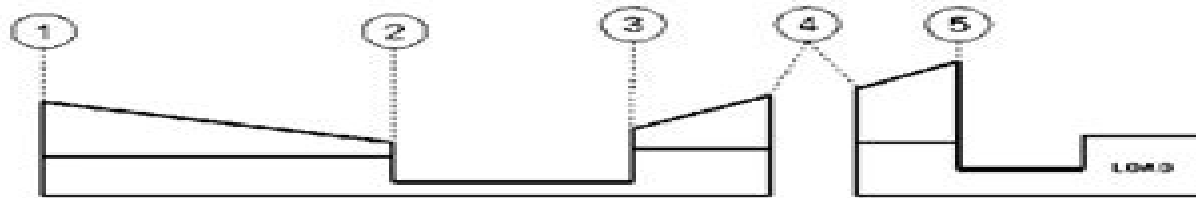


Problem 2.2



$$T_{02} - T_a = \frac{T_a}{\eta_c} \left[\left(\frac{P_{02}}{P_a} \right)^{\left(\frac{\gamma-1}{\gamma} \right)} - 1 \right]$$

$$= \frac{288}{0.82} \left[(11)^{\left(\frac{1}{3.5} \right)} - 1 \right] = 345.598 \text{ K}$$

Compressor and turbine work required per unit mass flow is:

$$W_{in} = \frac{C_{ps}(T_{02} - T_a)}{\eta_m} = C_{pt}(T_{03} - T_{04})$$

$$T_{03} - T_{04} = \frac{1.005 \times 345.598}{0.98 \times 1.147} = 308.992 \text{ K}$$

$$T_{04} = 1150 - 309 = 841 \text{ K}$$

$$T_{03} - T_{04} = \eta_t T_{03} \left[1 - \left(\frac{1}{P_{03}/P_{04}} \right)^{\left(\frac{\gamma-1}{\gamma} \right)} \right]$$

$$308.992 = 0.87 \times 1150 \left[1 - \left(\frac{1}{P_{03}/P_{04}} \right)^{\left(\frac{1}{4} \right)} \right]$$

$$\frac{P_{03}}{P_{04}} = 4.382$$

$$P_{03} = 11.0 - 0.4 = 10.6 \text{ bar}$$

$$P_{04} = 2.418 \text{ bar} \quad , \quad P_{03} = P_a$$

$$T_{04} - T_{02} = 0.89 \times 841 \left[1 - \left(\frac{1}{2.418} \right)^{\left(\frac{1}{4} \right)} \right] = 148.254 \text{ K}$$

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Y Pai



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