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τ_p Hole lifetime s

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

the metal V_{MS}

Workfunction difference

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between the metal and
the semiconductor V

S Workfunction of the
semiconductor V

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electronic circuit
component made from
a material that is neither
a good conductor nor a

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good insulator hence
semiconductor such
devices have found wide
applications because of
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Problem Solutions 1.1
(a) fcc: 8 corner atoms
 $\times 1/8 = 1$ atom 6 face
atoms $\times 1/2 = 3$ atoms

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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 1.2

(a) 4 Ga atoms per ...

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Manual Problem

Solutions _____ Nd =

$v_d = 2.4 \times 10^4 \text{ cm / s}$

Then $1 \times 2 \times 10^{-31} \times 2.4 \times 10^4$

$\times 10^6 \text{ E} = m n v_d = (1.08)$

$9.11 \times 10^{-31} \times 2 \times 10^{22} \text{ or } 4 \times 10^{22}$

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$\times 1/8 = 1$ atom 6 face

atoms $\times 1/2 = 3$ atoms

Total of 4 atoms per

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phonon scattering is the
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particles and gives a profound insight into the physics of semiconductor devices.

The method can be applied to devices of any geometrical complexity and material composition. It yields an accurate description of the device, which is not limited by the assumptions made behind the alternative

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drift diffusion and hydrodynamic models, which represent approximate solutions to the transport equation.

While the development of the particle modelling technique has been hampered in the past by the cost of computer time, today this should not be held against using a method which gives a profound

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physical insight into individual devices and can be used to predict the properties of devices not yet manufactured.

Employed in this way it can save the developer much time and large sums of money, both important considerations for the laboratory which wants to keep abreast of the field of device research.

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Applying it to already existing electronic components may lead to novel ideas for their improvement. The Monte Carlo particle simulation technique is applicable to microelectronic components of any arbitrary shape and complexity.

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devices, pn junction

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