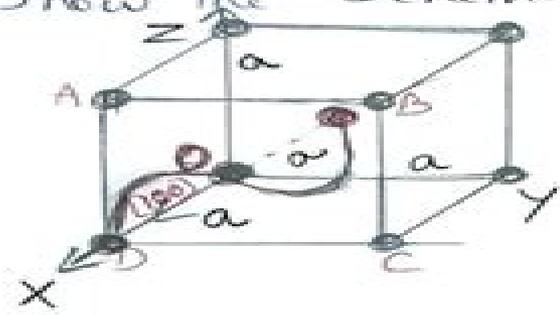


Problems:

Calculate the minimum wavelength for a wave travelling in  $[100]$  and  $[111]$  directions of an fcc crystal with unit cell edge,  $4.08 \text{ \AA}$ . Show the schematic representations.



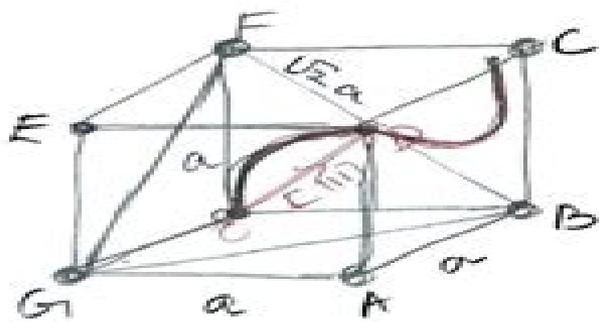
$ABCD \Rightarrow (100)$  plane  
 $OD \Rightarrow [100]$  direction

$$OD = \frac{\lambda}{2} \therefore a = \frac{\lambda}{2}$$

$$\therefore \lambda = 2a$$

$\therefore$  Minimum wavelength of the wave travelling in  $[100]$  direction,  $\lambda = 2 \times 4.08 \text{ \AA}$

$$\therefore \lambda = \underline{\underline{8.16 \text{ \AA}}}$$



$BFG \Rightarrow [111]$  plane (plane is normal to direction)  
 $OD \Rightarrow [111]$  plane (body diagonal)

$$OD = \frac{\lambda}{2} \therefore \text{Body diagonal is } \underline{\underline{[111]}}$$

Consider the triangle

$\Delta OFD$ .

$$OF = a ; FD = \sqrt{2} a$$

$$\therefore OD^2 = OF^2 + FD^2$$

$$= a^2 + (\sqrt{2} a)^2$$

$$= a^2 + 2a^2 = 3a^2$$

$$OD = \sqrt{3} a \text{ --- (2)}$$

$$FD^2 = EF^2 + ED^2$$

$$= a^2 + a^2$$

$$FD^2 = 2a^2$$

$$\therefore FD = \sqrt{2} a$$

From (1) & (2),  $\sqrt{3} a = \frac{\lambda}{2}$

$$\therefore \lambda = 2\sqrt{3} a = 2\sqrt{3} \times 4.08 \text{ \AA} = \sqrt{3} \times 8.16 = \underline{\underline{14.1335 \text{ \AA}}}$$

# Problems And Solution Of Of Solid State

**Marilyn E Noz, Gerald Q Maguire Jr**



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