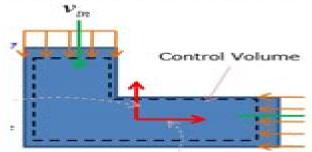
Fluid Mechanics: Wk 1

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

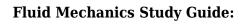
$$\sum F_{y} = \sum (\dot{m}V_{y})_{out} - \sum (\dot{m}V_{y})_{in}$$

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

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

Fluid Mechanics Study Guide

Thomas Griffiths



Unveiling the Magic of Words: A Report on "Fluid Mechanics Study Guide"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually aweinspiring. Enter the realm of "**Fluid Mechanics Study Guide**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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