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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

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$N_D - N_A = 2.86 \times 10^{19} \exp$   
 $(-0.20 / 0.0259) = 1.26 \times$   
 $10^{16} \text{ cm}^{-3}$  or  $N_D = 1.26 \times 10^{16}$   
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can be fabricated to provide  
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Solutions 26  $E_3 = 4.145 \text{ eV}$   $E$

$\text{eV}$   $4 = 6.0165$  so  $E = 1.87$

$\text{eV}$  (c)  $2\pi < ka < 3\pi$  1st

point:  $a = 2.54\pi$  2nd point:

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$E_5 = 9.704$  eV  
 $E_6 = 13.537$  eV so  $E = 3.83$  eV  
(d)  $3\lambda < ka < 4\lambda$  1st  
point:  $\lambda = 3.44\lambda$  2nd point:  
 $\lambda = 4\lambda$  Then  $E_7 = 17.799$  eV  
 $E_8 = 24.066$  eV so  $E = 6.27$   
eV  $3.10 \sin \theta = ka$  Forbidden  
 $a \sin \theta + a \cos \theta = ka$

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energy bands (a)  $ka = \pi$   
 $\cos ka = 0$  1st point ...

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Chapter 3 3.1 If  $\alpha_0$  were to increase, the bandgap energy would decrease and the material would begin to behave less like a semiconductor and more like

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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:  $\nabla^2 \psi + k^2 \psi = 0$  Assume the solution is of

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the form: E t u exp j kx t  
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Solutions Manual Problem

Solutions Chapter 1 3

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

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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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