

### PROBLEM 1.10

**KNOWN:** Thickness, diameter and inner surface temperature of bottom of pan used to boil water. Rate of heat transfer to the pan.

**FIND:** Outer surface temperature of pan for an aluminum and a copper bottom.

**SCHEMATIC:**



**ASSUMPTIONS:** (1) One-dimensional, steady-state conduction through bottom of pan.

**ANALYSIS:** From Fourier's law, the rate of heat transfer by conduction through the bottom of the pan is

$$q = kA \frac{T_1 - T_2}{L}$$

Hence,

$$T_1 = T_2 + \frac{qL}{kA}$$

where  $A = \pi D^2 / 4 = \pi (0.2 \text{ m})^2 / 4 = 0.0314 \text{ m}^2$ .

$$\text{Aluminum: } T_1 = 110^\circ\text{C} + \frac{600 \text{ W} (0.005 \text{ m})}{240 \text{ W/m}\cdot\text{K} (0.0314 \text{ m}^2)} = 110.40^\circ\text{C}$$

$$\text{Copper: } T_1 = 110^\circ\text{C} + \frac{600 \text{ W} (0.005 \text{ m})}{390 \text{ W/m}\cdot\text{K} (0.0314 \text{ m}^2)} = 110.25^\circ\text{C}$$

**COMMENTS:** Although the temperature drop across the bottom is slightly larger for aluminum (due to its smaller thermal conductivity), it is sufficiently small to be negligible for both materials. To a good approximation, the bottom may be considered *isothermal* at  $T = 110^\circ\text{C}$ , which is a desirable feature of pots and pans.

# Introduction To Heat Transfer Student Solution

**ML Yell**



## **Introduction To Heat Transfer Student Solution:**

## Whispering the Secrets of Language: An Psychological Quest through **Introduction To Heat Transfer Student Solution**

In a digitally-driven earth wherever monitors reign great and instant connection drowns out the subtleties of language, the profound secrets and psychological nuances hidden within words frequently go unheard. Yet, located within the pages of **Introduction To Heat Transfer Student Solution** a interesting fictional prize pulsating with fresh emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, this marvelous opus attracts readers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the very fabric of each and every word. Within the emotional depths of the poignant evaluation, we shall embark upon a heartfelt exploration of the book is core styles, dissect its fascinating writing design, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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