



$$\begin{aligned} \theta &= 75^\circ \\ \theta &= 15^\circ \\ 2\theta &< 90^\circ \text{ 透射} \end{aligned} \quad \left. \begin{array}{l} \theta = 75^\circ \\ \theta = 15^\circ \end{array} \right\} \text{ 能记}$$

a.  $\tan 2\theta = \frac{S}{D}$

$$S = D \cdot \tan 2\theta = \frac{113}{3} \cdot 50 \text{ nm} = 18.87 \text{ nm} \quad \text{能记}$$

b.  $\tan 2\theta' = \frac{S}{D} = \frac{20}{50} = 0.4$

$$\theta' = 10.9^\circ$$

$$\theta' = 79.1^\circ$$

转动后付使其(即)面法线与入射光线夹角为  $79.1^\circ$

c.  $2d \sin \theta = n\lambda$

$$0.06 \text{ mm} \cdot \frac{1000}{30} \leq \lambda \leq 0.2 \text{ mm}$$

$$d \cdot \sin \theta = \frac{a_s}{4\pi} (h^2 + k^2)$$

$$m = \frac{4\pi^2 \sin \theta}{a_s}$$

we.  $\text{http://}$   
n.b.  $1/2 \times 500$   
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