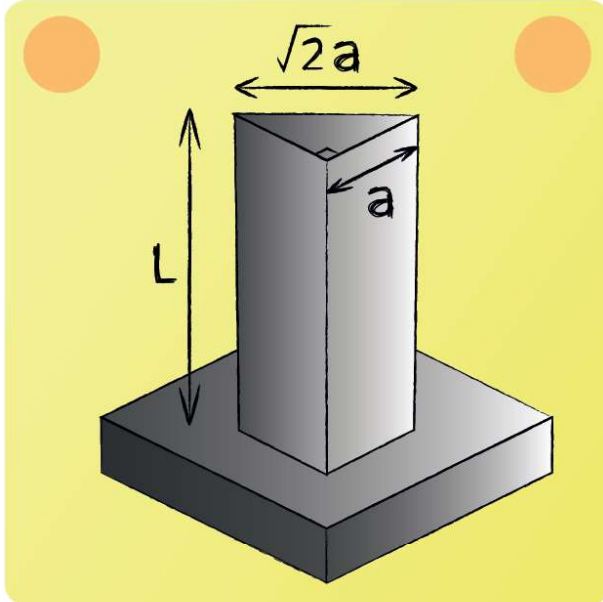


Conduction Fins 07



Determine the fin parameter m for the shown fin geometry.



And thus:

$$m^2 = \frac{\alpha \cdot U}{\lambda \cdot A_c} = \frac{\alpha \cdot a \cdot (2 + \sqrt{2})}{\lambda \cdot \frac{1}{2} \cdot a^2}$$

$$m = \sqrt{\frac{\alpha \cdot (4 + 2\sqrt{2})}{\lambda \cdot a}}$$