Chapter 1

Exercise Solutions

E1.1

$$n_i = BT^{3/2} \exp\left(-\frac{E_g}{2kT}\right)$$

GaAs :

$$n_i = (2.1 \times 10^{14})(300)^{3/2} \exp\left(\frac{-1.4}{2[86 \times 10^{-6}][300]}\right)$$

$$\underline{n_i = 1.8 \times 10^6 \quad cm^{-3}}$$

Ge :

$$n_i = (1.66 \times 10^{15})(300)^{3/2} \exp\left(\frac{-0.66}{2[86 \times 10^{-6}][300]}\right)$$

$$\underline{n_i = 2.40 \times 10^{13} \quad cm^{-3}}$$

E1.2

Si :

$$n_i = (5.23 \times 10^{15})(400)^{3/2} \exp\left(\frac{-1.1}{2[86 \times 10^{-6}][400]}\right)$$

$$\underline{n_i = 4.76 \times 10^{12} \quad cm^{-3}}$$

GaAs :

$$n_i = (2.1 \times 10^{14})(400)^{3/2} \exp\left(\frac{-1.4}{2[86 \times 10^{-6}][400]}\right)$$

$$\underline{n_i = 2.44 \times 10^9 \quad cm^{-3}}$$

Ge :

$$n_i = (1.66 \times 10^{15})(400)^{3/2} \exp\left(\frac{-0.66}{2[86 \times 10^{-6}][400]}\right)$$

$$\underline{n_i = 9.06 \times 10^{14} \quad cm^{-3}}$$

E1.3

a. majority carrier: $\underline{p_o = 10^{17} \quad cm^{-3}}$
   minority carrier:

$$n_o = \frac{n_i^2}{N_a} = \frac{(1.5 \times 10^{10})^2}{10^{17}} = 2.25 \times 10^3 \quad cm^{-3}$$

b. $n_o = N_d - N_a = 5 \times 10^{15}$

majority carrier: $\underline{n_o = 5 \times 10^{15} \quad cm^{-3}}$
minority carrier:

$$p_o = \frac{n_i^2}{n_o} = \frac{(1.5 \times 10^{10})^2}{5 \times 10^{15}} = 4.5 \times 10^4 \quad cm^{-3}$$

E1.4

(a) $n_o = 5 \times 10^{16} \, cm^{-3}$, $p_o \ll n_o$
$\sigma \cong e\mu_n n_o = (1.6 \times 10^{-19})(1350)(5 \times 10^{16}) \Rightarrow$
$\underline{\sigma = 10.8 \, (\Omega - cm)^{-1}}$

(b) $p_o = 5 \times 10^{16} \, cm^{-3}$, $n_o \ll p_o$
$\sigma \cong e\mu_p p_o = (1.6 \times 10^{-19})(480)(5 \times 10^{16}) \Rightarrow$
$\underline{\sigma = 3.84 \, (\Omega - cm)^{-1}}$

E1.5

a. $n_o = N_d = 8 \times 10^{15} \quad cm^{-3}$

$$p_o = \frac{n_i^2}{n_o} = \frac{(1.5 \times 10^{10})^2}{8 \times 10^{15}} \Rightarrow$$
$$p_o = 2.81 \times 10^4 \quad cm^{-3}$$

b. $n = n_o + \delta n = 8 \times 10^{15} + 0.1 \times 10^{15} \Rightarrow$

$$\underline{n = 8.1 \times 10^{15} \quad cm^{-3}}$$
$$p = p_o + \delta p \Rightarrow$$
$$\underline{p \cong 10^{14} \quad cm^{-3}}$$

E1.6

$$J = \sigma E = (10)(15) \Rightarrow$$
$$\underline{J = 150 A / cm^2}$$

E1.7

a. $V_{bi} = V_T \ln\left(\frac{N_a N_d}{n_i^2}\right)$

$$V_{bi} = (0.026) \ln\left[\frac{(10^{15})(10^{15})}{(1.5 \times 10^{10})^2}\right]$$
$$\underline{V_{bi} = 0.697 \, V}$$

b. $V_{bi} = (0.026) \ln\left[\frac{(10^{17})(10^{17})}{(1.5 \times 10^{10})^2}\right]$
$$\underline{V_{bi} = 0.817 \, V}$$

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