

Problem 2

The magnitude of the component of a velocity at a point equal to of a stream function is 2 2√2 4 4√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

- 1 $u = x, v = y$ 2 $u = x^2, v = y^2$ 3 $u = xy, v = x^2y^2$ 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 4

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

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

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

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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
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 - Mechanics Physics Problems And Solutions eBook Subscription Services

- Mechanics Physics Problems And Solutions Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
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- 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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