Chapter 1

Exercise Solutions

IEX.L.II

$$n_i = BT^{4/2} \exp\left(\frac{-K_s}{2kT}\right)$$
 $O = A_i = (2.1 \times 10^{14})(300)^{3/2} \exp\left(\frac{-1.4}{2(86 \times 10^{16})(300)}\right) = n_i = 1.8 \times 10^{16} cm^{-1}$
 $O = n_i = (1.66 \times 10^{13})(300)^{3/2} \exp\left(\frac{-0.66}{2(86 \times 10^{14})(300)}\right) = n_i = 2.40 \times 10^{16} cm^{-1}$

HIXTL2

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

 $p_a = \frac{n_c^2}{n_a} = \frac{(1.5 \times 10^{10})^2}{2 \times 10^{34}} = 1.125 \times 10^4 \text{ cm}^{-3}$
(a) $p_a = N_a = 10^{33} \text{ cm}^{-3}$
 $n_a = \frac{n_c^2}{p_a} = \frac{(1.5 \times 10^{10})^2}{10^{33}} = 2.25 \times 10^3 \text{ cm}^{-3}$
(b) (i) $n_a = N_d = 2 \times 10^{34} \text{ cm}^{-3}$
 $p_a = \frac{n_c^2}{n_a} = \frac{(1.8 \times 10^4)^2}{2 \times 10^{34}} = 1.62 \times 10^{-4} \text{ cm}^{-3}$
(ii) $p_a = N_d = 10^{23} \text{ cm}^{-3}$

 $n_s = \frac{n_s^2}{n_s} = \frac{(1.8 \times 10^4)^2}{10^{15}} = 3.24 \times 10^{-3} \text{ cm}^{-3}$

(a) For n-type,

$$\rho = \frac{1}{e\mu_e N_d} = \frac{1}{(1.6 \times 10^{-18}) 6800 (2 \times 10^{14})} = 0.046 \text{ ohm-cm}.$$
(b) $J = \frac{1}{\rho} E \Rightarrow E = \rho J = (0.046)(175) = 3.04 \text{ V/cm}.$

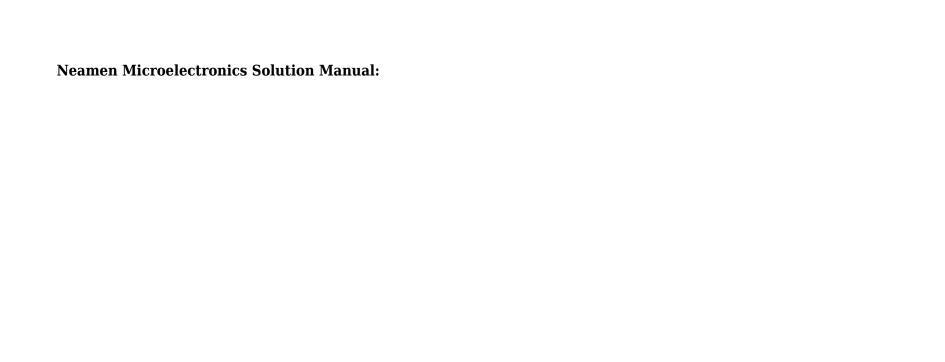
EXIL4

Diffusion current density due to holes:

$$\begin{split} J_{\sigma} &= -eD_{\sigma} \frac{dp}{dx} \\ &= -eD_{\sigma} \left(10^{cs}\right) \left(\frac{-1}{L_{\sigma}}\right) \exp\left(\frac{-x}{L_{\sigma}}\right) \end{split}$$

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Ying-Ying Zheng



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