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85 cm − 40 cm = 45 cm = 0.45 meters.

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Example 30 Inthepipesystemdepictedbelow,thedischargeinpipeABis100 m3/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 d ifference between the hydrostatic pressure of blood betwee n the brain and the sole s of the feet of a person whose height 165 cm (suppose the density of blood = 1.0×10 3 kg/m 3,

acceleration due to gravity = 10 m/s 2)

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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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