

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.

Introduction Heat Transfer 6th Edition Solution Manual

Jessica J Manson



Introduction Heat Transfer 6th Edition Solution Manual:

Adopting the Beat of Term: An Mental Symphony within **Introduction Heat Transfer 6th Edition Solution Manual**

In a world used by displays and the ceaseless chatter of fast communication, the melodic splendor and emotional symphony created by the prepared term usually diminish into the back ground, eclipsed by the persistent noise and disruptions that permeate our lives. However, nestled within the pages of **Introduction Heat Transfer 6th Edition Solution Manual** a marvelous fictional value filled with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that fascinating masterpiece conducts readers on a psychological journey, well unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths with this moving assessment, we will explore the book is central harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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