

# Fluid Mechanics Problems and Solutions

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## Problem 1: Venturi Meter Flow Measurement

Given:

- Diameter at section 1 ( $D_1$ ) = 0.15 m
- Diameter at section 2 ( $D_2$ ) = 0.10 m
- Pressure at section 1 ( $P_1$ ) = 200 kPa
- Pressure at section 2 ( $P_2$ ) = 150 kPa
- Density of water ( $\rho$ ) = 1000 kg/m<sup>3</sup>
- Discharge coefficient ( $C_d$ ) = 0.98

Find: The flow rate through the Venturi meter.

**Solution:**

Step 1: Use Bernoulli's equation between sections 1 and 2:

$$P_1 + (1/2) * \rho * v_1^2 = P_2 + (1/2) * \rho * v_2^2$$

Rearrange to get:  $v_1^2 - v_2^2 = (2 * (P_1 - P_2)) / \rho$

Since velocity at section 1 is smaller, we approximate  $v_1 = 0$ .

$$\text{Thus: } v_2 = \sqrt{(2 * (P_1 - P_2)) / \rho}$$

Step 2: Use the Continuity Equation to relate the velocities:

$$A_1 * v_1 = A_2 * v_2 \rightarrow v_2 = (A_1 / A_2) * v_1$$

Step 3: Substitute and solve for  $v_1$  and  $v_2$ .

Finally, use  $Q = A_1 * v_1$  to calculate the flow rate  $Q$ .

## Problem 2: Orifice Plate Flow Measurement

Given:

- Diameter of the orifice ( $D_o$ ) = 0.05 m
- Pressure difference across the orifice ( $\Delta P$ ) = 20 kPa
- Discharge coefficient ( $C_d$ ) = 0.62
- Fluid density ( $\rho$ ) = 1000 kg/m<sup>3</sup>

Find: The flow rate  $Q$  through the orifice.

**Solution:**

Step 1: Use the orifice flow rate formula:

$$Q = C_d * A_o * \sqrt{(2 * \Delta P) / \rho}$$

Where  $A_o$  is the area of the orifice,  $A_o = \pi * (D_o)^2 / 4$

Step 2: Calculate the area of the orifice:

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**Chao Zhang**



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*Engineering Fluid Mechanics*, **Engineering Fluid Mechanics Solution Manual**, Fluid Mechanics Joseph H. Spurk, 1997-07-07 This collection of over 200 detailed worked exercises adds to and complements the textbook *Fluid Mechanics* by the same author and at the same time illustrates the teaching material via examples The exercises revolve around applying the fundamental concepts of Fluid Mechanics to obtain solutions to diverse concrete problems and in so doing the students skill in the mathematical modelling of practical problems is developed In addition 30 challenging questions WITHOUT detailed solutions have been included While lecturers will find these questions suitable for examinations and tests students themselves can use them to check their understanding of the subject **Applied Fluid Mechanics, Global Edition** Robert Mott, Robert L. Mott, Joseph A. Untener, 2024-06-04 For all fluid mechanics hydraulics and related courses in Mechanical Manufacturing Chemical Fluid Power and Civil Engineering Technology and Engineering programs The leading applications oriented approach to engineering fluid mechanics is now in full colour with integrated software new problems and extensive new coverage Applied Fluid Mechanics offers a clear and practical presentation of all basic principles of fluid mechanics both statics and dynamics tying theory directly to real devices and systems used in mechanical chemical civil and environmental engineering The 7th edition offers new real world example problems and integrates the use of world renowned PIPE FLO software for piping system analysis and design It presents new procedures for problem solving and design more realistic and higher quality illustrations and more coverage of many topics including hose plastic pipe tubing pumps viscosity measurement devices and computational fluid mechanics Full colour images and colour highlighting make charts graphs and tables easier to interpret organise narrative material into more manageable chunks and make all of this text s content easier to study **Essential Fluids with MATLAB and Octave - Part 1 (Theory)** P. Venkataraman, 2024-01-15 This book covers the requisite theory for the basic study of fluid mechanics at low speeds This book is unique in that it integrates engineering computation using the popular technical software MATLAB and the free counterpart Octave Programming is by example throughout the book Prior knowledge of programming is not necessary This book reviews prerequisite topics prior to teaching the subject matter This book introduces the physics of fluid mechanics based on first principles It develops the mathematical relations and model of fluid flow so that problems can be defined and solved The translation of natural laws into mathematical models includes two approaches The integral approach is simple though limited This approach uses assumptions and simplifications that makes it easy to apply and acquire a solution however that solution will lack detail and merely provide average or overall values Thus the integral approach is inadequate for understanding or designing complex fluid systems On the other hand it may provide an approximate value with limited effort It may be able to establish bounds around the true value The differential approach is complex but expansive The solution is established at every point in the flow domain making it possible to include specific local effects and special

properties of the flow The topics in this book are illustrated with examples with most solved by computation The premise of this book is that science and mathematical concepts are best understood through graphics therefore software illustrates solutions through graphical programming Students are taught and encouraged to explore solutions through graphics

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Solutions to Problems in Fluid Mechanics Victor Lyle Streeter, E. Benjamin Wylie, 1979

Engineering Fluid Mechanics Clayton T. Crowe, Donald F. Elger, John A. Roberson, 2000-10-24 This reader friendly book fosters a strong conceptual understanding of fluid flow phenomena through lucid physical descriptions photographs clear illustrations and fully worked example problems More than 1 100 problems including open ended design problems and computer oriented problems provide an opportunity to apply fluid mechanics principles Throughout the authors have meticulously reviewed all problems solutions and text material to ensure accuracy

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*Fundamentals of Fluid Mechanics* Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, 2005-09

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