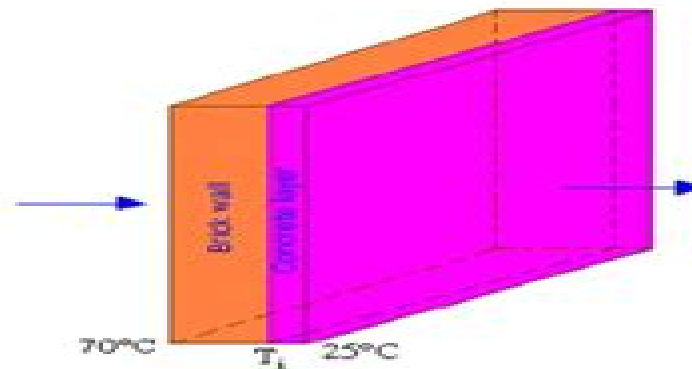


SOLVED PROBLEMS IN HEAT TRANSFER

Heat Loss by Conduction

A plane brick wall, 25 cm thick, is faced with 5 cm thick concrete layer. If the temperature of the exposed brick face is 70°C and that of the concrete is 25°C, find out the heat lost per hour through a wall of 15 m × 10 m. Also, determine the interface temperature. Thermal conductivity of the brick and concrete are 0.7 W/m.K and 0.95 W/m.K respectively.

Calculations:



$$\text{Heat loss } Q = (T_a - T_b) / R$$

Where $T_a = 70^\circ\text{C}$; $T_b = 25^\circ\text{C}$; and

$$R = R_{\text{brick}} + R_{\text{concrete}}$$

$$R_{\text{brick}} = L_{\text{brick}} / (A k_{\text{brick}})$$

$$R_{\text{concrete}} = L_{\text{concrete}} / (A k_{\text{concrete}})$$

$$A = 15 \times 10 = 150 \text{ m}^2$$

$$R_{\text{brick}} = 0.25 / (150 \times 0.7) = 2.381 \times 10^{-3} \text{ }^\circ\text{C/W}$$

$$R_{\text{concrete}} = 0.05 / (150 \times 0.95) = 3.509 \times 10^{-4} \text{ }^\circ\text{C/W}$$

$$R = 2.381 \times 10^{-3} + 3.509 \times 10^{-4} = 2.732 \times 10^{-3} \text{ }^\circ\text{C/W}$$

$$Q = (70 - 25) / (2.732 \times 10^{-3}) = 16471.4 \text{ W} = 16471.4 \text{ J/sec} = 59.3 \text{ MJ/hr}$$

Heat loss per hour = 59.3 MJ

At steady state, this is the amount of heat transferred through the brick wall or concrete per hour.

$$Q = A k_{\text{brick}} (T_a - T_i) / L_{\text{brick}} = 16471.4 \text{ W}$$

$$150 \times 0.7 \times (70 - T_i) / 0.25 = 16471.4$$

$$70 - T_i = 39.2$$

$$T_i = 70 - 39.2 = 30.8^\circ\text{C}$$

Interface temperature $T_i = 30.8^\circ\text{C}$

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N. S. Inivas



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