Chapter 1

Exercise Solutions

IEX.L.II

$$n_i = BT^{4/3} \exp\left(\frac{-K_s}{2kT}\right)$$
 $O = M_s = (2.1 \times 10^{14})(300)^{3/2} \exp\left(\frac{-1.4}{2(86 \times 10^{16})(300)}\right) \exp\left(\frac{-1.8 \times 10^{16} \text{ cm}^{-1}}{2(86 \times 10^{16})(300)}\right) \exp\left(\frac{-0.66}{2(86 \times 10^{16})(300)}\right)$

HIXTL2

(8) (i)
$$n_a = N_d = 2 \times 10^{34} \text{ cm}^{-3}$$

$$\rho_a = \frac{n_c^2}{n_a} = \frac{(1.5 \times 10^{18})^2}{2 \times 10^{34}} = 1.125 \times 10^4 \text{ cm}^{-3}$$
(ii) $\rho_a = N_a = 10^{33} \text{ cm}^{-3}$

$$n_a = \frac{n_c^2}{\rho_a} = \frac{(0.5 \times 10^{18})^2}{10^{33}} = 2.25 \times 10^3 \text{ cm}^{-3}$$
(8) (i) $n_a = N_d = 2 \times 10^{34} \text{ cm}^{-3}$

$$\rho_a = \frac{n_c^2}{n_a} = \frac{(1.8 \times 10^4)^2}{2 \times 10^{34}} = 1.62 \times 10^{-4} \text{ cm}^{-3}$$

(ii)
$$p_x = N_x = 10^{11}$$
 cm $^{-3}$
 $n_x = \frac{n_x^2}{P_x} = \frac{(1.8 \times 10^+)^2}{10^{12}} = 3.24 \times 10^{-6}$ cm $^{-6}$

FIX 1.3

(a) For n-type,

$$\rho = \frac{1}{e\mu_e N_d} = \frac{1}{(1.6 \times 10^{-19})(6800)(2 \times 10^{14})} = 0.046 \text{ ohm-cm}.$$
(b) $J = \frac{1}{\rho} E \Rightarrow E = \rho J = (0.046)(175) = 8.04 \text{ V/cm}.$

EXIL4

Diffusion current density due to holes:

$$J_{\mu} = -eD_{\mu} \frac{dp}{dx}$$

= $-eD_{\mu} \left(10^{-1}\right) \left(\frac{-1}{L_{\mu}}\right) \exp\left(\frac{-x}{L_{\mu}}\right)$

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DONALD A. NEAMEN

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