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$$\begin{aligned} \text{TYU1.16 } V_z &= V_{z0} + I_z r_z \Rightarrow V_{z0} = V_z - I_z r_z \\ \text{so } V_{z0} &= 5.20 - (10^{-3}) (20) = \\ &5.18 \text{ V} \end{aligned}$$

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$$\begin{aligned} (a) \quad n_i &= (1.66 \times 10^{15}) (100)^{3/2} \left[ \frac{1}{1 - 0.66} \right] \\ &= (1.66 \times 10^{18}) \exp[-38.37] \\ &= \exp[-6] \left[ \frac{1}{2} (86 \times 10) (100) \right] n_i = \\ &35.9 \text{ cm}^{-3} \end{aligned} \quad (b) \quad n_i = (1.66 \times 10^{15}) (300)$$

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$$\begin{aligned} & \left( \frac{3}{2} \left[ \frac{1}{2} - 0.66 \right] \right) = (8.626 \times 10^{18}) \exp \\ & \left[ -12.79 \right] \exp \left[ -6 \right] \left[ \frac{2 (86 \times 10)}{(300)} \right] \\ & \left[ \frac{1}{2} \right] n_i = 2.40 \times 10^{13} \text{ cm}^{-3} \quad (c) \quad n_i = \\ & (1.66 \times 10^{15}) (500) \left( \frac{3}{2} \left[ \frac{1}{2} - 0.66 \right] \right) = \\ & (1.856 \times 10^{19}) \exp \left[ -7.674 \right] \exp \left[ -6 \right] \\ & \left[ \frac{2 (86 \times 10)}{(500)} \right] \left[ \frac{1}{2} \right] n_i = 8.62 \\ & \times 10^{15} \text{ cm}^{-3} \dots \end{aligned}$$

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Chapter 1 3 Problem Solutions 1.1 (a)

fcc: 8 corner atoms  $\times 1/8 = 1$  atom 6

face atoms  $\times 1/2 = 3$  atoms Total of 4

atoms per unit cell (b) bcc: 8 corner

atoms  $\times 1/8 = 1$  atom 1 enclosed atom

= 1 atom Total of 2 atoms ...

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$P_Z (\text{max}) = 400 \text{ mW} \Rightarrow I_Z (\text{max}) = \Rightarrow I$   
 $L (\text{min}) = I_I - I_Z (\text{max}) = 45 - 40 \Rightarrow I$   
 $L (\text{min}) = 5 \text{ mA} = 400 = 40 \text{ mA} \cdot 10 \cdot 10$   
 $R_L \Rightarrow R_L = 2 \text{ k}\Omega \text{ (c) } I = 57.1 \text{ mA} \mid L =$   
 $26.3 \text{ mA}$  For  $R_i = 175 \Omega \mid I \mid Z = 30.8 \text{ mA} \mid$   
 $Z (\text{max}) = 40 \text{ mA} \Rightarrow I \mid L (\text{min}) = 57.1 -$   
 $40 = 17.1 \text{ mA} \mid R_L = 10 \Rightarrow R_L = 585 \Omega \mid 17.1$

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Chapter 1 Exercise Solutions EX1.1 3/ 2

$\exp \left( \frac{E_g}{kT} \right) = \left( \frac{N_A}{N_D} \right) \left( \frac{N_A}{N_D} \right) \left( \frac{N_A}{N_D} \right)$  GaAs:

$(10^{14})^3 / (10^{16})^2 = 10^{-2}$  or  $0.01$

$1.8 \times 10^{10} \text{ cm}^{-3} = 10^{14} \times 10^{14} \times 10^{14} \times 10^{-2}$

$1.8 \times 10^{10} \text{ cm}^{-3} = 10^{14} \times 10^{14} \times 10^{14} \times 10^{-2}$

$10^{14} \times 10^{14} \times 10^{14} \times 10^{-2} = 10^{36} \times 10^{-2} = 10^{34}$

$10^{34} \times 10^{-2} = 10^{32}$  or  $10^{32} \text{ cm}^{-3}$

$10^{32} \text{ cm}^{-3} = 10^{32} \text{ cm}^{-3}$  EX1.2 (a) (i ...

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of semiconductor materials and devices. The goal of this book is to bring together quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device physics in a clear and understandable way.

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