

2.36Situation:

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

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

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

Moving plate: $y = H$.

Stationary plate: $y = 0$.

Find:

- Whether shear stress is greatest at the moving or stationary plate.
- Location of zero shear stress.
- 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

$$\begin{aligned} \tau &= \mu \frac{du}{dy} \\ &= \mu \frac{d}{dy} \left[-\frac{1}{2\mu} \frac{dp}{ds} (Hy - y^2) + u_e \frac{y}{H} \right] \\ &= \mu \left[-\frac{H}{2\mu} \frac{dp}{ds} + \frac{y}{\mu} \frac{dp}{ds} + \frac{u_e}{H} \right] \\ \tau(y) &= -\frac{(H - 2y)}{2} \frac{dp}{ds} + \frac{\mu u_e}{H} \end{aligned}$$

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 - The Rise of Digital Reading Engineering Fluid Mechanics 10th Edition Solutions Manual Elger
 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Fluid Mechanics 10th Edition Solutions Manual Elger
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Fluid Mechanics 10th Edition Solutions Manual Elger

- Personalized Recommendations
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Fluid Mechanics 10th Edition Solutions Manual Elger
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Engineering Fluid Mechanics 10th Edition Solutions Manual Elger
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Engineering Fluid Mechanics 10th Edition Solutions Manual Elger

- Fact-Checking eBook Content of Engineering Fluid Mechanics 10th Edition Solutions Manual Elger
- Distinguishing Credible Sources

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- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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