

Fig. 1-16

1.94 In Fig. 1-17a, oil of viscosity μ fills the small gap of thickness Y. Determine an expression for the torque T required to rotate the truncated cone at constant speed ω. Neglect fluid stress exerted on the circular bottom.

See Fig. 1-17b. $\tau = \mu (dv/dy)$, $v = r\omega = (y \tan \alpha)(\omega)$, $dv/dy = (y \tan \alpha)(\omega)/Y$.

$$\tau = \mu \left[\frac{(y \tan \alpha)(\omega)}{Y} \right] = \frac{\mu y \omega \tan \alpha}{Y}$$

$$dA = 2\pi r ds = 2\pi (y \tan \alpha)(dy/\cos \alpha) = 2\pi y (\tan \alpha/\cos \alpha)(dy)$$

$$dF = \tau dA = \left(\frac{\mu y \omega \tan \alpha}{Y} \right) \left[2\pi y \left(\frac{\tan \alpha}{\cos \alpha} \right)(dy) \right] = \left(\frac{2\pi \mu \omega \tan^2 \alpha}{Y \cos \alpha} \right) y^2 dy$$

$$dT = r dF = (y \tan \alpha) \left(\frac{2\pi \mu \omega \tan^2 \alpha}{Y \cos \alpha} \right) y^2 dy = \left(\frac{2\pi \mu \omega \tan^3 \alpha}{Y \cos \alpha} \right) y^3 dy$$

$$T = \int_a^{\pi + b} \left(\frac{2\pi \mu \omega \tan^2 \alpha}{Y \cos \alpha} \right) y^3 dy = \left(\frac{2\pi \mu \omega \tan^3 \alpha}{Y \cos \alpha} \right) \left[\frac{(a + b)^4}{4} - \frac{a^4}{4} \right]$$

$$= \left(\frac{\pi \mu \omega \tan^2 \alpha}{2Y \cos \alpha} \right) [(a + b)^4 - a^4]$$

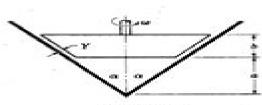


Fig. 1-17(a)

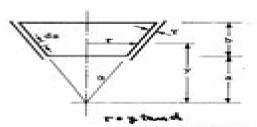


Fig. 1-17(4)

- 1.95 A Newtonian fluid fills the gap between a shaft and a concentric sleeve. When a force of 788 N is applied to the sleeve parallel to the shaft, the sleeve attains a speed of 2 m/s. If a 1400-N force is applied, what speed will the sleeve attain? The temperature of the sleeve remains constant.
 - $T = F/A = \mu (dv/dx)$; $F/dv = \mu A/dx = \text{constant}$. Therefore, $F_1/dv_1 = F_2/dv_2$, $\frac{2m}{2} = 1400/dv_2$, $dv_2 = 3.55$ m/s.
- 1.96 A plate separated by 0.5 mm from a fixed plate moves at 0.50 m/s under a force per unit area of 4.0 N/m². Determine the viscosity of the fluid between the plates.
 - $\tau = \mu (dv/dx)$ 4.0 μ [0.50/(0.0005)] μ = 0.00400 N · s/m² = 4.00 mPa · s
- 1.97 Determine the viscosity of fluid between shaft and sleeve in Fig. 1-18.
 - $T = F/A = \mu \left(\frac{dv}{dx} \right) \qquad 25/[(\pi)(\frac{h}{h})(\frac{h}{h})] = \mu \left[0.5/(0.004/12) \right] \qquad \mu = 0.0212 \text{ ib} \cdot \text{s/ft}^2$



Fig. 1-18

Fluid Mechanics Hydraulics Solved Problems

Amithirigala Widhanelage Jayawardena

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