

3. An electrical power transformer has a diameter  $D_1 = 0.6 \text{ m}$ , height  $H = 0.6 \text{ m}$  and is cooled by ethylene glycol which runs through a thin-walled tube of diameter  $d = 25 \text{ mm}$  coiled around the body. The transformer dissipates  $1.02 \text{ kW}$  and is designed to operate at a constant surface temperature  $T_s = 370 \text{ K}$ . The ethylene glycol enters near the transformer at an inlet temperature  $T_{m,i} = 330 \text{ K}$  and it can be assumed that all heat lost by the transformer goes into the coolant. See Section 8.7 from the textbook for reference.

- If the temperature of the ethylene glycol increases  $\Delta T = 20 \text{ K}$  before it exits, determine the mass flow rate  $\dot{m}$  (in  $\frac{\text{kg}}{\text{s}}$ ).
- Determine the total length  $L$  (in  $\text{m}$ ) of tubing needed to maintain operating conditions.

**Answer :**  $L = 3.09 \text{ m}$

**Note\*** in equation 8.76, the  $D$  variable is the diameter of the helical tube and the  $C$  variable is defined as the distance between tube cross-section centers despite the drawing in the book appearing to be the outer diameter.

# Introduction To Heat Transfer 6th Edition Text Solution

**AW Rasmussen**



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