

Chapter 14

Fluid Mechanics. Solutions of Selected Problems

14.1 Problem 14.18 (*In the text book*)

Mercury is poured into a U-tube as in Figure (14.18a). The left arm of the tube has cross-sectional area A_1 of 10.0 cm^2 , and the right arm has a cross-sectional area A_2 of 5.00 cm^2 . One hundred grams of water are then poured into the right arm as in Figure Figure (14.18b).

- Determine the length of the water column in the right arm of the U-tube.
- Given that the density of mercury is 13.6 g/cm^3 , what distance h does the mercury rise in the left arm?



Figure 14.18:

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VM Jensen

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red semi-circular shape behind it, creating a stylized arrow or pointer effect.

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