

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

$$\frac{n_v^i(A)}{n_v^i(B)} = \frac{\exp\left(\frac{-E_{gv}}{kT}\right)}{\exp\left(\frac{-E_{gv}}{kT}\right)} = \exp\left[\frac{-(E_{gv} - E_{gv})}{kT}\right]$$

or

$$\frac{n_v(A)}{n_v(B)} = \exp\left[\frac{-(E_{gv} - E_{gv})}{2kT}\right]$$

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

or

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


---

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 Solutions Manual

**S Baum**



## **Introduction To Semiconductor Devices Neamen Solutions Manual:**

## **Introduction To Semiconductor Devices Neamen Solutions Manual** Book Review: Unveiling the Power of Words

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web a food chain outlines who eats whom a food web is all of the food chains in an ecosystem each organism in an ecosystem occupies a specific trophic level or position in the food chain or web producers who make their own food using

photosynthesis or chemosynthesis make up the bottom of the trophic pyramid

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web sep 10 2023 it has nutritional bilateral and interaction with the ecosystem's biotic components the limbs of a food chain are plants and animals that are successively dependent on one another it has three to four trophic levels the highest level is 5 shorter food chains mean more available energy and vice versa

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web in ecology a food chain is a series of organisms that eat one another so that energy and nutrients flow from one to the next for example if you had a hamburger for lunch you might be part of a food chain that looks like this grass → cow → human

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web a food chain describes how different organisms eat each other starting out with a plant and ending with an animal for example you could write the food chain for a lion like this grass zebra lion the lion eats the zebra which

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web food chain is a linear sequence of organisms which starts from producer organisms and ends with decomposer species

food web is a connection of multiple food chains food chain follows a single path whereas food web follows multiple paths

from the food chain we get to know how organisms are connected with each other

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