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| Vinod Rathode

Chapter 23. Measuring a
Nation's income.

Exercises 1-6. Basic

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What is Intrinsic and
Extrinsic

Semiconductors | What
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Semiconductors: What
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Animation | How a P N
junction semiconductor
works | forward reverse
bias | diffusion drift

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Physics | PN Junction
Sem Diodes |
Solved Example-3 on
PN Junction | its
Application (GA) □□

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TYPE | Intrinsic

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Extrinsic p-Type n-Type

| video in HINDI H C

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~~Chapter 45~~

~~QUESTION 28 (Q28)~~

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Steady state solution to
the diffusion equation.

2.10. The drift-diffusion
model

2.11 Semiconductor
thermodynamics.

2.11.1. Thermal
equilibrium

2.11.2. Thermodynamic

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identity 2.11.3. The
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2.11.4. Example: an
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2.11.5. Quasi-Fermi
energies 2.11.6. Energy
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processes
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□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

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V ϕ M Workfunction of
the metal V ϕ MS

Workfunction difference
between the metal and
the semiconductor V ϕ S

Workfunction of the
semiconductor V

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june 23rd, 2018 -
semiconductor device
electronic circuit

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component made from a 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 "

Semiconductor and
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(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 $\times 1/2$

$= 3$ atoms 4 enclosed

atoms = 4 atoms Total

of 8 atoms per unit cell

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Solutions _____ $N_d =$

$v_d = 2.4 \times 10^6 \text{ cm / s}$

Then $1 \times 10^{16} \text{ cm}^{-3} \times 2.4 \times 10^6 \text{ cm / s} =$

$2.4 \times 10^{22} \text{ cm}^{-2} \text{ s}^{-1}$

$9.11 \times 10^{-31} \text{ kg} \times 2.4 \times 10^{22} \text{ cm}^{-2} \text{ s}^{-1} =$

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atoms $\times \frac{1}{2} = 3$ atoms
Total of 4 atoms per
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