A very small shear stress, but it has a profound effect on the flow pattern.

(b) The variation of shear stress across the boundary layer is a cosine wave, $\tau = \mu (du/dy)$:

$$\tau(y) = \frac{\pi \mu U}{2\delta} \cos(\frac{\pi y}{2\delta}) = \tau_w \cos(\frac{\pi y}{2\delta}) = \frac{\tau_w}{2} \text{ when } \frac{\pi y}{2\delta} = \frac{\pi}{3} \text{ , or : } \mathbf{y} = \frac{2\delta}{3} \text{ Ans.(b)}$$

1.57 The belt in Fig. P1.57 moves at steady velocity V and skims the top of a tank of oil of viscosity μ. Assuming a linear velocity profile, develop a simple formula for the belt-drive power P required as a function of (h, L, V, B, μ). Neglect air drag. What power P in watts is required if the belt moves at 2.5 m/s over SAE 30W oil at 20°C, with L = 2 m, b = 60 cm, and h = 3 cm?



Fig. P1.57

Solution: The power is the viscous resisting force times the belt velocity:

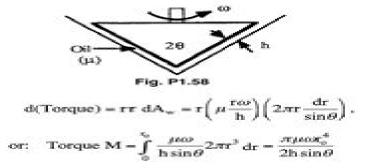
$$P = r_{oll}A_{belt}V_{belt} = \left(\mu \frac{V}{h}\right)(bL)V = \mu V^2 b \frac{L}{h}$$
 Ans.

(b) For SAE 30W oil, $\mu = 0.29$ kg/m·s. Then, for the given belt parameters,

$$P = \mu V^2 b L / h = \left(0.29 \frac{\text{kg}}{\text{m} \cdot \text{s}} \right) \left(2.5 \frac{\text{m}}{\text{s}} \right)^2 (0.6 \text{ m}) \frac{2.0 \text{ m}}{0.03 \text{ m}} = 73 \frac{\text{kg} \cdot \text{m}^2}{\text{s}^3} = 73 \text{ W} \quad Ans. \text{ (b)}$$

1.58* A solid cone of base r₀ and initial angular velocity ω₀ is rotating inside a conical seat. Neglect air drag and derive a formula for the cone's angular velocity ω(t) if there is no applied torque.

Solution: At any radial position $r < r_0$ on the cone surface and instantaneous rate ω_0



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Wenbin Ji

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