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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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Consider a steady, 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) Provide an expression for the mass flux \dot{m} based on ρ, V_∞ , and δ .

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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

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manometer is incompressible.

CHAPTER 3 PRESSURE AND FLUID STATICS

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