

# Solution Manual for Modern Semiconductor Devices for Integrated Circuits Chenming C. Hu

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## Chapter 1

### *Visualization of the Silicon Crystal*

- 1.1 (a) Please refer to Figure 1-2. The 8 corner atoms are shared by 8 unit cells and therefore contribute 1 atom. Similarly, the 6 face atoms are each shared by 2 unit cells and contribute 3 atoms. And, 4 atoms are located inside the unit cell. Hence, there are total 8 silicon atoms in each unit cell.

- (b) The volume of the unit cell is

$$V_{\text{unit cell}} = (5.43 \text{ \AA})^3 = (5.43 \times 10^{-8} \text{ cm})^3 = 1.60 \times 10^{-22} \text{ cm}^3,$$

and one unit cell contains 8 silicon atoms. The atomic density of silicon is

$$N_{\text{Si}} = \frac{8 \text{ silicon atoms}}{V_{\text{unit cell}}} = 5.00 \times 10^{22} \text{ (silicon atoms) cm}^{-3}.$$

Hence, there are  $5.00 \times 10^{22}$  silicon atoms in one cubic centimeter.

- (c) In order to find the density of silicon, we need to calculate how heavy an individual silicon atom is

$$\text{Mass}_{\text{1 Si atom}} = \frac{28.1 \text{ (g/mole)}}{6.02 \times 10^{23} \text{ (atoms/mole)}} = 4.67 \times 10^{-23} \text{ (g/atom)}.$$

Therefore, the density of silicon ( $\rho_{\text{Si}}$ ) in  $\text{g/cm}^3$  is

$$\rho_{\text{Si}} = N_{\text{Si}} \times \text{Mass}_{\text{1 Si atom}} = 2.33 \text{ g/cm}^3.$$

### *Fermi Function*

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