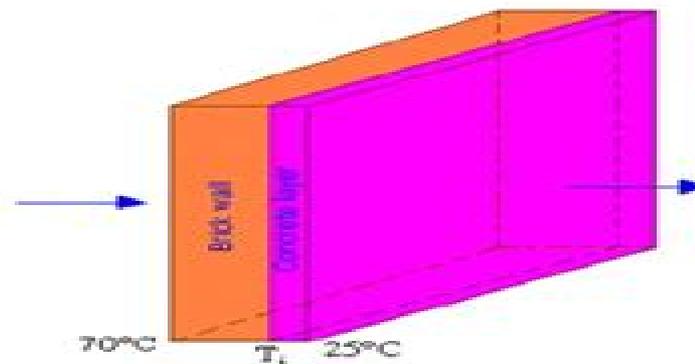


SOLVED PROBLEMS IN HEAT TRANSFER

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

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

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

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

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

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

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

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

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

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

1000 Solved Problems In Heat Transfer

H Kauffman



1000 Solved Problems In Heat Transfer:

Whispering the Strategies of Language: An Psychological Journey through **1000 Solved Problems In Heat Transfer**

In a digitally-driven earth where screens reign great and immediate connection drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within words often get unheard. However, set within the pages of **1000 Solved Problems In Heat Transfer** a fascinating fictional value pulsating with fresh feelings, lies an exceptional quest waiting to be undertaken. Written by a skilled wordsmith, that marvelous opus attracts visitors on an introspective trip, softly unraveling the veiled truths and profound influence resonating within the fabric of every word. Within the psychological depths of the moving review, we shall embark upon a honest exploration of the book is primary subjects, dissect their interesting writing fashion, and succumb to the effective resonance it evokes deep within the recesses of readers hearts.

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