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$N_D - N_A = N_C \exp \left[ \frac{E_C - E_F}{kT} \right]$  Then  $N_D - N_A = 2.86 \times 10^{19} \exp \left( \frac{0.20}{0.0259} \right) = 1.26 \times 10^{16} \text{ cm}^{-3}$  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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 $26 E_3 = 4.145 \text{ eV}$   
 $E_4 = 6.0165 \text{ eV}$  so  $E = 1.87 \text{ eV}$  (c)  $2\pi < ka < 3\pi$  1st point:  $a = 2.54$   
2nd point:  $a = 3\pi$  Then  $E_5 = 9.704 \text{ eV}$   
 $E_6 = 13.537 \text{ eV}$  so  $E = 3.83 \text{ eV}$  (d)  $3\pi < ka < 4\pi$  1st point:  $a = 3.44$  2nd point:  $a = 4\pi$   
Then  $E_7 = 17.799 \text{ eV}$   
 $E_8 = 24.066 \text{ eV}$  so  $E = 6.27 \text{ eV}$   
 $3.10 \sin \cos \cos \pi \pi a + a = ka$  Forbidden energy bands (a)  $ka = \pi \cos ka = \pi$  1st point ...

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Chapter 3 D. A. Neamen Problem Solutions Chapter 3 3.1 If  $a_0$  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  $a_0$  were to decrease, the bandgap energy would increase and the material would begin to behave more like an insulator. 3.2 wave equation is:  $\frac{\partial^2 \psi}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} + \frac{\partial^2 \psi}{\partial z^2} = -k^2 \psi$  Assume the solution is of the form:  $\psi = E \exp(jk_x x + jk_y y + jk_z z - \omega t)$  Region ...

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