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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

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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: $\psi = u \exp(jkx - \omega t)$
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Solutions 26 $E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165$ so $\Delta E = 1.87$
 eV (c) $2\pi < ka < 3\pi$ 1st
point: $a = 2.54\pi$ 2nd point:
 $a = 3\pi$ Then $E_5 = 9.704$
 $E_6 = 13.537$ so $\Delta E = 3.83$
 eV (d) $3\pi < ka < 4\pi$ 1st
point: $a = 3.44\pi$ 2nd point:
 $a = 4\pi$ Then $E_7 = 17.799 \text{ eV}$
 $E_8 = 24.066 \text{ eV}$ so $\Delta E = 6.27$
 eV 3.10 $\sin^2 \theta + \cos^2 \theta = 1$
 $a^2 \sin^2 \theta + a^2 \cos^2 \theta = ka^2$ Forbidden
energy bands (a) $ka = \pi$?
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