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energy would decrease and the material  
would begin to behave less like a  
semiconductor and more like a metal. If  
 $\alpha_0$  were to decrease, the bandgap  
energy would increase and the material  
would begin to behave more like an  
insulator. 3.2 wave equation is:  $\nabla^2 \psi = -k^2 \psi$   
Assume the solution is of  
the form:  $\psi = E_0 \exp(jkx - \omega t)$  Region ...

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face atoms  $\times 1/2 = 3$  atoms Total of 4  
atoms per unit cell (b) bcc: 8 corner  
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= 1 atom Total of 2 atoms per unit cell  
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