CHAPTER-7 HOMEWORK

Using example 7.1

\[ \kappa = 8.875 \text{ nm}^{-1} \]

\[ a = 5\text{nm} \]
\[ \kappa a = 44.38 \]
\[ 2\kappa a = 89 \]
\[ T = \exp\{-2\kappa a\} = \exp\{-89\} = 2.2e^{-39} \]
\[ = \text{transmission probability} \]

\[ a = 1\text{nm} \]
\[ \kappa a = 8.88 \]
\[ 2\kappa a = 17.8 \]
\[ T = \exp\{-2\kappa a\} = \exp\{-17.8\} = 1.9e^{-8} \]
\[ = \text{transmission probability} \]