# Chapter 2

2.1

a) Overall mass balance:

$$\frac{d(pV)}{dt} = w_1 + w_2 - w_3 \qquad (1)$$

Energy balance:

$$C\frac{d\left[\rho V(T_1-T_{ref})\right]}{dt} = w_i C(T_1-T_{ref}) + w_2 C(T_2-T_{ref})$$

$$-w_i C\left(T_1-T_{ref}\right)$$
(2)

Because p = constant and  $V = \overline{V} = constant$ , Eq. 1 becomes:

$$w_3 = w_1 + w_2 \tag{3}$$

From Eq. 2, substituting Eq. 3

$$\rho C \overline{V} \frac{d(T_3 - T_{ref})}{dt} = \rho C \overline{V} \frac{dT_3}{dt} = w_i C(T_i - T_{ref}) + w_2 C(T_3 - T_{ref}) \\ - (w_i + w_2) C(T_3 - T_{ref})$$
(4)

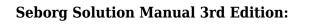
Constants C and  $T_{ref}$  can be cancelled:

$$\rho \overline{V} \frac{dT_1}{dt} = w_1 T_1 + w_2 T_2 - (w_1 + w_2) T_3$$
 (5)

The simplified model now consists only of Eq. 5.

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# **Table of Contents Seborg Solution Manual 3rd Edition**

- 1. Understanding the eBook Seborg Solution Manual 3rd Edition
  - The Rise of Digital Reading Seborg Solution Manual 3rd Edition
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Seborg Solution Manual 3rd Edition
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Seborg Solution Manual 3rd Edition
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Seborg Solution Manual 3rd Edition
  - Personalized Recommendations
  - Seborg Solution Manual 3rd Edition User Reviews and Ratings
  - Seborg Solution Manual 3rd Edition and Bestseller Lists

- 5. Accessing Seborg Solution Manual 3rd Edition Free and Paid eBooks
  - Seborg Solution Manual 3rd Edition Public Domain eBooks
  - Seborg Solution Manual 3rd Edition eBook Subscription Services
  - Seborg Solution Manual 3rd Edition Budget-Friendly Options
- 6. Navigating Seborg Solution Manual 3rd Edition eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Seborg Solution Manual 3rd Edition Compatibility with Devices
  - Seborg Solution Manual 3rd Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Seborg Solution Manual 3rd Edition
  - Highlighting and Note-Taking Seborg Solution Manual 3rd Edition
  - Interactive Elements Seborg Solution Manual 3rd Edition
- 8. Staying Engaged with Seborg Solution Manual 3rd Edition
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Seborg Solution Manual 3rd Edition
- 9. Balancing eBooks and Physical Books Seborg Solution Manual 3rd Edition
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Seborg Solution Manual 3rd Edition
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Seborg Solution Manual 3rd Edition
  - Setting Reading Goals Seborg Solution Manual 3rd Edition
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Seborg Solution Manual 3rd Edition
  - Fact-Checking eBook Content of Seborg Solution Manual 3rd Edition
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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