

1.11

$$a) \quad (v) = \left( \frac{\mu}{\rho} \right) = \frac{(M)}{(L)(t)} \frac{(L^3)}{(M)} = \frac{(L^2)}{(t)}$$

b)

$$\mu = 2.11 \times 10^{-3} \frac{\text{lb} \cdot \text{sec}}{\text{ft}^2}$$

$$v = \frac{2.11 \times 10^{-3} \frac{\text{lb} \cdot \text{sec}}{\text{ft}^2}}{1.94 \frac{\text{slugs}}{\text{ft}^3}}$$

$$= \frac{(2.11 \times 10^{-3}) \frac{\text{lb} \cdot \text{sec}}{\text{ft}^2}}{1.94 \frac{\text{slugs}}{\text{ft}^3} \left( \frac{\text{lb}/\text{ft}/\text{sec}^2}{1 \text{ slug}} \right)}$$

$$= 1.088 \times 10^{-3} \frac{\text{ft}^2}{\text{sec}}$$

c)

$$1 \text{ stoke} = \frac{1 \text{ cm}^2}{\text{sec}} = \frac{1(0.01\text{m})^2}{\text{sec}}$$

$$= \left[ 0.01\text{m} \left( \frac{3.28 \text{ ft}}{1 \text{ m}} \right) \right]^2 \frac{1}{\text{sec}}$$

$$= .001076 \frac{\text{ft}^2}{\text{sec}}$$

$\therefore$  For water

$$v = .010113 \text{ stokes}$$



1.12

$$V = \frac{\beta}{4\mu} \left( \frac{D^2}{4} - r^2 \right)$$

$$\tau_w = \mu \left( \frac{\partial V}{\partial r} \right)_{r=\frac{D}{2}} = \mu \frac{\beta}{4\mu} (-2r) \Big|_{r=\frac{D}{2}}$$

$$a) \quad \tau_w = - \frac{\beta D}{4}$$

$$b) \quad \text{at } r = \frac{D}{4}$$

$$\tau = \frac{\beta}{4} \left( -2 \frac{D}{4} \right) = - \frac{\beta D}{8}$$

c)

$$\text{Drag} = \tau_w (\pi)(D)(L)$$

$$= \frac{\beta D}{4} (\pi)(D)(L)$$

$$= \frac{\beta D^2 \pi L}{4}$$

A large plate moves with speed  $V_0$  over a medium. The plate is a layer of oil. If the velocity profile is that of a parabola, with the oil on the plate having the same velocity as the plate, what is the shear stress on the moving plate from the oil? If a linear profile is assumed, what is then the shear stress on the upper plate?

1.13 a) For a parabolic profile

$$V^2 = ay$$

When  $y = d$ ,  $V = V_0$ . Hence:

$$V_0^2 = ad$$

$$a = \frac{V_0^2}{d}$$



Hence:

$$V^2 = V_0^2 \left( \frac{y}{d} \right) \quad \therefore V = V_0 \sqrt{\frac{y}{d}}$$

$$\tau_w = \mu \left( \frac{\partial V}{\partial y} \right)_{y=d} = \mu V_0 \frac{1}{\sqrt{d}} \frac{1}{2} (y^{-1/2})_{y=d}$$

$$(\tau_w)_s = \frac{\mu V_0}{2d}$$

b) For a linear profile:

$$(\tau_w)_s = \mu \left( \frac{V_0}{d} \right)$$

# Solutions Manual Of Fluid Mechanics Shames

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