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3.10 $6 \sin \alpha a + 6 \cos \alpha a = ka$ Forbidden energy

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Total of 4 atoms per unit cell (b) bcc: 8 corner atoms $\times 1/8 = 1$ atom 1 enclosed atom = 1

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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
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