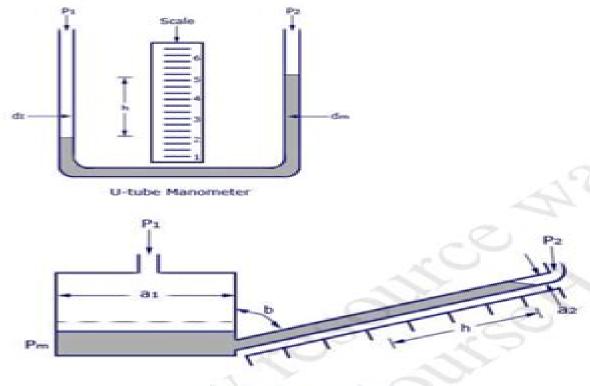
Consider the U-tube and inclined manometers shown below. For both manometers we have: Liquid densities are d_I and d_m with uncertainties ud_I and ud_m. The uncertainty in the inclination angle is u₀. And the uncertainty in the measured height is u₀ in both cases.



Inclined Tube manometer

- a) (4 points) Derive the equation for the static sensitivity of the U-tube manometer.
- b) (4 points) Derive the equation for the static sensitivity of the inclined manometer as a function of the angle b in the figure, assuming a₂ << a₁.
- c) (3 points) Why is the assumption a₂ << a₁ needed?
- d) (3 points) Derive the equation for the design-state uncertainty for the U-tube manometer.
- e) (3 points) Derive the equation for the design-state uncertainty for the inclined manometer.
- f) (3 points) Assume that the uncertainties in both densities is always 10%. Which of the following options is better to reduce the design-state uncertainty:
 - d_m similar to d_I
 - ii. dm larger than d1

Good Questions On Inclined Manometers And Answers

S Ben Porath

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Decoding **Good Questions On Inclined Manometers And Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "Good Questions On Inclined Manometers And Answers," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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