# Thermodynamics for Engineers SI Edition 1st Edition Kroos Solutions Manual

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## Chapter 4 Solutions

- 4.1 (A) During compression and expansion, the air does not leave the volume so it is analyzed as a system, not a control volume.
- 4.2 (D) The other parts represent time-varying flows.
- 4.3 (B) When using this continuity equation, the area at Section 2 will be different than the area at Section 1. The diameter typically changes from section 1 to section 2
- 4.4 (D) We will use V to represent velocity in most problem solutions in this chapter, since the equation editor doesn't allow a different font. Since systems are not of interest in this chapter, the volume doesn't appear except in Section 4.3 on transient flows. Use Table C-3:

$$\rho_{-} \cancel{N} . V_{-} = \rho_{-} \cancel{N} . V_{-} = \frac{1}{0.07341} \frac{\text{kg}}{\text{m}^{3}} \times 40 = \frac{1}{0.114} \frac{\text{kg}}{\text{m}^{3}} \times V_{2} - ... V_{2} = 62.1 \text{ m/s}$$

4.5 (A) Put all distances in meters to be safe. Then

$$AV = AV$$
.  $(\pi \times 0.01^{\circ}) \times 20 = (2\pi \times 0.1 \times 0.002) \times V$ .  $-V = 5 \text{ m/s}$ 

**4.6** (C) The pump work  $W_{ij}$  is related to the shaft work by  $v_{ij} = -W_{ij}$ . With no losses, the WELL

temperature remains unchanged so the internal energy change is zero and Eq. 4.18 provides response (C).

4.7 (B) Eq. 4.19 simplifies to  $0 = -h + \frac{V_2^2 - V_1^2}{2}$ . Using h - h = C(T - T).

$$T - T = \frac{V_c^2 - V_c^2}{2C_c} = \frac{(180^2 - 20^2) \text{ m}^2 / \text{s}^2}{2 \times 1000 \text{ J/kg} \cdot \text{°C}} = \frac{16 \text{°C}}{2}$$

where we used C=1000 J/kg- C. Recall that the units convert as

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Morris Hein, Susan Arena, Cary Willard

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and are rarely accounted for in traditional economic systems. The failure to appropriately consider the full economic value of ecosystem services in decision making enables the continued degradation and loss of ecosystems and biodiversity Most ecosystem services are considered public goods and tend to be overexploited by society Many methods have been applied to the economic valuation of ecosystem services The use of these methods as well as the interpretation of their results requires familiarity with the ecological political normative and socio economic context and the science of economics Recognizing demonstrating and capturing the value of ecosystem services can play an important role in setting policy directions for ecosystem management and conservation and thus in increasing the provision of ecosystem services and their contributions to human well being The aim of this manual is to enhance understanding of ecosystem services and their valuation The specific target group comprises governmental officers in planning units and field level officers and practitioners in key government departments in Bangladesh responsible for project development including the Ministry of Environment and Forests and its agencies Most of the examples and case studies presented herein therefore are tailored to the Bangladesh context but the general concepts approaches and methods can be applied to a broad spectrum of situations This manual focuses on valuing forest related ecosystem services including those provided by trees outside forests It is expected to improve valuation efforts and help ensure the better use of such values in policymaking and decision making Among other things the manual explores the basics of financial mathematics e g the time value of money discounting cost benefit analysis and profitability and risk indicators the main methods of economic valuation examples of the valuation of selected ecosystem services and inputs for considering values in decision making **Solutions Manual for Principles of Physical** 

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