

Chapter 4

4-1

$$T_{\infty} = T_m + A_m \sin \omega \tau$$

$$\text{Energy balance: } q = hA(T - T_{\infty}) = \rho c V \left(\frac{dT}{d\tau} \right)$$

Let $K = \frac{hA}{\rho c V}$ along with initial condition $T = T_0$ at $\tau = 0$;

Solution is:

$$T - T_m = (T_0 - T_m)e^{-K\tau} + \left(\frac{KA_m}{\omega^2 + K^2} \right) [\omega(e^{-K\tau} - \cos \omega \tau) + K \sin \omega \tau]$$

4-2

$$\alpha = 1.8 \times 10^{-6} \text{ m}^2/\text{sec}$$

$$2L = 2.5 \text{ cm}$$

$$T_i = 150^\circ\text{C}$$

$$T_f = 30^\circ\text{C}$$

$$\tau = 1 \text{ min} = 60 \text{ sec} \quad \frac{\pi x}{2L} = \frac{\pi}{2}; \left(\frac{\pi}{2L} \right)^2 \alpha \tau = 1.705$$

1st four nonzero terms $n = 1, 3, 5, 7$

$$\frac{T - T_f}{T_i - T_f} = \frac{4}{\pi} [0.1818 - 7.22 \times 10^{-8} + 6.15 \times 10^{-28}] = 0.231$$

$$T = 30 + (0.231)(150 - 30) = 57.8^\circ\text{C}$$

$$\frac{\alpha \tau}{L^2} = 0.69$$

$$\frac{\theta_0}{\theta_i} = 0.25$$

4-3

$$\text{at } \tau = 0 \quad \frac{x}{2L} = \frac{1}{2} \quad \frac{\pi x}{2L} = \frac{\pi}{2}$$

$$\frac{T - T_f}{T_i - T_f} = \frac{4}{\pi} \left(\sin \frac{\pi}{2} + \frac{1}{3} \sin \frac{3\pi}{2} + \frac{1}{5} \sin \frac{5\pi}{2} + \frac{1}{7} \sin \frac{7\pi}{2} \right) = 0.9216$$

correct value is 1.0 Error = 7.84%

4-4

$$q = \sigma A(T^4 - T_{\infty}^4) + hA(T - T_{\infty}) = -c\rho V \frac{dT}{d\tau}$$

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Table of Contents Heat Transfer Jp Holman Solution Manual

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

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 - Heat Transfer Jp Holman Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heat Transfer Jp Holman Solution Manual
 - Highlighting and Note-Taking Heat Transfer Jp Holman Solution Manual
 - Interactive Elements Heat Transfer Jp Holman Solution Manual
- 8. Staying Engaged with Heat Transfer Jp Holman Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heat Transfer Jp Holman Solution Manual
- 9. Balancing eBooks and Physical Books Heat Transfer Jp Holman Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heat Transfer Jp Holman Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Heat Transfer Jp Holman Solution Manual
 - Setting Reading Goals Heat Transfer Jp Holman Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Heat Transfer Jp Holman Solution Manual
 - Fact-Checking eBook Content of Heat Transfer Jp Holman Solution Manual
 - 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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