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From $E_c - E_F = kT \ln [N_C / (N_D - N_A)]$ which can be rewritten as $N_D - N_A = N_C \exp [- (E_c - E_F) / kT]$ 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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1st point: $a = 2.54$ 2nd point: $a = 3$ Then $E_5 = 9.704$ $E_6 = 13.537$ so $E = 3.83 \text{ eV}$ (d) $3 < ka < 4$ 1st point: $a = 3.44$ 2nd point: $a = 4$ Then $E_7 = 17.799$
 eV $E_8 = 24.066 \text{ eV}$ so $E = 6.27 \text{ eV}$ 3.10 $6 \sin \cos \cos$ $a a + a = ka$ Forbidden energy bands (a) $ka = \cos ka = -1$ 1st point ...

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and the material would begin to behave less like a semiconductor and more like a metal. If a_0 were to decrease, the bandgap energy would increase and the material would begin to
behave more like an insulator. 3.2 wave equation is: $\nabla^2 \psi = -k^2 \psi$ Assume the solution is of the form: $\psi = u \exp(jkx)$ Region ...

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