$$= \frac{0.55}{(16)^2}(13.6) \Rightarrow E = 0.029 \ eV$$

4.17

We have
$$\frac{r_i}{\alpha_o} = \epsilon_i \left(\frac{m_o}{m_i} \right)$$

For GaAs, $e_i = 13.1$, $m' = 0.067m_{\odot}$

$$r_i = (13.1) \left(\frac{1}{0.067} \right) (0.53)$$

or

$$r_i = 104$$
 Å

$$E = \left(\frac{m'}{m_0}\right)\left(\frac{e_o}{e_s}\right)^2(13.6) = \frac{0.067}{(13.1)^2}(13.6)$$

OUT

$$E = 0.0053 \, eV$$

(a)
$$p_{ci} = \frac{n_i^2}{n_{ci}} = \frac{\left(1.5 \times 10^{10}\right)^2}{5 \times 10^4} \Longrightarrow$$

$$\frac{p_o = 4.5 \times 10^{11} \text{ cm}^{-3}}{\text{(b)}} , \quad p_o > n_o \Longrightarrow \text{ p-type}$$

$$E_{x_1} - E_{x_2} = kT \ln \left(\frac{P_{x_2}}{n_z} \right)$$

= (0.0259) $\ln \left(\frac{4.5 \times 10^{11}}{1.5 \times 10^{11}} \right)$

$$E_{\pi}-E_{\sigma}=0.3266~eV$$

4.19

$$p_o = N_v \exp \left[\frac{-(E_v - E_v)}{kT} \right]$$

= 1.04x10⁻¹ exp $\left(\frac{-0.22}{0.0259} \right)$

$$p_{\alpha} = 2.13 \times 10^{21} \text{ cm}^{-1}$$

$$E_c - E_x = 1.12 - 0.22 = 0.90 \text{ eV}$$

Then.

$$n_{\phi} = N_{c} \exp \left[\frac{-(E_{c} - E_{r})}{kT} \right]$$

$$= 2.8 \times 10^{-10} \exp \left(\frac{-0.90}{0.0259} \right)$$

$$n_{ci} = 2.27 \times 10^4 \text{ cm}^{-1}$$

(a)
$$T = 400K \implies kT = 0.03453 \text{ eV}$$

$$N_c = 4.7 \times 10^{11} \left(\frac{400}{300} \right)^{0.5} = 7.24 \times 10^{11} \text{ cm}^{-0}$$

$$n_0 = N_c \exp \left[\frac{-(E_c - E_x)}{kT} \right]$$

= 7.24×10¹¹ exp $\left(\frac{-0.25}{0.03453} \right)$

$$a_o = 5.19 \times 10^{10} \text{ cm}^{-1}$$
Also

$$N_r = 7\pi 10^{19} \left(\frac{400}{300}\right)^{12} = 1.08 \times 10^{19} \text{ cm}^{-1}$$

$$E_{_T} - E_{_T} = 1.42 - 0.25 = 1.17 \text{ eV}$$

$$p_o = 1.08 \times 10^{10} \exp \left(\frac{-1.17}{0.03453} \right)$$

$$p_{o} = 2.08x10^{4} \text{ cm}^{-1}$$

$$E_r - E_r = kT \ln \left(\frac{N_c}{n_o} \right)$$

= $(0.0259) \ln \left(\frac{4.7 \times 10^{10}}{5.19 \times 10^{10}} \right)$

or
$$E_c - E_s = 0.176 \text{ eV}$$

$$E_{\nu} - E_{\nu} = 1.42 - 0.176 = 1.244 \text{ eV}$$

$$p_o = (7x10^m) \exp\left(\frac{-1.244}{0.0259}\right)$$

or
$$p_{cr} = 9.67 \times 10^{-6} \text{ cm}^{-1}$$

Neamen Introduction To Semiconductor Devices Solution Manual

Robert F. Pierret

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