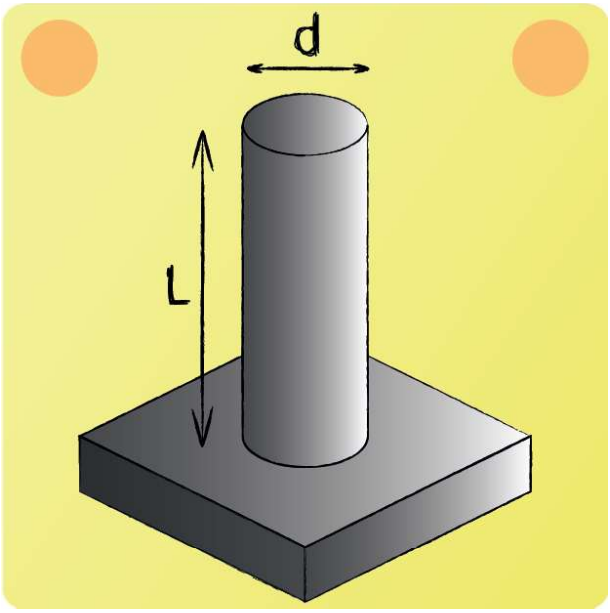
Conduction Fins 08



Determine the fin parameter m for the shown fin geometry.

$$m^2 = \frac{\alpha \cdot U}{\lambda \cdot A_\mathrm{c}} = \frac{\alpha \cdot d \cdot \pi}{\lambda \cdot \frac{1}{4}\pi d^2}$$

And thus:

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