

Fabrication Engineering at the Micro and Nanoscale
S. A. Campbell
Solutions Manual Version 1.1b – Third Edition

2.1) The nearest neighbor Ga atoms are at $(-a/4, a/4, -a/4)$, $(-a/4, -a/4, a/4)$, $(a/4, -a/4, -a/4)$, and $(a/4, a/4, a/4)$.

The distance $3^{1/2} a/4 = 0.254 \text{ nm}$.

The ionic lengths are given as $r_{\text{Ga}}^{+1} \sim 0.081 \text{ nm}$ and $r_{\text{As}}^{-3} \sim 0.22 \text{ nm}$. Then the sum of the ionic distances is slightly larger than the a spacing in the crystal.

2.2) For the Ga atom at $(a/4, a/4, a/4)$, the four nearest neighbors are at: $(0, 0, 0)$, $(a/2, a/2, 0)$, $(a/2, 0, a/2)$ and $(0, a/2, a/2)$. They are the As atoms on the faces of the unit cell.

2.3a) Referring to the phase diagram for GeSi, at 1100°C , the equilibrium concentration in the melt is given as 15%.

b) The entire charge melts at 1190°C .

c) If the material is in equilibrium, about 50% of the solid is silicon.

2.4) According to the phase diagram for GaAs, and excess Ga will tend to precipitate out as a liquid (pure Ga) if the temperature is above 29.8°C . Since typical growth temperatures are much higher than this, droplets will form on the surface. When the material is then lowered to room temperature, these droplets should be slowly absorbed back into the stoichiometric GaAs where they solidify.

2.5) Solid solubility is an equilibrium value. It is possible, and in fact is often desirable, to incorporate an impurity concentration well above the solid solubility. Such a mixture will tend to precipitate over time, but at room temperature the time scales involved may be so long as to preclude any detectable amount of precipitation.

2.6 According to Equation 2.1,

$$N_V^+ = 5 * 10^{22} \text{ cm}^{-3} e^{-2.6 \text{ eV} / kT} = 2 * 10^{10} \text{ cm}^{-3}$$

Then

$$\frac{2.6 \text{ eV}}{kT} = \ln \frac{5 * 10^{22}}{2 * 10^{10}} = 28.5$$

Solving

$$T = \frac{2.6 \text{ eV}}{28.5 * 8.62 * 10^{-5} \text{ eV} / K} = 1058 \text{ K} = 785^\circ\text{C}$$

One can use this temperature to solve the problem as

$$N_V^+ = 2 * 10^{10} \text{ cm}^{-3} \frac{p}{n_i} e^{(E_F - E_i) / kT}$$

From Fig 3.4, $n_i = 2 * 10^{18} \text{ cm}^{-3}$. Since $N_{\text{Donor}} \ll n_i$, $p \approx n_i$. Then

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