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23. Measuring a
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the diffusion equation.

2.10. The drift-diffusion
model

2.11 Semiconductor
thermodynamics.

2.11.1. Thermal
equilibrium

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2.11.2. Thermodynamic identity
2.11.3. The Fermi energy
2.11.4. Example: an ideal electron gas
2.11.5. Quasi-Fermi energies
2.11.6. Energy loss in recombination processes
2.11.7. Thermo-electric effects in semiconductors

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τ_p Hole lifetime s

Potential V_B Barrier
height V_F Bulk

potential V_i Built-in
potential of a p-n diode

or Schottky diode V_s

Potential at the

semiconductor surface V_M

Workfunction of

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of the metal V_{MS}

Workfunction difference
between the metal and

the semiconductor V_{S}

Workfunction of the
semiconductor V

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semiconductor device

electronic circuit

component made from a

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material that is neither a good conductor nor a good insulator hence semiconductor such devices have found wide applications because of their compactness reliability and low cost "

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Manual Problem

Solutions Chapter 1 3
Problem Solutions 1.1

(a) fcc: 8 corner atoms
 $\times 1/8 = 1$ atom 6 face

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atoms $\times \frac{1}{2} = 3$ atoms

Total of 4 atoms per unit
cell (b) bcc: 8 corner

atoms $\times \frac{1}{8} = 1$ atom 1

enclosed atom = 1 atom

Total of 2 atoms per unit
cell (c) Diamond: 8

corner atoms $\times \frac{1}{8} = 1$

atom 6 face atoms $\times \frac{1}{2}$

= 3 atoms 4 enclosed

atoms = 4 atoms Total of

8 atoms per unit cell 1.2

(a) 4 Ga atoms per ...

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An Introduction to
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Chapter 4 Solutions

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Manual Problem

Solutions _____ $N_d = v_d$
 $= 2.4 \times 10^6 \text{ cm} / \text{s}$ Then 1^*
 $2 \cdot 1 - 31 \cdot 2 \cdot 2.4 \times 10^6 \text{ E} =$
 $\text{mn } v_d = (1.08) \cdot 9.11 \times 10^{-31}$
2 or 4 1

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Problem Solutions 1.1

(a) fcc: 8 corner atoms

$\times \frac{1}{8} = 1$ atom 6 face

atoms $\times \frac{1}{2} = 3$ atoms

Total of 4 atoms per

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phonon scattering is the
only mechanism that
limits the carrier mobility
in semiconductor devices

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— scattering at high temperatures, can be expressed by the powerlaw equation...

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