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solutions. Torricelli ' s theorem. 1.
A container filled with water and

there is a hole, as shown in the figure below. If 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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FLUID STATICS

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1.7. Problem F4 Solution F4 : F5:
Reynolds and Mach Number :

Anderson. Sections 1.10, 1.11.
Problem F5 Solution F5 : F6:
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problems. Solution: a. The solution of problem (a) is straightforward. Integrating twice gives $y = \frac{1}{2} \omega^2 x^2 + C_1 x + C_2$ (1.10) Finding the ...

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... Solution The pressure in a tank is measured with a manometer by measuring the differential height of the manometer fluid. The absolute pressure in the

tank is to be determined for two cases: the manometer arm with the (a) higher and (b) lower fluid level being attached to the tank. Assumptions The fluid in the manometer is incompressible.

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Example 30 In the pipe system depicted below, the discharge in pipe A 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.

Fluid Mechanics Problems
Solutions

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

Solutions To Problems In Fluid Mechanics [EBOOK]

Fluid statics – problems and solutions. Liquid pressure. 1. What is the difference between the hydrostatic pressure of blood between the brain and the sole 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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