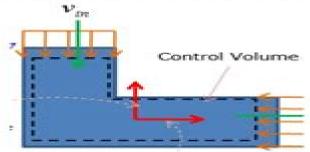
### Fluid Mechanics: Wk 1

#### 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)



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

Same, incompressable, fluid so roe 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:V: = A:V:)

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

Unknown force: Linear momentum Equation

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

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

LHS (Sum of F<sub>v</sub>) = Add up separate forces in FBD

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Dr. Ben Hirst Performance Training Systems, lafc

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