

## Semiconductor Physics And Devices Basic Principles 4th Edition

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### Semiconductor - Wikipedia

1.1 (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

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A semiconductor is a substance whose resistivity lies between the conductors and insulators. The property of resistivity is not the only one that decides a material as a semiconductor, but it has few properties as follows. Semiconductors have the resistivity which is less than insulators and more than conductors.

### Basic Electronics - Semiconductors - Tutorialspoint

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