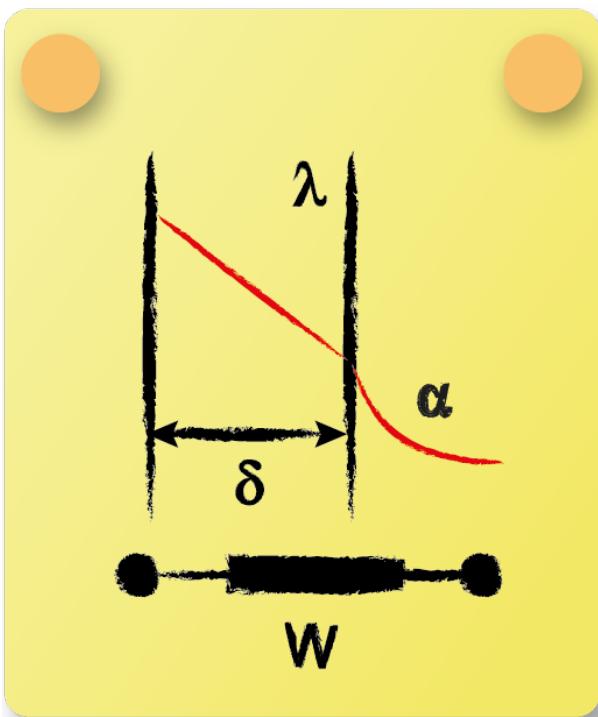


Heat Transfer Resistance: Task 4



A wall is given with thickness δ and cross section area A . Convective heat transfer at the right is specified by the heat transfer coefficient α .

The overall heat transfer resistance in series is calculated as the sum of each contribution:



Which yields:

$$W = \sum_i W_i$$

$$W = \frac{\delta}{\lambda A} + \frac{1}{\alpha A}$$