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1 (a)

$$n_i(T=300\text{K}) = 1.66 \cdot 10^{15} (300)^{3/2} \cdot \exp\left[\frac{-(0.66\text{eV})}{2(1.38 \cdot 10^{-23} \text{J/K})(300\text{K})}\right]$$

$$= 2.5 \cdot 10^{13} \text{ cm}^{-3}$$

$$n_i(T=600\text{K}) = 1.66 \cdot 10^{15} (600)^{3/2} \cdot \exp\left[\frac{-(0.66\text{eV})}{2(1.38 \cdot 10^{-23} \text{J/K})(600\text{K})}\right]$$

$$= 4.15 \cdot 10^{16} \text{ cm}^{-3}$$

Comparing these results with those in Example:

$$\frac{n_i(\text{Ge @ } 300\text{K})}{n_i(\text{Si @ } 300\text{K})} = 2315.$$

$$\frac{n_i(\text{Ge @ } 600\text{K})}{n_i(\text{Si @ } 600\text{K})} = 27.$$

At higher temperature, the exponential terms approaches one, which implies that $n_i \sim T^{3/2}$, independent of bandgap energy, E_g .

(b) For any doped material, $n \cdot p = n_i^2$. Assuming at $T=300\text{K}$,

$$p = 5 \cdot 10^{16} \text{ cm}^{-3}$$

$$n = [n_i(T=300\text{K})]^2 / p = \frac{(2.5 \cdot 10^{13} \text{ cm}^{-3})^2}{5 \cdot 10^{16} \text{ cm}^{-3}} = 1.25 \cdot 10^{10} \text{ cm}^{-3}$$

Razavi Third Edition Solution Manual

Didier Musso



Razavi Third Edition Solution Manual:

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