

Solutions Manual for Fluid Mechanics 5th Edition by Kundu Cohen and Dowling

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Chapter 1 Introduction

1.1 A gas at 20°C may be *rarefied* if it contains less than 10^{12} molecules per mm^3 . If Avogadro's number is $6.023\text{E}23$ molecules per mole, what air pressure does this represent?

Solution: The mass of one molecule of air may be computed as

$$m = \frac{\text{Molecular weight}}{\text{Avogadro's number}} = \frac{28.97 \text{ mol}^{-1}}{6.023\text{E}23 \text{ molecules/g} \cdot \text{mol}} = 4.81\text{E}-23 \text{ g}$$

Then the density of air containing 10^{12} molecules per mm^3 is, in SI units,

$$\begin{aligned} \rho &= \frac{(10^{12} \text{ molecules})}{\text{mm}^3} \cdot \frac{4.81\text{E}-23 \text{ g}}{\text{molecule}} \\ &= 4.81\text{E}-11 \frac{\text{g}}{\text{mm}^3} = 4.81\text{E}-5 \frac{\text{kg}}{\text{m}^3} \end{aligned}$$

Finally, from the perfect gas law, Eq. (1.13), at 20°C = 293 K, we obtain the pressure:

$$p = \rho RT = 4.81\text{E}-5 \frac{\text{kg}}{\text{m}^3} \cdot \frac{\text{m}^2}{\text{s}^2 \cdot \text{K}} (293 \text{ K}) = 4.0 \text{ Pa} \quad \text{Ans.}$$

1.2 The earth's atmosphere can be modeled as a uniform layer of air of thickness 20 km and average density 0.6 kg/m^3 (see Table A-6). Use these values to estimate the total mass and total number of molecules of air in the entire atmosphere of the earth.

Solution: Let R_e be the earth's radius $\approx 6377 \text{ km}$. Then the total mass of air in the atmosphere is

$$\begin{aligned} m_a &= \rho \, d\text{Vol} = \rho_{\text{avg}} (\text{Air Vol}) \approx \rho_{\text{avg}} 4\pi R_e^2 (\text{Air thickness}) \\ &= (0.6 \text{ kg/m}^3) 4\pi (6.377\text{E}6 \text{ m})^2 (20\text{E}3 \text{ m}) \approx 6.1\text{E}18 \text{ kg} \quad \text{Ans.} \end{aligned}$$

Dividing by the mass of one molecule $\approx 4.8\text{E}-23 \text{ g}$ (see Prob. 1.1 above), we obtain the total number of molecules in the earth's atmosphere:

$$N_{\text{molecules}} = \frac{m(\text{atmosphere})}{m(\text{one molecule})} = \frac{6.1\text{E}21 \text{ grams}}{4.8\text{E}-23 \text{ gm/molecule}} \approx 1.3\text{E}44 \text{ molecules} \quad \text{Ans.}$$

Fluid Mechanics Kundu Solutions Manual

Yi-Tong Ma



Fluid Mechanics Kundu Solutions Manual:

Solutions Manual to Accompany Fluid Mechanics, Third Edition Pijush K. Kundu, Ira M. Cohen, 2004 Fluid Mechanics Ira M. Cohen, Pijush K. Kundu, 2004-05-06 Fluid Mechanics understanding and applying the principles of how motions and forces act upon fluids such as gases and liquids is introduced and comprehensively covered in this widely adopted text New to this third edition are expanded coverage of such important topics as surface boundary interfaces improved discussions of such physical and mathematical laws as the Law of Biot and Savart and the Euler Momentum Integral A very important new section on Computational Fluid Dynamics has been added for the very first time to this edition Expanded and improved end of chapter problems will facilitate the teaching experience for students and instructors alike This book remains one of the most comprehensive and useful texts on fluid mechanics available today with applications going from engineering to geophysics and beyond to biology and general science Ample useful end of chapter problems Excellent Coverage of Computational Fluid Dynamics Coverage of Turbulent Flows Solutions Manual available *Fluid Mechanics* Pijush K. Kundu, Ira M. Cohen, David R Dowling, 2012 Suitable for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level this book presents the study of how fluids behave and interact under various forces and in various applied situations whether in the liquid or gaseous state or both *Mechanics of Elastic Waves and Ultrasonic Nondestructive Evaluation* Tribikram Kundu, 2019-07-09 Summary This book presents necessary background knowledge on mechanics to understand and analyze elastic wave propagation in solids and fluids This knowledge is necessary for elastic wave propagation modeling and for interpreting experimental data generated during ultrasonic nondestructive testing and evaluation NDT E The book covers both linear and nonlinear analyses of ultrasonic NDT E techniques The materials presented here also include some exercise problems and solution manual Therefore this book can serve as a textbook or reference book for a graduate level course on elastic waves and or ultrasonic nondestructive evaluation It will be also useful for instructors who are interested in designing short courses on elastic wave propagation in solids or NDT E The materials covered in the first two chapters provide the fundamental knowledge on linear mechanics of deformable solids while Chapter 4 covers nonlinear mechanics Thus both linear and nonlinear ultrasonic techniques are covered here Nonlinear ultrasonic techniques are becoming more popular in recent years for detecting very small defects and damages However this topic is hardly covered in currently available textbooks Researchers mostly rely on published research papers and research monographs to learn about nonlinear ultrasonic techniques Chapter 3 describes elastic wave propagation modeling techniques using DPSM Chapter 5 is dedicated to an important and very active research field acoustic source localization that is essential for structural health monitoring and for localizing crack and other type of damage initiation regions Features Introduces Linear and Nonlinear ultrasonic techniques in a single book Commences with basic definitions of displacement displacement gradient traction and stress Provides step by step derivations of fundamental

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