

Fluid Mechanics Problems Solutions

~~CHAPTER 3 PRESSURE AND
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Compound manometer example
problem Continuity Equation, Volume
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Inclined Plane

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Pressure and Depth in a Static Fluid
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6) Bernoulli's Equation Example
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acceleration due to gravity is 10 ms^{-2} ,
what is the speed of water through that
hole? Known : Height (h) = $85 \text{ cm} -$
 $40 \text{ cm} = 45 \text{ cm} = 0.45 \text{ meters}$.

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problem (a) is straightforward.

Integrating twice gives $u = \frac{c}{2} y^2 + \frac{c}{2} y^2 + 12$

Ay (1.10) Finding the ...

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Consider a steady, incompressible

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boundary layer with thickness, $\delta(x)$, that develops on a flat plate with leading edge at $x = 0$. Based on a control volume analysis for the dashed box, answer the following: a) Provide an expression for the mass flux \dot{m} based on ρ , V , and δ .

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Control Volume, Mass Conservation :
Anderson. Sections 2.3-2.4. Problem
F6 Solution F6 : F7

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Example 30 In the pipe system depicted below, the discharge in pipe AB is $100 \text{ m}^3/\text{sec}$. Branch 1 is 500 m long, and it has a diameter of 2 m and a friction factor of 0.018 . Branch 2 has a length

of 400 m, diameter of 3 m, and a friction factor of 0.02.

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Solution The pressure in a tank is measured with a manometer by

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Assumptions The fluid in the

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pressure of blood between the brain and the soles of the feet of a person whose height 165 cm (suppose the density of blood = $1.0 \times 10^3 \text{ kg/m}^3$, acceleration due to gravity = 10 m/s^2)

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1. Consider a steady, incompressible boundary layer with thickness, $\delta(x)$, that develops on a flat plate with leading edge at $x = 0$.

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For theory relevant to the fluid mechanics and momentum transfer problems below, please refer to the following books: Bird, R. B.,

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Stewart, W. E., and Lightfoot,
E. N ...

Fluid Mechanics Problems for
Qualifying Exam (Fall 2014)

1. Consider a steady,

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incompressible boundary layer with thickness, $\delta(x)$, that develops on a flat plate with leading edge at $x = 0$. Based on a control volume analysis for the dashed box, answer the following: a)

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Provide an expression for the mass flux \dot{m} based on ρ , V , and A .

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Dynamics : Basic Equations,
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incompressible flow, Compressible
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