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 $E_4 = 6.0165 \text{ eV}$ so $E = 1.87 \text{ eV}$ (c) $2 < ka < 3$ 1st point: $a = 2.54$
2nd point: $a = 3$ 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 $E_7 = 17.799 \text{ eV}$ $E_8 = 24.066 \text{ eV}$

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so $E = 6.27 \text{ eV}$ $3.106 \sin \cos \cos$ $a a + a = ka$
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Chapter 3 D. A. Neamen Problem Solutions 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 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: $\psi = u \exp(jkx)$ Region ...

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Problem Solutions 1.1 (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 (b) bcc: 8

corner atoms $\times 1/8 = 1$ atom 1 enclosed atom = 1 atom Total of 2

atoms per unit cell (c) Diamond: 8 corner atoms $\times 1/8 = 1$ atom 6

face atoms $\times 1/2 = 3$ atoms 4 enclosed atoms = 4 atoms Total of 8

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