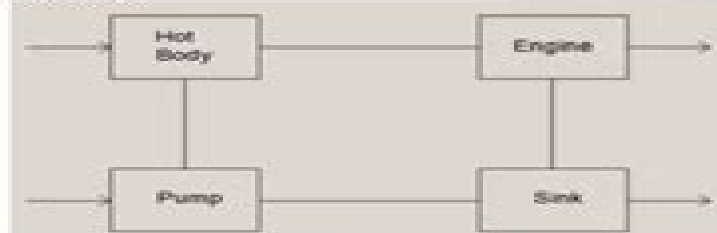


Note: Always show sketches for each problem on some convenient plane (Ts and pV). When using the Mollier chart, an hs sketch should be included. For the various isentropic processes, do not interpolate where two table values of entropy differ no more than 0.0005 Btu/lb-°R. A mass flow-energy diagram is particularly helpful when solving problems on the reheat-regenerative cycle and engine.

RANKINE CYCLE AND ENGINE

631. A thermodynamic cycle with elements as described in §9.1, Text, operates as follows: engine produces 22.4 kW; hot body supplies 4220 kJ/min; small pump (to circulate working substance) absorbs 2 kW. Sketch the system and calculate (a) the net work, (b) the heat rejected, and (c) the thermal efficiency.

Solution:



$$W_{\text{net}} = 22.4 \text{ kW}$$

$$W_p = 2 \text{ kW}$$

$$Q_h = 4220 \text{ kJ/min} = 70.33 \text{ kW}$$

(a) Net work

$$W_{\text{net}} = W_{\text{eng}} - W_p = 22.4 - 2 = 20.4 \text{ kW (answer)}$$

(b) Heat rejected

$$W_{\text{net}} = Q_h - Q_{\text{rej}}$$

$$20.4 = 70.33 - Q_{\text{rej}}$$

$$Q_{\text{rej}} = 70.33 - 20.4 = 49.93 \text{ kW (answer)}$$

(c) Thermal efficiency

$$e = \frac{W_{\text{net}}}{Q_h} = \frac{20.4 \text{ kW}}{70.33 \text{ kW}} \times 100\% = 29.0\% \text{ (answer)}$$

632. An experimental geothermal energy system in Baja, California consists of a hot water well, a flasher-separator-collector, and a 10,000-kW Rankine engine. The pressurized ground water at 172.4 bar, 282°C leaves the well to enter the flash chamber maintained at 13.8 bar ($h_f = 829$, $h_{fg} = 1961 \text{ kJ/kg}$). The flashed vapor passes through the separator and collector to enter the turbine as saturated vapor at 13.8 bar; the turbine exhausts at 1 bar. The unflashed water runs to waste. Find the hourly amount of ground water required for continuous operation. Use Table II for the compressed liquid state.

Solution:

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N Colangelo



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