

PROBLEM 1.8

KNOWN: Dimensions and thermal conductivity of food/beverage container. Inner and outer surface temperatures.

FIND: Heat flux through container wall and total heat load.

SCHEMATIC:



ASSUMPTIONS: (1) Steady-state conditions, (2) Negligible heat transfer through bottom wall, (3) Uniform surface temperatures and one-dimensional conduction through remaining walls.

ANALYSIS: From Fourier's law, Eq. 1.2, the heat flux is

$$q'' = k \frac{T_2 - T_1}{L} = \frac{0.023 \text{ W/m}\cdot\text{K} (20 - 2)^\circ\text{C}}{0.025 \text{ m}} = 16.6 \text{ W/m}^2 \quad \leftarrow$$

Since the flux is uniform over each of the five walls through which heat is transferred, the heat load is

$$q = q'' A_{\text{total}} = q'' [H(2W_1 + 2W_2) + W_1 + W_2]$$
$$q = 16.6 \text{ W/m}^2 [0.6 \text{ m} (1.6 \text{ m} + 1.2 \text{ m}) + (0.8 \text{ m} + 0.6 \text{ m})] = 35.9 \text{ W} \quad \leftarrow$$

COMMENTS: The corners and edges of the container create local departures from one-dimensional conduction, which increase the heat load. However, for $H, W_1, W_2 \gg L$, the effect is negligible.

Intro To Heat Transfer 6th Solution Manual

Peipei Pang



Intro To Heat Transfer 6th Solution Manual:

Enjoying the Tune of Expression: An Psychological Symphony within **Intro To Heat Transfer 6th Solution Manual**

In a global taken by monitors and the ceaseless chatter of immediate interaction, the melodic elegance and psychological symphony developed by the published word frequently diminish in to the backdrop, eclipsed by the constant sound and distractions that permeate our lives. Nevertheless, set within the pages of **Intro To Heat Transfer 6th Solution Manual** an enchanting fictional value overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that charming masterpiece conducts visitors on an emotional trip, well unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths of the poignant evaluation, we shall investigate the book is central harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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