

Problem Set #2 (with solution)

Answer following questions in words or equations. (Note on the solutions: some of the answers given here are *examples* of correct solutions, not the only correct solution. Judgment on the score is up to the graders.)

The homework is due by the end of the class on 10/15 (Sat). It must include detailed explanation on every step to reach the final answer of each problem, unless explicitly requested not to. Without special consideration, all students should write answers with hand.

1. Answer following questions with words (mostly explained in the class) in either English or Korean

(a) What are the forces considered while deriving the Bernoulli equation?

Ans) The gravity force, pressure force and the acceleration

(b) List the conditions of a flow where the Bernoulli equation is applicable

Ans) Following conditions

- i. Steady flow
- ii. Following a streamline
- iii. Incompressible flow
- iv. No work (and/or no viscous effect)

(c) What is the main use of the manometer, Pitot tube and Venturi meter?

Ans) Manometer measures the pressure, Pitot tube measures the velocity, Venturi meter measures the flow rate.

(d) In Pitot tube, what are the names and definitions of two values measured at the sensors?

Ans) The static pressure ($=p$) and the stagnation pressure ($=p + \rho V^2/2$)

2. Solve the following problems at the end of Chapter 3 : 3.14 (use Euler-n eq.), 3.22, 3.28, 3.46, 3.48, 3.53

*Note : For 3.46, assume only two upper holes (in other words, ignore the lowest hole) and use the following integration

$$\int \frac{1}{\sqrt{h} + \sqrt{h+D}} dh = \frac{2}{3} \left\{ \sqrt{h+D} \left(1 + \frac{h}{D} \right) - \frac{h\sqrt{h}}{D} \right\}.$$

where h is the height of the pop surface and D is the distance between holes. It is my mistake that I did not realize that the integration in the original problem is so complex. I feel sorry for those who spent a lot of time on it and would like to thank Jihye Itwang for her efforts and time.

Ans) Refer to the separate solution pages.

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Table of Contents Homework Problem Set 2 Solutions Illinois State University

1. Understanding the eBook Homework Problem Set 2 Solutions Illinois State University
 - The Rise of Digital Reading Homework Problem Set 2 Solutions Illinois State University
 - Advantages of eBooks Over Traditional Books
2. Identifying Homework Problem Set 2 Solutions Illinois State University
 - 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 Homework Problem Set 2 Solutions Illinois State University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Homework Problem Set 2 Solutions Illinois State University
 - Personalized Recommendations
 - Homework Problem Set 2 Solutions Illinois State University User Reviews and Ratings

- Homework Problem Set 2 Solutions Illinois State University and Bestseller Lists
- 5. Accessing Homework Problem Set 2 Solutions Illinois State University Free and Paid eBooks
 - Homework Problem Set 2 Solutions Illinois State University Public Domain eBooks
 - Homework Problem Set 2 Solutions Illinois State University eBook Subscription Services
 - Homework Problem Set 2 Solutions Illinois State University Budget-Friendly Options
- 6. Navigating Homework Problem Set 2 Solutions Illinois State University eBook Formats
 - ePub, PDF, MOBI, and More
 - Homework Problem Set 2 Solutions Illinois State University Compatibility with Devices
 - Homework Problem Set 2 Solutions Illinois State University Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Homework Problem Set 2 Solutions Illinois State University
 - Highlighting and Note-Taking Homework Problem Set 2 Solutions Illinois State University
 - Interactive Elements Homework Problem Set 2 Solutions Illinois State University
- 8. Staying Engaged with Homework Problem Set 2 Solutions Illinois State University
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Homework Problem Set 2 Solutions Illinois State University
- 9. Balancing eBooks and Physical Books Homework Problem Set 2 Solutions Illinois State University
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Homework Problem Set 2 Solutions Illinois State University
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Homework Problem Set 2 Solutions Illinois State University
 - Setting Reading Goals Homework Problem Set 2 Solutions Illinois State University
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Homework Problem Set 2 Solutions Illinois State University
 - Fact-Checking eBook Content of Homework Problem Set 2 Solutions Illinois State University
 - 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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