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Fluid dynamics - problems and 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<sup>-2</sup>, what is the speed of water through that hole? Known : Height (h) = 85 cm - 40 cm = 45 cm = 0.45 meters.

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Example 30 Inthepipesystemdepictedbelow,thedischarginpipeABis100 m<sup>3</sup>/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.

~~Practice Problems for FE Fluid Mechanics~~

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.

~~CHAPTER 3 PRESSURE AND FLUID STATICS~~

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Fluid statics – problems and solutions. Liquid pressure. 1. What is the difference between the hydrostatic 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 =  $10 \text{ m/s}^2$ )

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Solutions of Problems in Fluid Mechanics-J. F. Douglas 1975 Fluid Mechanics-Carl Schaschke 2005 This is a collection of problems and solutions in fluid mechanics for students of all engineering...

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

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