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Principles of Semiconductor Devices  $\tau_p$  Hole lifetime  $s$   $\phi$   
Potential  $V$   $\phi_B$  Barrier height  $V$   $\phi_F$  Bulk potential  $V$   $\phi_i$  Built-in

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potential of a p-n diode or Schottky diode  $V_{\phi s}$  Potential at the semiconductor surface  $V_{\phi M}$  Workfunction of the metal  $V_{\phi MS}$  Workfunction difference between the metal and the semiconductor  $V_{\phi S}$  Workfunction of the semiconductor  $V$

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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  
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