

Exercícios 1ª Lei

(6ª ed. americana do Van Wylen-Serretas)

5.134

$$\begin{aligned}m_{A1} &= 0,5903 \text{ kg} \\m_{B1} &= 0,9695 \text{ kg} \\W_2 &= -264,8 \text{ kJ} \\Q_2 &= -484,7 \text{ kJ}\end{aligned}$$

5.138

$$\begin{aligned}W_2 &= 0 \\Q_2 &= -15,7 \text{ kJ}\end{aligned}$$

6.111

$$\begin{aligned}T_2 &= 410,0 \text{ K} \\m_2 &= 0,1275 \text{ kg}\end{aligned}$$

6.104

$$\begin{aligned}\dot{m} &= 13,78 \text{ kg/s} \\Q &= 13,1 \text{ MW}\end{aligned}$$

6.131

$$\begin{aligned}Q_{v.c.} &= 224,9 \text{ MJ} \\W_{v.c.} &= 8405 \text{ kJ}\end{aligned}$$

6.132

$$\left[C_w + \frac{1}{2} \frac{P_0 + P_2}{P_2} R \right] T_2 = (R + C_w) T_{limba}$$
$$T_2 = 773,7 \text{ K}$$