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

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 $E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165 \text{ eV}$ so $E = 1.87 \text{ eV}$ (c) $2 < ka < 3$ 1st point: $a = 2.54$ 2nd point: $a = 3$ Then $E_5 = 9.704 \text{ eV}$ $E_6 = 13.537 \text{ eV}$ so $E = 3.83 \text{ eV}$ (d) $3 < ka < 4$ 1st point: $a = 3.44$ 2nd point: $a = 4$ Then $E_7 = 17.799 \text{ eV}$ $E_8 = 24.066 \text{ eV}$ so $E = 6.27 \text{ eV}$
 $3.106 \sin \cos \cos$ $a + a = ka$ Forbidden energy bands (a)
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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.

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