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 $?E = 1.87 \text{ eV}$ (c) $2? < k_a < 3? \text{ 1st}$

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point: $ka = 2.54$ 2nd point: $ka = 3$
Then $E_5 = 9.704$ eV $E_6 = 13.537$
so $E_g = 3.83$ eV (d) $3 < ka < 4$ 1st
point: $ka = 3.44$ 2nd point: $ka = 4$
Then $E_7 = 17.799$ eV $E_8 = 24.066$ eV
so $E_g = 6.27$ eV $3.106 \sin \cos \cos ? ?$
 $ka + ka = ka$ Forbidden energy bands
(a) $ka = ? ? \cos ka = ?$ 1st point ...

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of atoms are at the corners and the

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Solutions FG 4?r IJH3K34 atoms per

cell, so atom vol. = 41.1(a) fcc: 8

corner atoms $\times 1/8 = 1$ atom 6 face

atoms $\times 1/2 = 3$ atoms Total of 4 atoms

per unit cell Then FG 4?r IJH 3 K \times

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100% ?34Ratio = (b) bcc: 8 corner
atoms $\times 1/8 = 1$ atom
1 enclosed
atom = 1 atom
Total of 2 atoms per unit
cell
Ratio = 74%
316 2 r(c) Body-
centered cubic lattice
4d = ...

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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

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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 solution is of the form: $\psi = u \exp(jkx - \omega t)$ Region ...

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