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If α_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 α_0 were to decrease, the bandgap energy would increase and the material would

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begin to behave more
like an insulator. 3.2

wave equation is: $\nabla^2 \psi = -\frac{q}{\epsilon_0} N_D \psi$,
 $\psi = V(x) e^{-\alpha x}$, $\alpha = \sqrt{\frac{q N_D}{\epsilon_0}}$ Assume

the solution is of the
form: $E(x) = E_0 e^{-\alpha x}$

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Solutions 26 $E_3 = 4.145$

eV $E_4 = 6.0165$ so

$\Delta E = 1.87$ eV (c) $2\pi < ka$

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

2.54π 2nd point: $\Delta a = 3\pi$

Then $E_5 = 9.704$ eV

$E_6 = 13.537$ so $\Delta E =$

3.83 eV (d) $3\pi < ka < 4\pi$

1st point: $\Delta a = 3.44\pi$ 2nd

point: $\Delta a = 4\pi$ Then $E_7 =$

17.799 eV $E_8 = 24.066$

eV so $\Delta E = 6.27$ eV 3.10

$6 \sin \cos \cos \pi \pi \pi a a + a$

$= ka$ Forbidden energy

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bands (a) $ka = \pi \cos ka$
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