

## Chapter 1

### Exercise Solutions

#### EX1.1

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

Given:  $n_i = (2.1 \times 10^{12})(300)^{3/2} \exp\left(\frac{-1.4}{2(9.6 \times 10^{-3})(300)}\right)$  or  $n_i = 1.3 \times 10^{15} \text{ cm}^{-3}$

Given:  $n_i = (0.66 \times 10^{12})(300)^{3/2} \exp\left(\frac{-0.66}{2(9.6 \times 10^{-3})(300)}\right)$  or  $n_i = 2.40 \times 10^{15} \text{ cm}^{-3}$

#### EX1.2

(a) (i)  $n_s = N_d = 2 \times 10^{14} \text{ cm}^{-3}$

$$p_s = \frac{n_s^2}{n_i} = \frac{(0.5 \times 10^{14})^2}{2 \times 10^{14}} = 1.125 \times 10^{13} \text{ cm}^{-3}$$

(ii)  $p_s = N_n = 10^{17} \text{ cm}^{-3}$

$$n_s = \frac{n_i^2}{p_s} = \frac{(0.5 \times 10^{14})^2}{10^{17}} = 2.25 \times 10^7 \text{ cm}^{-3}$$

(iii) (i)  $n_s = N_d = 2 \times 10^{14} \text{ cm}^{-3}$

$$p_s = \frac{n_s^2}{n_i} = \frac{(0.8 \times 10^{14})^2}{2 \times 10^{14}} = 1.62 \times 10^{14} \text{ cm}^{-3}$$

(ii)  $p_s = N_n = 10^{17} \text{ cm}^{-3}$

$$n_s = \frac{n_i^2}{p_s} = \frac{(0.8 \times 10^{14})^2}{10^{17}} = 3.24 \times 10^{-1} \text{ cm}^{-3}$$

#### EX1.3

(a) For n-type:

$$\rho^2 = \frac{1}{e\mu_n N_d} = \frac{1}{(0.6 \times 10^{-3})(6800)(2 \times 10^{14})} = 0.046 \text{ ohm-cm}$$

$$(b) J = \frac{1}{\rho} \cdot E \Rightarrow E = \rho J = (0.046)(175) = 8.04 \text{ V/cm}$$

#### EX1.4

Diffusion current density due to holes:

$$J_p = -eD_p \frac{dp}{dx} = -eD_p (10^{12}) \left(\frac{-1}{E_p}\right) \exp\left(\frac{-x}{E_p}\right)$$

# Microelectronics Solution Manual 4th Neamen

**Donald A. Neamen**

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