

- 1.21 The data presented in Example 1.4 in conjunction with the apparatus of Figure 1.11 allowed for finding a convective heat-transfer coefficient. The film coefficient calculated is the one defined in Newton's Law of Cooling. Suppose that we use a different definition for a convective heat-transfer coefficient. Specifically, where T_{wall} is the wall temperature at the inlet, T_{out} is the wall temperature at location 2, T_{in} is the bulk fluid temperature at the inlet, and $T_{\text{2,b}}$ is the bulk fluid temperature at location 2. With the data of Example 1.4, determine the film coefficient \bar{h}_x . Is there any advantage of using this definition over the alternative?

Solution:

$$\dot{m} = 0.3 \text{ kg/s} \quad c_p = 0.2 \times 10^3 \text{ J/(kg}\cdot\text{K)} \quad T_{\text{wall}} = T_{\text{in}} = T_{\text{out}} = 75^\circ\text{C} = \text{constant wall temp.} \\ T_{\text{in}} = 21.4^\circ\text{C} \quad T_{\text{out}} = 20^\circ\text{C} \quad D = 0.025 \text{ m} \quad L = 0.2 \text{ m}$$

$$\dot{q} = \bar{h}_x A [(T_{\text{wall}} - T_{\text{in}}) + (T_{\text{out}} - T_{\text{in}})]$$

$$\dot{m} c_p (T_{\text{out}} - T_{\text{in}}) = \bar{h}_x A [(T_{\text{wall}} - T_{\text{in}}) + (T_{\text{out}} - T_{\text{in}})] \quad \text{Solving,}$$

$$\bar{h}_x = \frac{\dot{m} c_p (T_{\text{out}} - T_{\text{in}})}{A [(T_{\text{wall}} - T_{\text{in}}) + (T_{\text{out}} - T_{\text{in}})]}$$

$$\bar{h}_x = \frac{2(0.3)(0.200)(21.4 - 20)}{\pi(0.025)(0.2)[(75 - 21.4) + (21.4 - 20)]}$$

$$\boxed{\bar{h}_x = 3.546 \text{ W/(m}^2\cdot\text{K)}}$$

This coefficient does not require more temperatures to be measured than is more cumbersome to use than the other.

Janna Heat Transfer Solution Manual

Rachel S Tattersall



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an evidence chart as a pre-writing activity. Teachers should ... Answer: Tasks and answers available in the anthology on page 137. • After ... Yamaha TDM900 Service Manual 2002 2004 manuale di ... Manuale di assistenza per moto per l'elemento a Yamaha TDM900 Service Manual 2002 2004, gratis! Yamaha TDM 900 Service Manual | PDF | Throttle Remove: S fuel tank Refer to FUEL TANK. S air filter case Refer to AIR FILTER CASE. 3. Adjust: S throttle cable free play NOTE: When the throttle is opened, the ... Yamaha Tdm 900 2002 2005 Manuale Servizio Rip Apr 25, 2013 — Read Yamaha Tdm 900 2002 2005 Manuale Servizio Rip by Nickie Frith on Issuu and browse thousands of other publications on our platform. Manuale Officina ITA Yamaha TDM 900 2002 al 2014 Oct 8, 2023 — Manuale Officina ITA Yamaha TDM 900 2002 al 2014. Padova (PD). 12 €. T ... Scarica gratis l'App. Subito per Android · Subito per iOS. © 2023 ... Yamaha tdm 900 2001 2003 Manuale di riparazione Top 12 ricerche: ico scoalasoferigalat honda yamaha suzuki manual i aprilia manuale officina cmx 250 Virago 535 suzuki dr600 ford . Scegli la lingua: Rumeno. Manuali Kit montaggio GIVI x TDM850 · Kit montaggio GIVI x TDM900. Istruzioni per il montaggio di tutti i supporti GIVI per il TDM850 e 900 (PDF da 3 e da 6 Mb). MANUALE OFFICINA IN ITALIANO YAMAHA TDM 900 2002 Le migliori offerte per MANUALE OFFICINA IN ITALIANO YAMAHA TDM 900 2002 - 2014 sono su eBay ☐ Confronta prezzi e caratteristiche di prodotti nuovi e usati ... Yamaha TDM850'99 4TX-AE3 Service Manual View and Download Yamaha TDM850'99 4TX-AE3 service manual online. TDM850'99 4TX-AE3 motorcycle pdf manual download. Also for: Tdm850 1999.