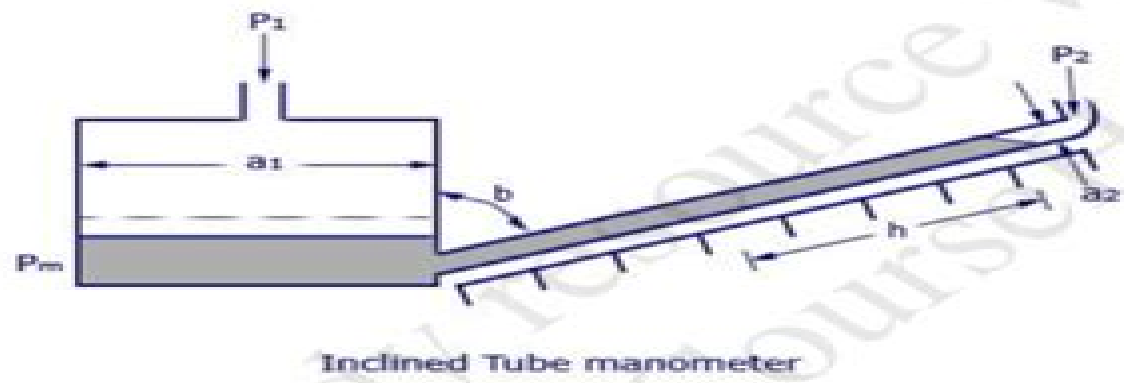
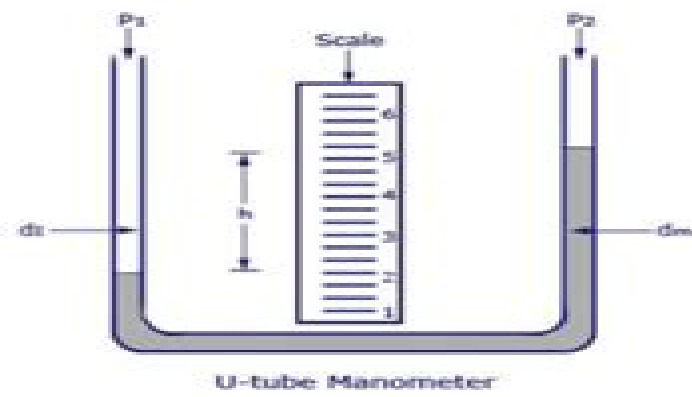


Consider the U-tube and inclined manometers shown below. For both manometers we have: Liquid densities are d_l and d_m with uncertainties u_{d_l} and u_{d_m} . The uncertainty in the inclination angle is u_θ . And the uncertainty in the measured height is u_h in both cases.



- (4 points) Derive the equation for the static sensitivity of the U-tube manometer.
- (4 points) Derive the equation for the static sensitivity of the inclined manometer as a function of the angle θ in the figure, assuming $a_2 \ll a_1$.
- (3 points) Why is the assumption $a_2 \ll a_1$ needed?
- (3 points) Derive the equation for the design-state uncertainty for the U-tube manometer.
- (3 points) Derive the equation for the design-state uncertainty for the inclined manometer.
- (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_l
 - d_m larger than d_l

Good Questions On Inclined Manometers And Answers

**George B. Hogaboom, T. F.
Slattery, Lloyd Blinn Ham**



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Table of Contents Good Questions On Inclined Manometers And Answers

1. Understanding the eBook Good Questions On Inclined Manometers And Answers
 - The Rise of Digital Reading Good Questions On Inclined Manometers And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Good Questions On Inclined Manometers And Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Good Questions On Inclined Manometers And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Good Questions On Inclined Manometers And Answers

- Personalized Recommendations
 - Good Questions On Inclined Manometers And Answers User Reviews and Ratings
 - Good Questions On Inclined Manometers And Answers and Bestseller Lists
5. Accessing Good Questions On Inclined Manometers And Answers Free and Paid eBooks
 - Good Questions On Inclined Manometers And Answers Public Domain eBooks
 - Good Questions On Inclined Manometers And Answers eBook Subscription Services
 - Good Questions On Inclined Manometers And Answers Budget-Friendly Options
 6. Navigating Good Questions On Inclined Manometers And Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Good Questions On Inclined Manometers And Answers Compatibility with Devices
 - Good Questions On Inclined Manometers And Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Good Questions On Inclined Manometers And Answers
 - Highlighting and Note-Taking Good Questions On Inclined Manometers And Answers
 - Interactive Elements Good Questions On Inclined Manometers And Answers
 8. Staying Engaged with Good Questions On Inclined Manometers And Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Good Questions On Inclined Manometers And Answers
 9. Balancing eBooks and Physical Books Good Questions On Inclined Manometers And Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Good Questions On Inclined Manometers And Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Good Questions On Inclined Manometers And Answers
 - Setting Reading Goals Good Questions On Inclined Manometers And Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Good Questions On Inclined Manometers And Answers

- Fact-Checking eBook Content of Good Questions On Inclined Manometers And Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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