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potential of a p-n diode or Schottky diode V_s
 V_s Potential at the semiconductor surface V_M
 V_M Workfunction of the metal V_{MS}
Workfunction difference between the metal
and the semiconductor V_S
 V_S Workfunction of the semiconductor V

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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
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enclosed atom = 1 atom Total of 2 atoms
per unit cell (c) Diamond: 8 corner atoms
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Then $1 \times 10^{21} - 31 \times 2.4 \times 10^6 \text{ E} = m n v_d =$

(1.08) $9.11 \times 10^{-31} \text{ or } 4 \times 10^{-31}$

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