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Chapter 1

- 1.1 Since $pV = nRT$, $\frac{V_1}{V_2} = \frac{T_1 p_2}{T_2 p_1}$
 $\therefore V_1 = \frac{\pi}{6} (20 \text{ m})^3 \frac{288.15}{233.15} \frac{1.1}{101.3} = 56.2 \text{ m}^3$
- 1.2 $\rho = \frac{p}{RT} = \frac{1.4 \times 10^5 \text{ N} \cdot \text{m}^{-2}}{287 \text{ J} \cdot \text{kg}^{-1} \cdot \text{K}^{-1} \times 323.15 \text{ K}} = 1.51 \text{ kg} \cdot \text{m}^{-3}$
- 1.3 $K = \rho \frac{\partial p}{\partial \rho}$ Assume K constant. Then $\ln(\rho/\rho_0) = \frac{p - p_0}{K}$
 $\therefore \rho = \rho_0 \exp\left(\frac{p - p_0}{K}\right) = 1025 \text{ kg} \cdot \text{m}^{-3} \exp\left(\frac{81.7 \times 10^6}{2.34 \times 10^9}\right)$
 $= 1061 \text{ kg} \cdot \text{m}^{-3}$
- 1.4 $\rho = \frac{\mu}{\nu} = \frac{2 \times 10^{-5} \text{ N} \cdot \text{s} \cdot \text{m}^{-2}}{15 \times 10^{-6} \text{ m}^2 \cdot \text{s}^{-1}} = 1.333 \text{ kg} \cdot \text{m}^{-3}$
 $R = \frac{p}{\rho T} = \frac{1.013 \times 10^5 \text{ N} \cdot \text{m}^{-2}}{1.333 \text{ kg} \cdot \text{m}^{-3} \times 293.15 \text{ K}} = 259.2 \text{ J} \cdot \text{kg}^{-1} \cdot \text{K}^{-1}$
 $\therefore M = \frac{8310}{259.2} = 32.06$
- 1.5 $\mu = \nu \rho = 400 \times 10^{-6} \text{ m}^2 \cdot \text{s}^{-1} \times 850 \text{ kg} \cdot \text{m}^{-3} = 0.34 \text{ Pa} \cdot \text{s}$
 Velocity gradient $= \frac{0.12 \text{ m} \cdot \text{s}^{-1}}{0.1 \times 10^{-3} \text{ m}} = 1200 \text{ s}^{-1}$
 Area $= \pi 0.2 \times 1.2 \text{ m}^2 = 0.754 \text{ m}^2$
 Force $= 0.754 \text{ m}^2 \times 0.34 \text{ Pa} \cdot \text{s} \times 1200 \text{ s}^{-1} = 307.6 \text{ N}$

Massey Mechanics Of Fluids Solution Manual

E Durkheim



Massey Mechanics Of Fluids Solution Manual:

Mechanics of Fluids Bernard Stanford Massey, Alfred John Ward-Smith, 2005 This solutions manual accompanies the 8th edition of Massey's *Mechanics of Fluids* the long standing and best selling textbook It provides a series of carefully worked solutions to problems in the main textbook suitable for use by lecturers guiding students *Mechanics of Fluids* John Ward-Smith, 2005 This solutions manual accompanies the 8th edition of Massey's *Mechanics of Fluids* the long standing and best selling textbook It provides a series of carefully worked solutions to problems in the main textbook suitable for use by lecturers guiding students on an honours degree course in civil or mechanical engineering or relevant for undergraduate courses in aeronautical and chemical engineering **A First Course in Fluid Mechanics for Civil Engineers** Donald D. Gray, 2000 **Mechanics of Fluids** John Ward-Smith, 2018-10-24 This ninth edition adds a section examining the modern context of fluid mechanics and associated issues including climate change new forms of energy generation and fresh water conservation **Mechanics of Fluids Solutions Manual** Bernard Stanford Massey, 1984 **Mechanics of Fluids, Eighth Edition** John Ward-Smith, 2005-11-03 Massey has long been a best selling textbook This extensively revised and updated eighth edition like its predecessors presents the basic principles of the mechanics of fluids in a thorough and clear manner It provides the essential material for an honours degree course in civil or mechanical engineering in addition to providing much relevant material for undergraduate courses in aeronautical and chemical engineering Emphasis is given to a sound physical understanding of fluid flow and its engineering applications rather than to mathematical techniques Students are introduced systematically to the subject with the text moving from the simple to the complex and from the familiar to the unfamiliar SI units are used throughout and there are many worked examples The book is essentially self contained The opening chapter has been expanded to provide a broader introduction to fluid mechanics New topics for this edition include basic applications of complex variable theory the physics of tsunamis procedures for the selection of pumps and fans and the losses for flow through nozzles orifice meters perforated plates and gauzes For lecturers an accompanying solutions manual is available **The Aeronautical Journal** ,2000 **The Publishers' Trade List Annual** ,1987 *Mechanics of Fluids, Ninth Edition* John Ward-Smith, 2012-05-23 As in previous editions this ninth edition of Massey's *Mechanics of Fluids* introduces the basic principles of fluid mechanics in a detailed and clear manner This bestselling textbook provides the sound physical understanding of fluid flow that is essential for an honours degree course in civil or mechanical engineering as well as courses in aeronautical and chemical engineering Focusing on the engineering applications of fluid flow rather than mathematical techniques students are gradually introduced to the subject with the text moving from the simple to the complex and from the familiar to the unfamiliar In an all new chapter the ninth edition closely examines the modern context of fluid mechanics where climate change new forms of energy generation and fresh water conservation are pressing issues SI units are used throughout and there are many worked examples Though the book is essentially self contained where

appropriate references are given to more detailed or advanced accounts of particular topics providing a strong basis for further study For lecturers an accompanying solutions manual is available **Mechanical Engineering News** ,1968

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 - Chapter 5: Conclusion
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