

Then

$$g_v(1 - f_v) = \sqrt{x} \exp\left(\frac{-x}{kT}\right)$$

To find the maximum value

$$\frac{d[g_v(1 - f_v)]}{dx} = \frac{d}{dx} \left[\sqrt{x} \exp\left(\frac{-x}{kT}\right) \right] = 0$$

Same as part (a). Maximum occurs at

$$x = \frac{kT}{2} = E_v - E$$

or

$$E = E_v - \frac{kT}{2}$$

4.6

$$\frac{n(E_1)}{n(E_2)} = \frac{\sqrt{E_1 - E_c} \exp\left[\frac{-(E_1 - E_c)}{kT}\right]}{\sqrt{E_2 - E_c} \exp\left[\frac{-(E_2 - E_c)}{kT}\right]}$$

where

$$E_1 = E_c + 4kT \quad \text{and} \quad E_2 = E_c + \frac{kT}{2}$$

Then

$$\begin{aligned} \frac{n(E_1)}{n(E_2)} &= \frac{\sqrt{4kT}}{\sqrt{\frac{kT}{2}}} \exp\left[\frac{-(E_1 - E_2)}{kT}\right] \\ &= 2\sqrt{2} \exp\left[-\left(4 - \frac{1}{2}\right)\right] = 2\sqrt{2} \exp(-3.5) \end{aligned}$$

or

$$\frac{n(E_1)}{n(E_2)} = 0.0854$$

4.7

Computer Plot

4.8

$$\frac{n_i^2(A)}{n_i^2(B)} = \frac{\exp\left(\frac{-E_{gA}}{kT}\right)}{\exp\left(\frac{-E_{gB}}{kT}\right)} = \exp\left[\frac{-(E_{gA} - E_{gB})}{kT}\right]$$

or

$$\frac{n_i(A)}{n_i(B)} = \exp\left[\frac{-(E_{gA} - E_{gB})}{2kT}\right]$$

$$= \exp\left[\frac{-(1 - 1.2)}{2(0.0259)}\right] = \exp\left[\frac{+0.20}{2(0.0259)}\right]$$

or

$$\frac{n_i(A)}{n_i(B)} = 47.5$$

4.9

Computer Plot

4.10

$$E_{F1} - E_{F2} = \frac{3}{4} kT \ln\left(\frac{m_c^*}{m_v^*}\right)$$

Silicon: $m_c^* = 0.56m_0$, $m_v^* = 1.08m_0$

$$E_{F1} - E_{F2} = -0.0128 \text{ eV}$$

Germanium: $m_c^* = 0.37m_0$, $m_v^* = 0.55m_0$

$$E_{F1} - E_{F2} = -0.0077 \text{ eV}$$

Gallium Arsenide: $m_c^* = 0.48m_0$, $m_v^* = 0.067m_0$

$$E_{F1} - E_{F2} = +0.038 \text{ eV}$$

4.11

$$(a) \quad E_{F1} - E_{F2} = \frac{3}{4} kT \ln\left(\frac{m_c^*}{m_v^*}\right)$$

$$= \frac{3}{4} (0.0259) \ln\left(\frac{1.4}{0.62}\right) \Rightarrow$$

$$E_{F1} - E_{F2} = +0.0158 \text{ eV}$$

(b)

$$E_{F1} - E_{F2} = \frac{3}{4} (0.0259) \ln\left(\frac{0.25}{1.10}\right) \Rightarrow$$

$$E_{F1} - E_{F2} = -0.0288 \text{ eV}$$

4.12

$$E_{F1} - E_{F2} = \frac{1}{2} (kT) \ln\left(\frac{N_c}{N_v}\right)$$

$$= \frac{1}{2} (kT) \ln\left(\frac{1.04 \times 10^{19}}{2.8 \times 10^{18}}\right) = -0.495(kT)$$

Introduction To Semiconductor Devices Neamen Solution Manual

Chao Zhang



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web about harold harold shank currently works as a consultant with faith based organizations he provides services including writing bible study material offering support for those working with troubled children and families and helping christian leaders around the globe to obtain advanced educational degrees in the us

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