

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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Heat Transfer Jack Philip Holman, 1990 *Solutions Manual to Accompany Heat Transfer, Seventh Edition* Jack Philip Holman, 1990

Fluid Power Engineering Clifford Robert Burrows, Kevin A. Edge, 1998 A report on the International Fluid Power Workshop held at the University of Bath 10 12th September 1997 This text is comprised of 25 papers authored by researchers in the field and covering a wide range of topics with particular emphasis on hydraulic systems their simulation and control

Solutions Manual to Accompany Heat Transfer Jack Phillip Holman, 1972

Books in Print Supplement, 1982

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The Publishers' Trade List Annual, 1985

Forthcoming Books Rose Arny, 1981

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 - Chapter 4: Jp Holman Heat Transfer 10th Edition Solutions Manual in Specific Contexts
 - Chapter 5: Conclusion
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