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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} cm^{-3} or $N_D = 1.26 \times 10^{16} + N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$ A

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 $= 4.145 \text{ eV}$ $E \text{ eV} 4 = 6.0165$ so $E = 1.87 \text{ eV}$ (c) $2 < ka <$
3 1st point: $a = 2.54$ 2nd point: $a = 3$ Then $E \text{ eV} 5$

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= 9.704 eV $E_6 = 13.537$ eV so $E = 3.83$ eV (d) $3 < ka < 4$
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17.799 eV $E_8 = 24.066$ eV so $E = 6.27$ eV 3.10 $6 \sin \cos$
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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:

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$\frac{1}{2} \frac{d^2 x}{dt^2} + V(x) = 0$ Assume the solution is of the form: $E = \frac{1}{2} m \omega^2 x^2$
 $u = \exp(jkx - \omega t)$ Region ...

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3 atoms 4 enclosed atoms = 4 atoms Total of 8

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