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Solutions Chapter 1 3

Problem Solutions 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 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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