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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 per unit cell (c) Diamond: 8 corner atoms $\times 1/8 = 1$ atom 6 face

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From $E_c - E_F = kT \ln [NC / (ND - NA)]$ which can be rewritten as $ND - NA = NC \exp [-(E_c - E_F) / kT]$ Then $ND - NA = 2.86 \times 10^{19} \exp(-0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$ or $ND = 1.26 \times 10^{16} + NA = 2.26 \times 10^{16} \text{ cm}^{-3}$ A compensated semiconductor can be fabricated to provide a specific Fermi energy level.

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