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Semiconductor Devices
Chapter 4 Solutions
Manual Problem
Solutions _____ $N_d = v_d$
 $= 2.4 \times 10^4 \text{ cm} / \text{s}$ Then
 $1 \times 10^{21} \text{ cm}^{-3} - 3.1 \times 10^{21} \text{ cm}^{-3} = 2.4 \times 10^4 \text{ E}$
 $= n - v_d = (1.08)$
 $9.11 \times 10^{21} \text{ cm}^{-3} \text{ or } 4 \times 10^{21}$

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Solutions _____ $N_d = v_d$
 $= 2.4 \times 10^8 \text{ cm} / \text{s}$ Then
 $1 * 2 \cdot 10^{-31} \cdot 2.4 \times 10^8 \text{ E}$
 $= m_n v_d = (1.08)$
 $9.11 \times 10^{-31} \text{ or } 4 \cdot 1$ An
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Solutions Chapter 3 23
Problem Solutions 31 If
 α_0 were to increase,
the bandgap energy
would decrease and
the material would
begin to behave less
like a semiconductor
and more like a metal
(Neamen

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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
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 $\times 1/2 = 3$

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atoms 4 enclosed
atoms = 4 atoms Total
of 8 atoms per unit cell
1.2 (a) 4 Ga atoms per
...

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in semiconductor
physics, and
devices. Through the
course of this book, the
readers are guided
through concepts such
as quantum theory of
solids, semiconductor
material physics,
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An Introduction to
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by Donald Neamen
provides an
understanding of the
characteristics,
operations and
limitations of
semiconductor devices.

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In order to provide this understanding, the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics.

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