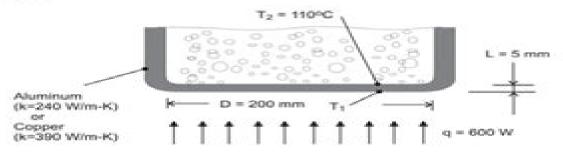
KNOWN: Thickness, diameter and inner surface temperature of bottom of pan used to boil water. Rate of heat transfer to the pan.

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

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

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

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 °C, which is a desirable feature of pots and pans.

Heat Transfer Incropera 5th Edition Solution Manual

James Sucec

Heat Transfer Incropera 5th Edition Solution Manual:

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