

4.32 The fluid velocity along the  $x$  axis shown in Fig. P4.32 changes from 6 m/s at point A to 18 m/s at point B. It is also known that the velocity is a linear function of distance along the streamline. Determine the acceleration at points A, B, and C. Assume steady flow.

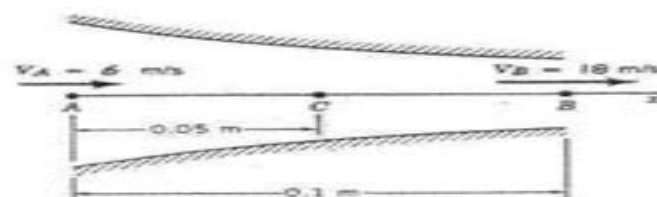


FIGURE P4.32

$$\vec{a} = \frac{\partial \vec{V}}{\partial t} + \vec{V} \cdot \nabla \vec{V} \quad \text{With } u = u(x), \quad v = 0, \quad \text{and } w = 0$$

this becomes

$$\vec{a} = \left( \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} \right) \hat{i} = u \frac{\partial u}{\partial x} \hat{i} \quad (1)$$

Since  $u$  is a linear function of  $x$ ,  $u = C_1 x + C_2$  where the constants  $C_1, C_2$  are given as:

$$u_A = 6 = C_2$$

$$\text{and } u_B = 18 = 0.1 C_1 + C_2$$

$$\text{or } C_1 = 120, \quad C_2 = 6$$

Thus,  $u = (120x + 6) \frac{\text{m}}{\text{s}}$  with  $x$  in  $\text{m}$

From Eq. (1)

$$\vec{a} = u \frac{\partial u}{\partial x} \hat{i} = (120x + 6) \frac{\text{m}}{\text{s}} \left( 120 \frac{\text{m}}{\text{m} \cdot \text{s}} \right) \hat{i}$$

or

$$\text{for } x_A = 0, \quad \vec{a}_A = \underline{\underline{720 \hat{i} \frac{\text{m}}{\text{s}^2}}}$$

$$\text{for } x_B = 0.05 \text{ m}, \quad \vec{a}_B = \underline{\underline{1440 \hat{i} \frac{\text{m}}{\text{s}^2}}}$$

and

$$\text{for } x_C = 0.1 \text{ m}, \quad \vec{a}_C = \underline{\underline{2160 \hat{i} \frac{\text{m}}{\text{s}^2}}}$$

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**Nazih K. Shammass, Lawrence K. Wang**



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## **Table of Contents Fundamentals Fluid Mechanics Munson 7th Edition Solutions**

1. Understanding the eBook Fundamentals Fluid Mechanics Munson 7th Edition Solutions
  - The Rise of Digital Reading Fundamentals Fluid Mechanics Munson 7th Edition Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Fluid Mechanics Munson 7th Edition 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 Fundamentals Fluid Mechanics Munson 7th Edition Solutions
  - User-Friendly Interface

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

12. Sourcing Reliable Information of Fundamentals Fluid Mechanics Munson 7th Edition Solutions
  - Fact-Checking eBook Content of Fundamentals Fluid Mechanics Munson 7th Edition 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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