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A. Neamen Problem
Solutions Chapter 3

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

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and more like a
metal. If α_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: $\nabla^2 \psi + (k^2 - \frac{2mE}{\hbar^2})\psi = 0$
Assume
the solution is of the
form: $\psi = u \exp(jkx - \omega t)$
Region ...

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Problem Solutions 26

$E_3 = 4.145 \text{ eV}$ $E_4 =$

6.0165 eV so $E_4 =$

1.87 eV (c) $2\pi a < ka <$

$3\pi a$ 1st point: $a =$

$2.54 \mu\text{m}$ 2nd point: $a =$

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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 $E = 6.27 \text{ eV}$
 $3.106 \sin \cos \cos a a +$
 $a = ka$ Forbidden
energy bands (a) $ka =$
 $\cos ka = -1$ 1st
point ...

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From $n_c - n_f = kT \ln [n_c / (n_d - n_a)]$
which can be
rewritten as $n_d - n_a = n_c \exp [-(E_c - E_f) / kT]$ Then $n_d -$

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$NA = 2.86 \times 10^{19}$
 $\exp(-0.20 / 0.0259)$
 $= 1.26 \times 10^{16} \text{ cm}^{-3}$ or
 $ND = 1.26 \times 10^{16} +$
 $NA = 2.26 \times 10^{16}$
 cm^{-3} A compensated
semiconductor can
be fabricated to
provide a specific
Fermi energy level.

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