

CHAPTER-7 HOMEWORK

Using example 7.1

$$\kappa = 8.875 \text{ nm}^{-1}$$

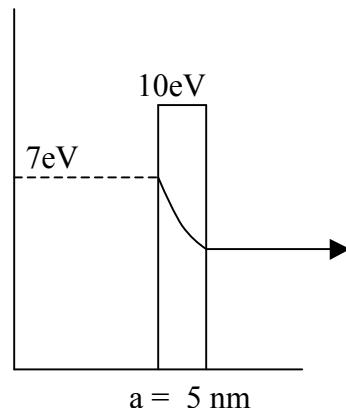
$$a = 5 \text{ nm}$$

$$\kappa a = 44.38$$

$$2\kappa a = 89$$

$$T = \exp\{-2 \kappa a\} = \exp\{-89\} = 2.2e-39$$

= transmission probability



$$a = 1 \text{ nm}$$

$$\kappa a = 8.88$$

$$2\kappa a = 17.8$$

$$T = \exp\{-2 \kappa a\} = \exp\{-17.8\} = 1.9e-8$$

= transmission probability