

Problem 2

The magnitude of the component of a velocity at a point equal to of a stream function is  $\textcircled{1} 2$   $\textcircled{2} 2\sqrt{2}$   $\textcircled{3} 4$   $\textcircled{4} 4\sqrt{2}$ .  
The co-ordinate of the point is (1, 1).

Solution

For stream function  $\psi = x^2 - y^2$       $\frac{\partial \psi}{\partial x} = v$ ,      $\frac{\partial \psi}{\partial y} = -u$



$\frac{\partial \psi}{\partial x} = \frac{\partial (x^2 - y^2)}{\partial x} = 2x = v$

$v = 2x$

$\frac{\partial \psi}{\partial y} = \frac{\partial (x^2 - y^2)}{\partial y} = -2y = -u$

$u = 2y$

$V = \sqrt{u^2 + v^2}$

$= \sqrt{(2y)^2 + (2x)^2}$

$= \sqrt{4y^2 + 4x^2}$

$= \sqrt{4(1)^2 + 4(1)^2}$

$= \sqrt{4 + 4}$

$V = \sqrt{8}$

$V = \sqrt{2 \times 2 \times 2}$

$V = 2\sqrt{2}$

$[x=1, y=1]$

Problem 3

which of the following has the possible fluid flow

- $\textcircled{1} u = x, v = y$       $\textcircled{2} u = x^2, v = y^2$       $\textcircled{3} u = xy, v = x^2y^2$       $\textcircled{4} u = +x$

Solution

Fluid flow is only possible when it satisfy continuity  
i.e.  $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = 0$

Taking option  $\textcircled{4}$

$\frac{\partial u}{\partial x} = \frac{\partial (+x)}{\partial x} = + \frac{\partial x}{\partial x} = +1$

$\frac{\partial v}{\partial y} = \frac{\partial (-y)}{\partial y} = - \frac{\partial y}{\partial y} = -1$

$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = +1 + (-1) = 1 - 1 = 0$

# Mechanics Physics Problems And Solutions

**Patrick Vollmar**



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## **Table of Contents Mechanics Physics Problems And Solutions**

1. Understanding the eBook Mechanics Physics Problems And Solutions
  - The Rise of Digital Reading Mechanics Physics Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Physics Problems And Solutions
  - 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 Mechanics Physics Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Physics Problems And Solutions
  - Personalized Recommendations
  - Mechanics Physics Problems And Solutions User Reviews and Ratings
  - Mechanics Physics Problems And Solutions and Bestseller Lists

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