

## 3.1 Solution

Given: initial gas volume =  $5.667 \times 10^{-3} \text{ m}^3$   
 initial gas temperature = 294.3 K  
 initial gas pressure = 10.13 bar  
 gas doubles in volume to  $1.133 \times 10^{-2} \text{ m}^3$   
 change in volume =  $5.667 \times 10^{-3} \text{ m}^3$

Choose, as the system, the universe or surroundings exclusive of the gas in the cylinder. Then, by the constraints given, including no friction in surroundings:

$$Q = 0$$

and

$$-W = P_a (V_f - V_i) + m_p g \Delta Z$$

where

$P_a$  = atmospheric pressure = 1.013 bar  
 $V_f - V_i$  = change in system volume =  $-5.667 \times 10^{-3} \text{ m}^3$   
 $m_p$  = mass of piston = 225 kg  
 $g$  = acceleration due to gravity = 9.81 m/s<sup>2</sup>  
 $\Delta Z$  = variation in vertical position of piston  
 = -0.3048 m if piston rises  
 = 0 if piston moves horizontally  
 = +0.3048 m if piston falls

Case 1: Piston rises (note 1 bar =  $10^5 \text{ N/m}^2$ )

$$W = -(1.013 \times 10^5) (-5.667 \times 10^{-3}) - (225) (9.81) (-0.3048) = +1.250 \text{ kJ}$$

$$\Delta E_{\text{univ}} = Q + W = 1.250 \text{ kJ} = -\Delta E_{\text{gas}} = -N_g C_v (T_f - T_i)$$

$$N_g = \text{moles of gas} = \frac{(10.13 \times 10^5) (5.667 \times 10^{-3})}{(8.314) (294.3)} = 2.346$$

$$C_v = 5 \text{ Btu/lb-mol } ^\circ\text{R} = 20.93 \text{ Btu/mol } ^\circ\text{K}$$

# Thermodynamics And Its Applications 3rd Edition Solution Manual

**Zhe Xu**



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objectives has been to develop competence and self confidence in handling challenging applications in new and sometimes  
unusual situations Half to two thirds of the contact hours are usually devoted to problem solving We have used a number of  
texts in conjunction with our graduate subject None were completely satisfactory We are convinced that a firm foundation in  
theory is essential for students who will be asked to fulfill the needs of tomorrow with an increasing demand for talents  
which are flexible and adaptable On the other hand the theory is useless unless the student can effectively bridge the gap  
between theory and application Thus we have attempted to develop a text with a rigorous theoretical and conceptual basis  
interspersed with a relatively large number of examples and solutions We have stressed to our students the desirability of  
working these examples before reviewing the solutions This text is intended to be a learning text rather than a teaching text  
It is our hope that students will attain a basic level of understanding of theory and rationale of applications in their formal  
use of this text such that deeper insights can be gained in a self instructional mode throughout their professional careers as  
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