

1. Put answers for the following questions in the given boxes. Identify your system for all balances, but only list assumptions that are not given in the problem statement. No need to give basic equations for these questions.

- a) Saturated liquid water enters an orifice at a pressure of 100 psia and is throttle to a lower pressure of 20 psia. Determine the outlet temperature (F) and the specific entropy difference (Btu/lbm-R) between the outlet and inlet states. (Assume steady state, steady flow, negligible heat transfer and negligible changes in kinetic and potential energy.)



$$\left. \begin{aligned} h_2 &= h_1 = 298.6 \frac{\text{Btu}}{\text{lbm}} \\ P_2 &= 20 \text{ psia} \end{aligned} \right\} \Rightarrow 2\text{-phase @ exit}$$

$$T_2 = 227.96^\circ \text{F}$$

$$S_1 = S_{f,1} = 0.4744 \frac{\text{Btu}}{\text{lbm-R}}$$

$$S_2 = S_{f,2} + x_2 (S_{g,2} - S_{f,1})$$

$$= S_{f,2} + \frac{h_2 - h_{f,2}}{h_{g,2} - h_{f,2}} (S_{g,2} - S_{f,1})$$

$$= 0.3358 + \frac{298.6 - 196.26}{960.1} \times (1.7320 - 0.3358)$$

$$= 0.4846 \frac{\text{Btu}}{\text{lbm-R}}$$

$$\Delta S = 0.0102 \frac{\text{Btu}}{\text{lbm-R}}$$

$$\boxed{T_2 = 227.96^\circ \text{F}}$$

$$\boxed{S_2 - S_1 = 0.0102 \text{ Btu/lbm-R}}$$

- b) Repeat problem 1a for air treated as an ideal gas. (Assume a molecular weight for air of 28.97 lbm/lbmole)

$$\Delta h = 0 = \int C_p dT \Rightarrow T_2 = T_1 = 327.86^\circ \text{F}$$

$$\Delta S = \int C_p \frac{dT}{T} - \int R \frac{dP}{P} = -R \ln \frac{P_2}{P_1}$$

$$= -\frac{1.986}{28.97} \ln \frac{20}{100}$$

$$\Delta S = 0.11 \frac{\text{Btu}}{\text{lbm-R}}$$

$$\boxed{T_2 = 327.86^\circ \text{F}}$$

$$\boxed{S_2 - S_1 = 0.11 \text{ Btu/lbm-R}}$$

Thermodynamics Exam Questions And Solutions

V.J. Klenin



Thermodynamics Exam Questions And Solutions:

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graduate program The authors all students who have successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one Their book will be a valuable resource not only to other students but to college physics teachers as well The first four chapters pose problems in the areas of mechanics electricity and magnetism quantum mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses Later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics

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