

FLUID MECHANICS EXERCISES

EXAMPLE 1: A cylinder contains a fluid at a relative (gauge) pressure of 35 t/m². Express this pressure in terms of a head of, a) water ($\gamma_{\text{water}} = 1000 \text{ kg/m}^3$), b) mercury ($\gamma_{\text{Hg}} = 13.6 \text{ t/m}^3$).

What would be the absolute pressure in the cylinder if the atmospheric pressure is 10.33 t/m²?

SOLUTION:

$$\text{head, } h = p/\gamma.$$

$$\therefore \gamma = 1 \text{ t/m}^3.$$

$$\text{Equivalent head of water} = \frac{35}{1} = 35 \text{ m.}$$

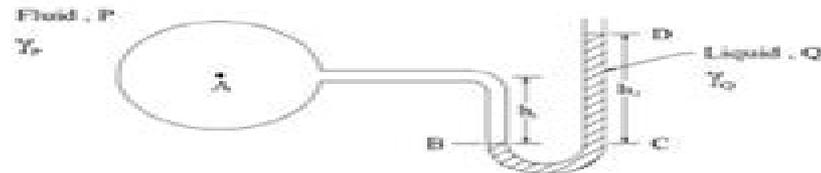
$$\text{b) For mercury } \gamma_{\text{Hg}} = 13.6 \text{ t/m}^3.$$

$$\text{Equivalent head of mercury} = \frac{35}{13.6} = 2.57 \text{ m.}$$

Absolute pressure = Gauge pressure + Atmospheric pressure

$$p_{\text{abs}} = 35 + 10.33 = 45.33 \text{ t/m}^2$$

EXAMPLE 2: A U-tube manometer in Fig. is used to measure the gage pressure of a fluid P of specific weight $\gamma_P = 800 \text{ kg/m}^3$. If the specific weight of the liquid Q is $\gamma_Q = 13.6 \times 10^3 \text{ kg/m}^3$, what will be the gage pressure at A if, a) $h_1 = 0.5 \text{ m}$ and D is 0.9 m above BC, b) $h_1 = 0.1 \text{ m}$ and D is 0.2 m below DC?



SOLUTION:

$$\text{a) } \gamma_P = 0.8 \text{ t/m}^3, \gamma_Q = 13.6 \text{ t/m}^3, (x_1 - x_2) = 0.5 \text{ m, } (x_2 - x_3) = 0.9 \text{ m.}$$

$$p_A + 0.8 \times 0.5 - 13.6 \times 0.9 = p_2 = 0$$

$$p_A = 13.6 \times 0.9 - 0.8 \times 0.5 = 11.84 \text{ t/m}^2$$

$$\text{b) Putting } (x_1 - x_2) = 0.1 \text{ m and } (x_2 - x_3) = -0.2 \text{ m into } \quad \text{gives,}$$

$$p_A + 0.8 \times 0.1 - 13.6 \times (-0.2) = p_2 = 0$$

$$p_A = -0.08 - 2.72 = -2.8 \text{ t/m}^2$$

The negative sign indicating that p_A is below atmospheric pressure. The absolute pressure at A is according to

$$p_{\text{abs}} = p_a + p_g = 10.33 - 2.8 = 7.53 \text{ t/m}^2$$

Fluid Mecanic Exercises Answers

Thomas Griffiths



Fluid Mecanic Exercises Answers:

The Top Books of the Year Fluid Mecanic Exercises Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Fluid Mecanic Exercises Answers : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Fluid Mecanic Exercises Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Fluid Mecanic Exercises Answers : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Fluid Mecanic Exercises Answers

1. Understanding the eBook Fluid Mecanic Exercises Answers
 - The Rise of Digital Reading Fluid Mecanic Exercises Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Fluid Mecanic Exercises 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 Fluid Mecanic Exercises Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fluid Mecanic Exercises Answers
 - Personalized Recommendations
 - Fluid Mecanic Exercises Answers User Reviews and Ratings
 - Fluid Mecanic Exercises Answers and Bestseller Lists
5. Accessing Fluid Mecanic Exercises Answers Free and Paid eBooks
 - Fluid Mecanic Exercises Answers Public Domain eBooks
 - Fluid Mecanic Exercises Answers eBook Subscription Services
 - Fluid Mecanic Exercises Answers Budget-Friendly Options
6. Navigating Fluid Mecanic Exercises Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Fluid Mecanic Exercises Answers Compatibility with Devices
 - Fluid Mecanic Exercises Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fluid Mecanic Exercises Answers
 - Highlighting and Note-Taking Fluid Mecanic Exercises Answers
 - Interactive Elements Fluid Mecanic Exercises Answers
8. Staying Engaged with Fluid Mecanic Exercises Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fluid Mecanic Exercises Answers
9. Balancing eBooks and Physical Books Fluid Mecanic Exercises Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fluid Mecanic Exercises Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fluid Mecanic Exercises Answers
- Setting Reading Goals Fluid Mecanic Exercises Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fluid Mecanic Exercises Answers
- Fact-Checking eBook Content of Fluid Mecanic Exercises 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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