Week 1

Summary

The lesson show the basic heat transfer processes. When the heat was send inside, the wall can be a role that can enable the amount of heat to transfer through the wall.

L=0.4m, A=20m², ΔT=25K, and k=0.78$\frac{W}{mK}$,using both simple method and using the resistance concept.

Method A: $Q=kA\frac{\Delta T}{L}=0.78*\frac{25}{0.4}=975W$

Method B:
$$R=\frac{L}{kA}=0.4/0.78/20=\frac{1}{39}$$
$$Q=\frac{\Delta T}{R}=25/\frac{1}{39}=975W$$