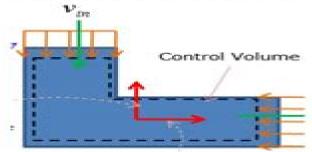
Fluid Mechanics: Wk 1

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 Answers

L Towne

Fluid Mechanics Study Guide Answers:

Fluid Mechanics Study Guide Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Fluid Mechanics Study Guide Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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