

# Fluid Mechanics: Wk 1

## Solving for Force/velocity/pressure unknowns

- **Linear Momentum Equation**

1. Select Control Volume, assign appropriate axes



2. Form continuity equations (steady mass flow rate, velocity in terms of basis vectors)



### Continuity Equation

$$\rho_2 A_2 v_2 = \rho_2 A_1 v_1$$

Same, incompressible, fluid so rho drops out!

$$A_1 v_1 = A_2 v_2$$

3. Based on what unknowns there are, apply different equations

- Unknown pressure/velocity: *Bernoulli's Eqn or Mass flow* ( $A_1 V_1 = A_2 V_2$ )

$$p_1 + \frac{\rho V_1^2}{2} + \rho g z_1 = p_2 + \frac{\rho V_2^2}{2} + \rho g z_2$$

- Unknown force: *Linear momentum Equation*

$$\sum F_y = \sum (\dot{m} V_y)_{out} - \sum (\dot{m} V_y)_{in}$$

(Eqb net forces is equal to the diff. In mass flow rates x velocity @ inlet and outlet)

- LHS (Sum of  $F_y$ ) = Add up **separate forces in FBD**

# Fluid Mechanics Study Guide

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## **Table of Contents Fluid Mechanics Study Guide**

1. Understanding the eBook Fluid Mechanics Study Guide
  - The Rise of Digital Reading Fluid Mechanics Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Fluid Mechanics Study Guide
  - 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 Fluid Mechanics Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fluid Mechanics Study Guide
  - Personalized Recommendations
  - Fluid Mechanics Study Guide User Reviews and Ratings
  - Fluid Mechanics Study Guide and Bestseller Lists
5. Accessing Fluid Mechanics Study Guide Free and Paid eBooks

- Fluid Mechanics Study Guide Public Domain eBooks
- Fluid Mechanics Study Guide eBook Subscription Services
- Fluid Mechanics Study Guide Budget-Friendly Options
- 6. Navigating Fluid Mechanics Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Fluid Mechanics Study Guide Compatibility with Devices
  - Fluid Mechanics Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fluid Mechanics Study Guide
  - Highlighting and Note-Taking Fluid Mechanics Study Guide
  - Interactive Elements Fluid Mechanics Study Guide
- 8. Staying Engaged with Fluid Mechanics Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fluid Mechanics Study Guide
- 9. Balancing eBooks and Physical Books Fluid Mechanics Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fluid Mechanics Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Fluid Mechanics Study Guide
  - Setting Reading Goals Fluid Mechanics Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fluid Mechanics Study Guide
  - Fact-Checking eBook Content of Fluid Mechanics Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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