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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: $\nabla^2 \psi + (E - V)\psi = 0$, $\nabla^2 \psi + (E - V)\psi = 0$

Assume the solution is of

the form: $\psi = u \exp(jkx - \omega t)$

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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 ...

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carrier characteristics are then developed in Chapter 6.

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