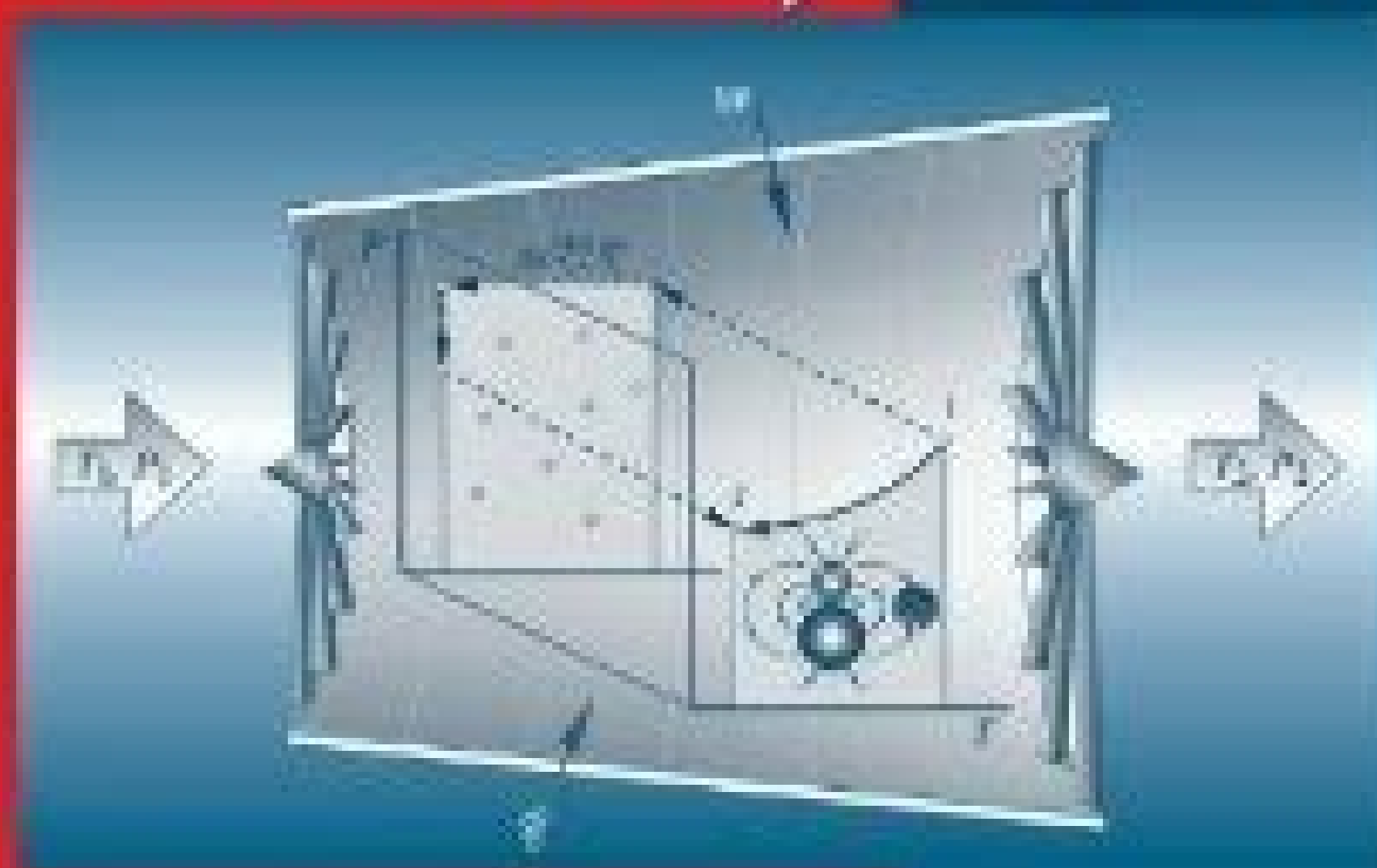


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Engineering and Chemical Thermodynamics



Milo D. Koretsky

2nd Edition

Solution Manual for Fundamentals of Chemical Engineering Thermodynamics 1st Edition by Dahm

Chapter 5: Thermodynamic Processes and Cycles

5-40 This problem examines the Rankine heat engine introduced in Figure 5-5. Saturated steam at $T = 250^\circ\text{C}$ enters the turbine and the condenser operates at $T = 40^\circ\text{C}$.

- A) Assuming the turbine is reversible, give your best estimate of the efficiency of the cycle, and indicate the quality of the stream leaving the turbine.
- B) Assuming the turbine has an efficiency of 75%, give your best estimate of the efficiency of the cycle, and indicate the quality of the stream leaving the turbine.
- C) Find the flow rate of circulating water needed to produce a net power of 1 MW from the cycle with the turbine efficiency of 75%.

Set an entropy balance around the adiabatic reversible turbine. **Solution:**

$$\frac{d(MS)}{dt} = \dot{m}_{in}\hat{S}_{in} - \dot{m}_{out}\hat{S}_{out} + \frac{\dot{Q}}{T} + \dot{S}_{gen}$$

Cancelling terms

$$\hat{S}_{in} = \hat{S}_{out}$$

Find $\hat{S}_{out}$

$$(\hat{S}_{in}) \rightarrow \text{Saturated Water vapor at } 250^\circ\text{C} \rightarrow 6.072 \frac{\text{kJ}}{\text{kg K}}$$
$$\hat{S}_{out} = 6.072 \frac{\text{kJ}}{\text{kg K}}$$

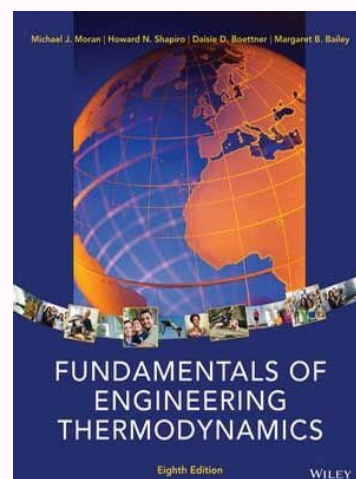
Find quality of mixture leaving reversible turbine:

$$\hat{S}_{out} = 6.072 \frac{\text{kJ}}{\text{kg K}} = (1 - q)\hat{S}_g + q\hat{S}_f$$

At 40°C :

$$\hat{S}_g = 0.572 \frac{\text{kJ}}{\text{kg K}}; \hat{S}_f = 0.256 \frac{\text{kJ}}{\text{kg K}}$$

$$q = 0.716$$



Engineering and Chemical Thermodynamics

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