

CHAPTER-7 HOMEWORK

Using example 7.1

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

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

$$\kappa a = 44.38$$

$$2\kappa a = 89$$

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

= transmission probability

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

$$\kappa a = 8.88$$

$$2\kappa a = 17.8$$

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

= transmission probability

