

14.1

$$\lambda_{\text{max}} = \frac{1.24}{E_e} \mu\text{m}$$

$$(a) \text{ Si: } \lambda_{\text{max}} = \frac{1.24}{1.12} = 1.11 \mu\text{m}$$

$$(b) \text{ Ge: } \lambda_{\text{max}} = \frac{1.24}{0.66} = 1.88 \mu\text{m}$$

$$(c) \text{ GaAs: } \lambda_{\text{max}} = \frac{1.24}{1.42} = 0.873 \mu\text{m}$$

$$(d) \text{ InP: } \lambda_{\text{max}} = \frac{1.24}{1.35} = 0.919 \mu\text{m}$$

14.2

(a) For $\lambda = 480 \text{ nm}$,

$$E = \frac{1.24}{\lambda} = \frac{1.24}{0.480} = 2.58 \text{ eV}$$

For $\lambda = 725 \text{ nm}$,

$$E = \frac{1.24}{0.725} = 1.71 \text{ eV}$$

(b) For $E = 0.87 \text{ eV}$,

$$\lambda = \frac{1.24}{E} = \frac{1.24}{0.87} = 1.43 \mu\text{m}$$

For $E = 1.32 \text{ eV}$,

$$\lambda = \frac{1.24}{1.32} = 0.939 \mu\text{m}$$

For $E = 1.90 \text{ eV}$,

$$\lambda = \frac{1.24}{1.90} = 0.653 \mu\text{m}$$

14.3

$$(a) \lambda = \frac{1.24}{1.65} = 0.752 \mu\text{m}$$

(b) From Figure 14.4, $\alpha = 9 \times 10^3 \text{ cm}^{-1}$

$$(a) \frac{I_p(d)}{I_{p0}} = \exp(-\alpha d)$$

$$= \exp[-(9 \times 10^3)(1.2 \times 10^{-4})]$$

$$= 0.340$$

Fraction absorbed = $1 - 0.34 = 0.66$

$$(b) \lambda = \frac{1.24}{1.90} = 0.653 \mu\text{m}$$

(c) From Figure 14.4, $\alpha = 2.6 \times 10^4 \text{ cm}^{-1}$

$$(a) \frac{I_p(d)}{I_{p0}} = \exp(-\alpha d)$$

$$= \exp[-(2.6 \times 10^4)(0.80 \times 10^{-4})]$$

$$= 0.125$$

Fraction absorbed
= $1 - 0.125 = 0.875$

14.4

$$g' = \frac{\alpha I(x)}{h\nu}$$

For $h\nu = 1.3 \text{ eV}$, $\lambda = \frac{1.24}{1.3} = 0.95 \mu\text{m}$ For silicon, $\alpha = 3 \times 10^3 \text{ cm}^{-1}$ Then for $I(x) = 10^{-2} \text{ W/cm}^2$, we obtain

$$g' = \frac{(3 \times 10^3)(10^{-2})}{(1.6 \times 10^{-19})(1.3)}$$

 α

$$g' = 1.44 \times 10^{19} \text{ cm}^{-3} \text{ s}^{-1}$$

The excess concentration is

$$\delta n = g' \tau = (1.44 \times 10^{19})(10^{-6})$$

 α

$$\delta n = 1.44 \times 10^{13} \text{ cm}^{-3}$$

14.5

$$(a) \Phi_p = g' \tau_{p0} \Rightarrow g' = \frac{\Phi_p}{\tau_{p0}}$$

$$g' = \frac{5 \times 10^{21}}{2 \times 10^{-7}} = 2.5 \times 10^{28} \text{ cm}^{-3} \text{ s}^{-1}$$

For $h\nu = 1.65 \text{ eV}$,

$$\Rightarrow \lambda = \frac{1.24}{1.65} = 0.752 \mu\text{m}$$

From Figure 14.4, $\alpha = 9 \times 10^3 \text{ cm}^{-1}$

$$I_{p0} = \frac{g' (h\nu)}{\alpha}$$

$$= \frac{(2.5 \times 10^{28})(1.6 \times 10^{-19})(1.65)}{9 \times 10^3}$$

Physical Chemistry Prob Sol

WJ Hussar



Physical Chemistry Prob Sol:

Physical Chemistry Prob Sol Book Review: Unveiling the Magic of Language

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