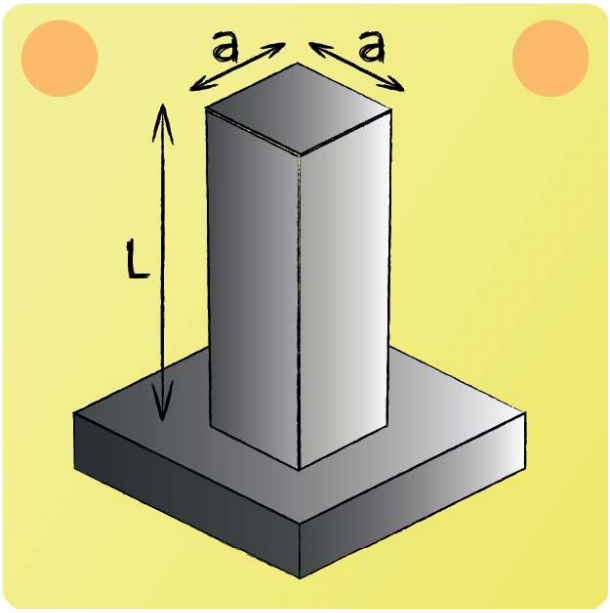
Conduction Fins 05



Determine the fin parameter m for the shown fin geometry.

And thus:

$$m^2 = \frac{\alpha \cdot U}{\lambda \cdot A_c} = \frac{\alpha \cdot 4 \cdot a}{\lambda \cdot a^2} = \frac{4 \cdot \alpha}{\lambda \cdot a}$$

$$m = \sqrt{\frac{4 \cdot \alpha}{\lambda \cdot a}}$$