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From $E_c - E_F = kT \ln [N_C / (N_D - N_A)]$
which can be rewritten as $N_D - N_A = N_C$

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$\exp [-(E_C - E_F) / kT]$ Then $N_D - N_A = 2.86 \times 10^{19} \exp (-0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$ or $N_D = 1.26 \times 10^{16} + N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$ A compensated semiconductor can be fabricated to provide a specific Fermi energy level. 15.

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$E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165 \text{ eV}$ so $E_g =$

1.87 eV (c) $2kT < kT_a < 3kT$ 1st point: $T_a =$

$2.54T$ 2nd point: $T_a = 3T$ Then $E_g =$

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9.704 eV $E_6 = 13.537$ so $\Delta E = 3.83$ eV (d)
 $3\pi < ka < 4\pi$ 1st point: $\Delta a = 3.44$ 2nd
point: $\Delta a = 4$ Then $E_7 = 17.799$ eV $E_8 =$
 24.066 eV so $\Delta E = 6.27$ eV 3.10 $6 \sin \cos$
 $\cos \Delta \Delta \Delta a a + a = ka$ Forbidden energy
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3.1 If α_0 were to increase, the bandgap
energy would decrease and the material
would begin to behave less like a
semiconductor and more like a metal. If a

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o were to decrease, the bandgap energy would increase and the material would begin to behave more like an insulator. 3.2 wave equation is: $\nabla^2 \psi + (2m(E - V)/\hbar^2) \psi = 0$
Assume the solution is of the form: $\psi = e^{j(kx - \omega t)}$
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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 $\times 1/8 = 1$

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