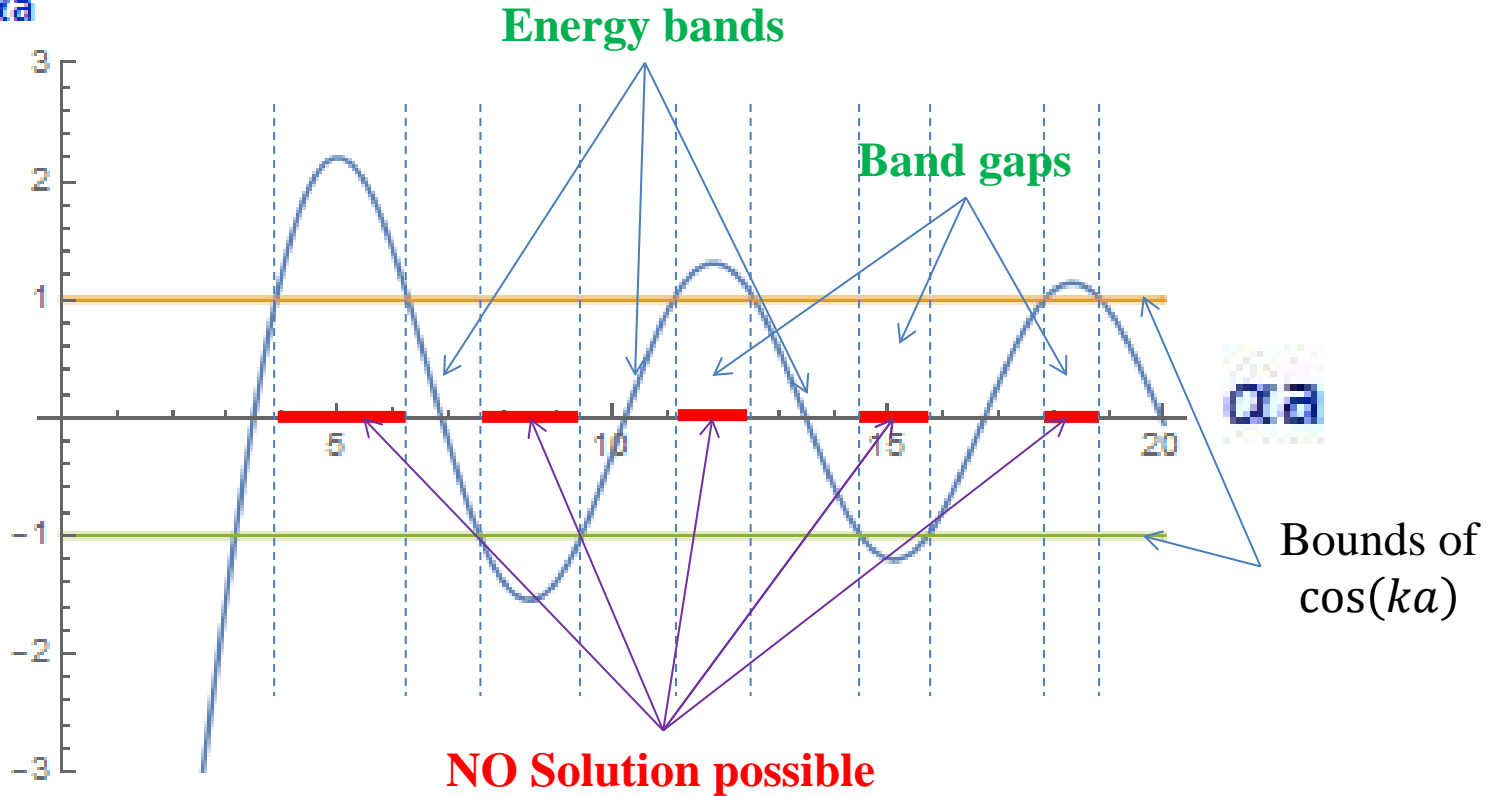


Kronig-Penney Model Solution

$$-P \frac{\sin[\alpha a]}{\alpha a} + \cos[\alpha a]$$

$$-P \frac{\sin[\alpha a]}{\alpha a} + \cos(\alpha a) = \cos(ka)$$



$$\alpha = \sqrt{\frac{2mE}{\hbar^2}}$$

$$\beta = \sqrt{\frac{2m(E + V_0)}{\hbar^2}}$$

$$P \equiv \frac{\beta^2 b a}{2}$$