

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

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

Jp Holman Heat Transfer 10th Edition Solutions Manual

L Reisser



Jp Holman Heat Transfer 10th Edition Solutions Manual:

Jp Holman Heat Transfer 10th Edition Solutions Manual Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Jp Holman Heat Transfer 10th Edition Solutions Manual**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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