

Fluid Mechanics Problems Solutions

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Example 30 In the pipe systems depicted below, the discharge in pipe A is 100 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.

Practices 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 10³ kg/m³, acceleration due to gravity = 10 m/s²)

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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. ...