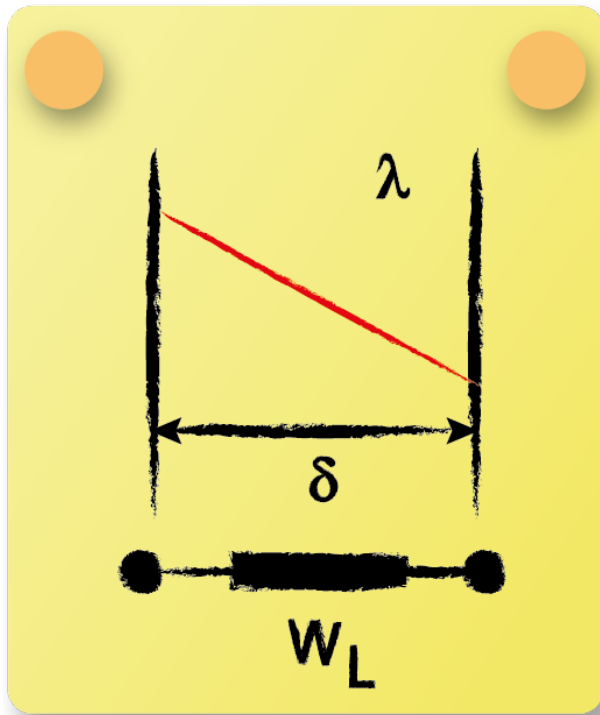




Heat Transfer Resistance: Task 1



A wall is given with thickness δ and cross section area A and a temperature delta ΔT from left to right.

Heat transfer resistance is defined as:

$$W = \frac{\Delta T}{\dot{Q}}$$



with:

$$\dot{Q} = \lambda \frac{\partial T}{\partial x} A$$

one obtains:

$$W = \frac{\delta}{\lambda A}$$