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height V_{FB} Bulk potential V_{bi} Built-in potential of a p-n diode or Schottky diode V_{ps} Potential at the semiconductor surface $V_{\Phi\text{M}}$ Workfunction of the metal $V_{\Phi\text{MS}}$ Workfunction difference between the metal and the

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1 atom 6 face atoms \times $1/2 = 3$

atoms Total of 4 atoms per

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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

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per unit cell 1.2 (a) 4 Ga
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vd = 2.4 x10 cm / s Then 1 *
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atoms Total of 4 atoms per

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