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$= 1.87 \text{ eV}$ (c) $2\pi < ka < 3\pi$ 1st

point: $\alpha a = 2.54\pi$ 2nd point: $\alpha a =$

3π Then $E \text{ eV } 5 = 9.704$ $E \text{ eV } 6 =$

13.537 so $\Delta E = 3.83 \text{ eV}$ (d) $3\pi <$

$ka < 4\pi$ 1st point: $\alpha a = 3.44\pi$ 2nd

point: $\alpha a = 4\pi$ Then $E7 = 17.799$

eV $E8 = 24.066 \text{ eV}$ so $\Delta E = 6.27$

eV 3.10 $6 \sin \cos \cos \alpha \alpha \alpha a a +$

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FG $4\pi r$ 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 $4\pi r$ IJH 3 K $\times 100\%$
 $\square 34$ Ratio = (b) bcc: 8 corner
atoms $\times 1/8 = 1$ atom 1 enclosed
atom = 1 atom Total of 2 atoms
per unit cell Ratio = 74% $316 2 r(c)$

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Problem Solutions Chapter 3 3.1 If
a 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 begin to behave more like
an insulator. 3.2 wave equation
is: $\nabla^2 \psi + (2m \cdot E / \hbar^2 - k^2) \psi = 0$
Assume the solution is of the form:
 $\psi = E \cdot u \cdot \exp(j \cdot k_x \cdot x)$ Region ...

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