

Quiz 18

Monday, May 22, 2017 2:15 PM

a) Find the mobility of electrons in silicon if $\tau = 10^{-12} \text{ s}$
and $m_{\text{eff}} = m_e$ (1 decimal place accuracy is fine)

b) Find the resistivity of a metal in which $n_e = 3 \times 10^{28} \text{ m}^{-3}$
and $\tau = 10^{-14} \text{ s}$. Assume free electron behavior.
(1 decimal place accuracy is fine)