

# 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

**Robert R. Redfield**



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