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3.1 If α_0 were to
increase, the
bandgap energy
would decrease and
the material would
begin to behave

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 less like a
 semiconductor and
 more like a metal. If
 a 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: $\nabla^2 \psi = -\frac{2m}{\hbar^2} (E - V) \psi$
 Assume the

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Solution is of the
form: $E_t u \exp j k x$
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Problem Solutions
 $26 E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165 \text{ eV}$ so
 $E = 1.87 \text{ eV}$ (c)
 $2 < ka < 3$ 1st
point: $a = 2.54$
2nd point: $a = 3$

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Then $E_5 = 9.704$ eV
 $E_6 = 13.537$ so $E = 3.83$ eV (d) $3 < ka < 4$

1st point:

$$a = 3.44 \quad \text{2nd}$$

point: $a = 4$

Then $E_7 = 17.799$

eV $E_8 = 24.066$ eV

so $E = 6.27$ eV

$3.106 \sin \cos \cos$

$$a^2 + a^2 =$$

ka Forbidden

energy bands (a) ka

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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 $N_D - N_A = 2.86 \times 10^{19} \exp(-0.20 / 0.0259)$
 $= 1.26 \times 10^{16}$
cm⁻³ or $N_D = 1.26 \times$

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$10^{16} + N_A = 2.26$
 $\times 10^{16} \text{ cm}^{-3}$
compensated
semiconductor can
be fabricated to
provide a specific
Fermi energy level.

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