
PROBLEM 1.39 (Continued)

where $A_s = \pi DL = \pi(0.07 \text{ m} \times 0.15 \text{ m}) = 0.033 \text{ m}^2$. Hence,

$$q = 4 \text{ W/m}^2 \cdot \text{K} (0.033 \text{ m}^2) (20^\circ \text{C}) + 0.8 \times 0.033 \text{ m}^2 \times 5.67 \times 10^{-8} \text{ W/m}^2 \cdot \text{K}^4 (313^4 - 293^4) \text{K}^4$$

$$q = 2.64 \text{ W} + 3.33 \text{ W} = 5.97 \text{ W} \quad \leftarrow$$

The heat loss is much less than the electrical power, and the assumption of negligible heat loss is justified.

COMMENTS: Although the mass flow rate is invariant, the volumetric flow rate increases as the air is heated in its passage through the dryer, causing a reduction in the density.

However, for the prescribed temperature rise, the change in ρ , and hence the effect on \dot{V} , is small.

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