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$1/8 = 1$ atom 6

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3 atoms Total of

4 atoms per unit

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From $E_c - E_F =$
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 $- N_A)]$ which can
be rewritten as

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$$N_D - N_A = N_C \exp$$

$$\left[-\frac{(E_C - E_F)}{kT} \right]$$

Then $N_D - N_A =$

$$2.86 \times 10^{19}$$

$$\exp(-0.20 /$$

$$0.0259) = 1.26 \times$$

$$10^{16} \text{ cm}^{-3} \text{ or } N_D =$$

$$1.26 \times 10^{16} +$$

$$N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$$

$$\text{A}$$

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would begin to behave more like an insulator.

3.2 wave

equation is: $\nabla^2 V = -\rho / \epsilon_0$

$\nabla^2 V = -\rho / \epsilon_0$

2 t Assume the

solution is of

the form: $E = E_0 \exp(jkx - \omega t)$

$\exp(jkx - \omega t)$

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