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of 4 atoms per unit cell (b) bcc: 8
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$u(x) = A e^{-j(kx)} + B e^{j(kx)}$

The proposed solution is $u(x) = A e^{-j(kx)} + B e^{j(kx)}$. The first derivative is $\frac{du(x)}{dx} = -jA e^{-j(kx)} + jB e^{j(kx)}$. The second derivative becomes $\frac{d^2u(x)}{dx^2} = -k^2 A e^{-j(kx)} - k^2 B e^{j(kx)}$.

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From $E_c - E_F = kT \ln [N_C / (N_D - N_A)]$ which can be rewritten as $N_D - N_A = N_C \exp [-(E_c - E_F) / kT]$ Then
 $N_D - N_A = 2.86 \times 10^{19} \exp(-0.20 / 0.0259) = 1.26 \times 10^{16} \text{ cm}^{-3}$ or $N_D =$

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$$1.26 \times 10^{16} + N_A = 2.26 \times 10^{16} \text{ cm}^{-3}$$

A compensated semiconductor can be fabricated to provide a specific Fermi energy level.

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Chapter 3 3.1 If α_0 were to increase,
the bandgap energy would decrease
and the material would begin to

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And Devices 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: $\nabla^2 \psi = -\frac{2m^*}{\hbar^2} (E - V) \psi$ Assume the solution is of the form: $\psi = u \exp(jkx) \exp(-\alpha z)$ Region ...

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