Pedram Abedini Arabani

WEEK 1

Conductivity = Conductivity is wilingness of material to transfer heat.

$$\dot{Q}$$
=KA×(Δ T/L)= 0.78 W/m × 20 m2 × (25/0.4 m)= 975 W

$$R=(L/KA)=(0.4 \text{ m /(0.78 W/m} \times 20 \text{ m2}))=0.02564 \text{ c/w}$$

$$\dot{Q}=(\Delta T/R)=(25/0.0256)=975 \text{ W}$$