

## Chapter 1

### Introduction: Basic Principles

**1.1.(a)** Air flows adiabatically through a long straight circular section duct, 0.25 m diameter at a measured mass flow rate of 40 kg/s. At a particular section along the duct the values of static temperature  $T = 350^\circ\text{C}$  and static pressure  $p = 550\text{ kPa}$ . Determine the average velocity of the airflow and its stagnation temperature.

(b) At another station further along the duct, measurements reveal that the static temperature has dropped to  $147^\circ\text{C}$  as a consequence of wall friction. Determine the average velocity and the static pressure of the airflow at this station.

Also determine the change in entropy per unit of mass flow between the two stations.

For air assume that  $R = 287\text{ J/(kgK)}$  and  $\gamma = 1.4$

#### Solution

(a) From the gas law

$$\rho_1 = \frac{p_1}{RT_1} = \frac{550 \times 10^3}{287 \times 623} = 4.53\text{ kg/m}^3$$

From the conservation of mass law

$$c_1 = \frac{\dot{m}}{\rho_1 A} = \frac{40}{4.53 \times 0.04908} = 180\text{ m/s. Ans.}$$

$$\text{where } A = \left(\frac{\pi}{4}\right)d^2 = 0.04908\text{ m}^2$$

From the conservation of energy equation the stagnation temperature is

$$T_{01} = T_1 + \frac{c_1^2}{2C_{p, \text{air}}} = 423 + \frac{179.9^2}{2 \times 1004.5} = 479.1\text{ K. Ans.}$$

(b)  $T_2 = 147 + 273 = 420\text{ K}$

As the flow is adiabatic, the energy of the air is conserved along the pipe, and  $h_{01} = h_{02}$

# Fluid Mechanics 5th Edition Solutions

**Donald F. Young, Bruce R.  
Munson, Theodore H. Okiishi, Wade W.  
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Fluid Mechanics Bijay K. Sultanian, 2025-01-20. Fluid Mechanics: An Intermediate Approach helps readers develop a physics-based understanding of complex flows and mathematically model them with accurate boundary conditions for numerical predictions. The new edition starts with a chapter reviewing key undergraduate concepts in fluid mechanics and thermodynamics, introducing the generalized conservation equation for differential and integral analyses. It concludes with a self-study chapter on computational fluid dynamics (CFD) of turbulent flows, including physics-based postprocessing of 3D CFD results and entropy map generation for accurate interpretation and design applications. This book includes numerous worked examples and end-of-chapter problems for student practice. It also discusses how to numerically model compressible flow over all Mach numbers in a variable area duct, accounting for friction, heat transfer, rotation, internal choking and normal shock formation. This book is intended for graduate mechanical and aerospace engineering students taking courses in fluid mechanics and gas dynamics. Instructors will be able to utilize a solutions manual for their course.

*Fundamentals of Fluid Mechanics* Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, 2005-09. Master fluid mechanics with the #1 text in the field. Effective pedagogy, everyday examples, an outstanding collection of practical problems—these are just a few reasons why Munson, Young and Okiishi's *Fundamentals of Fluid Mechanics* is the best-selling fluid mechanics text on the market. In each new edition, the authors have refined their primary goal of helping you develop the skills and confidence you need to master the art of solving fluid mechanics problems. This new Fifth Edition includes many new problems, revised and updated examples, new Fluids in the News case study examples, new introductory material about computational fluid dynamics (CFD) and the availability of FlowLab for solving simple CFD problems. Access special resources online: New copies of this text include access to resources on the book's website, including 80 short Fluids Mechanics Phenomena videos which illustrate various aspects of real-world fluid mechanics. Review Problems for additional practice with answers so you can check your work. 30 extended laboratory problems that involve actual experimental data for simple experiments. The data for these problems is provided in Excel format. Computational Fluid Dynamics problems to be solved with FlowLab software. Student Solution Manual and Study Guide. A Student Solution Manual and Study Guide is available for purchase, including essential points of the text, Cautions to alert you to common mistakes, 109 additional example problems with solutions and complete solutions for the Review Problems.

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Wang, 2023-03-23 Focuses on understanding the book introduces the theory of fluid mechanics in an accessible way, clear diagrams and interesting examples.

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**Elementary Fluid Mechanics, Fifth Edition, SI Version [by] John K. Vennard, Robert L. Street. Solutions Manual** Robert Lynnwood Street, John K. Vennard, Bruce M. Howe, 1977?

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