

2.36

Situation:

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

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

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  $\tau$  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)

1. Shear stress, from definition of viscosity

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

# Engineering Fluid Mechanics 10th Problems With Solutions

**Donald F. Elger, Clayton T. Crowe, John  
A. Roberson, Barbara C. Williams**

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*Fluid Mechanics for Engineers* Meinhard T. Schobeiri, 2010-03-27 The contents of this book covers the material required in the Fluid Mechanics Graduate Core Course MEEN 621 and in Advanced Fluid Mechanics a Ph D level elective course MEEN 622 both of which I have been teaching at Texas A M University for the past two decades While there are numerous undergraduate fluid mechanics texts on the market for engineering students and instructors to choose from there are only limited texts that comprehensively address the particular needs of graduate engineering fluid mechanics courses To complement the lecture materials the instructors more often recommend several texts each of which treats special topics of fluid mechanics This circumstance and the need to have a textbook that covers the materials needed in the above courses gave the impetus to provide the graduate engineering community with a coherent textbook that comprehensively addresses their needs for an advanced fluid mechanics text Although this text book is primarily aimed at mechanical engineering students it is equally suitable for aerospace engineering civil engineering other engineering disciplines and especially those practicing professionals who perform CFD simulation on a routine basis and would like to know more about the underlying physics of the commercial codes they use Furthermore it is suitable for self study provided that the reader has a sufficient knowledge of calculus and differential equations In the past because of the lack of advanced computational capability the subject of fluid mechanics was artificially subdivided into inviscid viscous laminar turbulent incompressible compressible subsonic supersonic and hypersonic flows    [A Brief Introduction to Fluid Mechanics](#) Donald F. Young, Bruce R.

Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-11-23 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today s student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles    [Scientific and Technical Aerospace Reports](#) , 1966

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## **Table of Contents Engineering Fluid Mechanics 10th Problems With Solutions**

1. Understanding the eBook Engineering Fluid Mechanics 10th Problems With Solutions
  - The Rise of Digital Reading Engineering Fluid Mechanics 10th Problems With Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Fluid Mechanics 10th Problems With Solutions
  - 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 Problems With Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Fluid Mechanics 10th Problems With Solutions
  - Personalized Recommendations
  - Engineering Fluid Mechanics 10th Problems With Solutions User Reviews and Ratings
  - Engineering Fluid Mechanics 10th Problems With Solutions and Bestseller Lists
5. Accessing Engineering Fluid Mechanics 10th Problems With Solutions Free and Paid eBooks
  - Engineering Fluid Mechanics 10th Problems With Solutions Public Domain eBooks
  - Engineering Fluid Mechanics 10th Problems With Solutions eBook Subscription Services
  - Engineering Fluid Mechanics 10th Problems With Solutions Budget-Friendly Options

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  - ePUB, PDF, MOBI, and More
  - Engineering Fluid Mechanics 10th Problems With Solutions Compatibility with Devices
  - Engineering Fluid Mechanics 10th Problems With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Fluid Mechanics 10th Problems With Solutions
  - Highlighting and Note-Taking Engineering Fluid Mechanics 10th Problems With Solutions
  - Interactive Elements Engineering Fluid Mechanics 10th Problems With Solutions
8. Staying Engaged with Engineering Fluid Mechanics 10th Problems With Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Fluid Mechanics 10th Problems With Solutions
9. Balancing eBooks and Physical Books Engineering Fluid Mechanics 10th Problems With Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Fluid Mechanics 10th Problems With Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Fluid Mechanics 10th Problems With Solutions
  - Setting Reading Goals Engineering Fluid Mechanics 10th Problems With Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Fluid Mechanics 10th Problems With Solutions
  - Fact-Checking eBook Content of Engineering Fluid Mechanics 10th Problems With Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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