2.36

Situation:

Laminar flow occurs between two horizontal parallel plates. The velocity distribution is

$$u = -\frac{1}{2\mu} \frac{dp}{ds} (Hy - y^2) + u_t \frac{y}{H}$$

Pressure p decreases with distance s, and the speed of the upper plate is u_t . Note that u_t has a negative value to represent that the upper plate is moving to the left.

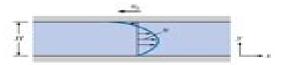
Moving plate: y = H.

Stationary plate: y = 0.

Find:

- (a) Whether shear stress is greatest at the moving or stationary plate.
- (b) Location of zero shear stress.
- (c) Derive an expression for plate speed to make the shear stress zero at y = 0.

Sketch:



PLAN

By inspection, the rate of strain (du/dy) or slope of the velocity profile is larger at the moving plate. Thus, we expect shear stress τ to be larger at y = H. To check this idea, find shear stress using the definition of viscosity: $\tau = \mu (du/dy)$. Evaluate and compare the shear stress at the locations y = H and y = 0.

SOLUTION

Part (a)

Shear stress, from definition of viscosity

$$\tau = \mu \frac{du}{dy}$$

$$= \mu \frac{d}{dy} \left[-\frac{1}{2\mu} \frac{dp}{ds} (Hy - y^2) + u_t \frac{y}{H} \right]$$

$$= \mu \left[-\frac{H}{2\mu} \frac{dp}{ds} + \frac{y}{\mu} \frac{dp}{ds} + \frac{u_t}{H} \right]$$

$$\tau (y) = -\frac{(H - 2y)}{2} \frac{dp}{ds} + \frac{\mu u_t}{H}$$

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