

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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Yijin Wang



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Embracing the Track of Phrase: An Emotional Symphony within **Fluid Mechanics Problems Solutions**

In a world consumed by displays and the ceaseless chatter of fast connection, the melodic beauty and psychological symphony produced by the prepared term often disappear into the background, eclipsed by the relentless noise and interruptions that permeate our lives. However, nestled within the pages of **Fluid Mechanics Problems Solutions** an enchanting literary treasure full of natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this charming masterpiece conducts visitors on a psychological trip, well unraveling the concealed melodies and profound influence resonating within each carefully constructed phrase. Within the depths of this poignant analysis, we can discover the book is key harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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