

- 1.21 The data presented in Example 1.4 in conjunction with the apparatus of Figure 1.11 allowed for finding a convective heat-transfer coefficient. The film coefficient calculated is the one defined in Newton's Law of Cooling. Suppose that we use a different definition for a convective heat-transfer coefficient. Specifically, where T_{wall} is the wall temperature at the inlet, T_{out} is the wall temperature at location 2, T_{bulk} is the bulk fluid temperature at the inlet, and T_{bulk} is the bulk fluid temperature at location 2. With the data of Example 1.4, determine the film coefficient \bar{h}_x . Is there any advantage of using this definition over the alternative?

Solution:

$$\dot{m} = 0.3 \text{ kg/s} \quad c_p = 0.2 \times 10^3 \text{ J/(kg}\cdot\text{K)} \quad T_{\text{wall}} = T_{\text{in}} = T_{\text{out}} = 75^\circ\text{C} = \text{constant wall temp.} \\ T_{\text{in}} = 21.4^\circ\text{C} \quad T_{\text{out}} = 20^\circ\text{C} \quad D = 0.025 \text{ m} \quad L = 0.2 \text{ m}$$

$$\dot{q} = \bar{h}_x A [(T_{\text{wall}} - T_{\text{in}}) + (T_{\text{out}} - T_{\text{in}})]$$

$$\dot{m} c_p (T_{\text{in}} - T_{\text{out}}) = \bar{h}_x A [(T_{\text{wall}} - T_{\text{in}}) + (T_{\text{out}} - T_{\text{in}})] \quad \text{Solving,}$$

$$\bar{h}_x = \frac{\dot{m} c_p (T_{\text{in}} - T_{\text{out}})}{A [(T_{\text{wall}} - T_{\text{in}}) + (T_{\text{out}} - T_{\text{in}})]}$$

$$\bar{h}_x = \frac{2(0.3)(0.2)(21.4 - 20)}{0.025(0.3)(75 - 20 + 75 - 21.4)}$$

$$\boxed{\bar{h}_x = 3.546 \text{ W/(m}^2\cdot\text{K)}}$$

This coefficient does not require more temperatures to be measured than is more cumbersome to use than the other.

Janna Heat Transfer Solution Manual

Shasha Hu



Janna Heat Transfer Solution Manual:

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