

Dominik Rutherford 4e

4.4

$$D: \lambda = 0,5 \text{ m}$$

$$\alpha = 1^\circ$$

Sz:

$$D = ?$$

$$\sin \alpha = 1,22 \cdot \frac{\lambda}{D}$$

Roz.

$$D \cdot \sin \alpha = 1,22 \cdot \lambda$$

$$D = \frac{1,22 \cdot \lambda}{\sin \alpha}$$

$$\sin 1^\circ = 0,0175$$

$$D = \frac{1,22 \cdot 0,5 \text{ m}}{\sin 1^\circ} = \frac{0,61 \text{ m}}{0,0175} \approx \underline{\underline{35 \text{ m}}}$$