



# Problem 2

A piston moves without friction in a cylinder of section  $S_1$  and diameter  $d_1 = 4$  cm filled with water. The piston is pushed by a force  $F$  of intensity 62.84 Newtons at a constant speed  $V_1$ . The fluid can escape towards the outside by a cylinder of section  $S_2$  and diameter  $d_2 = 1$  cm at a speed  $V_2$ , pressure  $P_2 = P_{atm} = 1$  bar.

$S_1$   
 $d_1 = 4\text{cm}$   
 $\rho = 1000 \frac{\text{kg}}{\text{m}^3}$   
 $F = 62,84 \text{ N}$   
 $d_2 = 1\text{cm}$   
 proj'x

$P_1 \propto F, P_0, (d_1)$

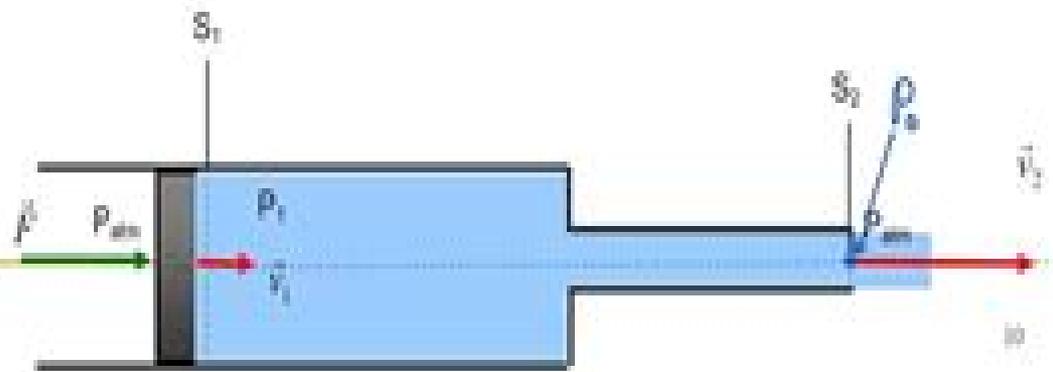


$\sum \vec{F}_x = \vec{F}_0 + \vec{F} + \vec{F}_w = m\vec{a} = \vec{0} \quad (v = \text{const})$

$F + F_0 - F_w = 0$   
 $F + P_0 \times S_1 - P_1 S_1 = 0$

$$P_1 = \frac{F + P_0 \times \pi \left(\frac{d_1}{2}\right)^2}{\pi \left(\frac{d_1}{2}\right)^2}$$

- 1) Determine the pressure  $P_1$  of the fluid at the level of section  $S_1$  as a function of  $F$ ,  $P_{atm}$  and  $d_1$ .
- 2) Determine  $V_2$  as a function of  $P_1$ ,  $P_{atm}$  and  $d_1$ .



# Solving Problems In Fluid Dynamics

**John Francis Douglas**



## **Solving Problems In Fluid Dynamics:**

*Solving Problems in Fluid Mechanics* John F. Douglas, R. D. Matthews, 1996 This second volume of two aims to help prepare students of fluid mechanics for their examinations by presenting a clear explanation of theory and application in the form of solutions to typical examination and assignment type questions Each chapter comprises start of chapter learning objectives a summary of basic theory end of chapter summaries a range of worked examples a selection of problems with answers and assignments to encourage further practice and consolidate understanding

**Solving Problems in Fluid Dynamics** George Joseph Sharpe, 1994-01-01 The study of fluid dynamics forms an essential part of many engineering courses and plays an integral part of applying theory to practice The material incorporated into this text is suitable for use by advanced undergraduate and postgraduate engineering students

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**2,500 Solved Problems In Fluid Mechanics and Hydraulics** Jack Evett, Cheng Liu, 1989-01-01 This powerful problem solver gives you 2 500 problems in fluid mechanics and hydraulics fully solved step by step From Schaum's the originator of the solved problem guide and students favorite with over 30 million study guides sold this timesaver helps you master every type of fluid mechanics and hydraulics problem that you will face in your homework and on your tests from properties of fluids to drag and lift Work the problems yourself then check the answers or go directly to the answers you need using the complete index Compatible with any classroom text Schaum's 2500 Solved Problems in Fluid Mechanics and Hydraulics is so complete it's the perfect tool for graduate or professional exam review

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**Fluid Mechanics/Dynamics Problem Solver**, Thorough coverage is given to fluid properties statics kinematics pipe flow dimensional analysis potential and vortex flow drag and lift channel flow hydraulic structures propulsion and turbomachines

**Fluid Mechanics** Egon Krause, 2005-12-08 Despite dramatic advances in numerical and experimental methods of fluid mechanics the fundamentals are still the starting point for solving flow problems This textbook introduces the major branches of fluid mechanics of incompressible and compressible media the basic laws governing their flow and gas dynamics Fluid Mechanics demonstrates how flows can be classified and how specific engineering problems can be identified formulated and solved using the methods of applied mathematics The material is elaborated in special applications sections by more than 200 exercises and separately listed solutions The final section comprises the Aerodynamics Laboratory an introduction to experimental methods treating eleven flow experiments This class tested textbook offers a unique combination of introduction to the major fundamentals many exercises and a detailed description of experiments

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A Text Book of Fluid Mechanics and Hydraulic Machines Bansal, 2005-12-30

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*Computational Methods for Fluid Dynamics* Joel H. Ferziger, Milovan Peric, 2012-12-06 In its 3rd revised and extended edition the book offers an overview of the techniques used to solve problems in fluid mechanics on computers

and describes in detail those most often used in practice Included are advanced methods in computational fluid dynamics like direct and large eddy simulation of turbulence multigrid methods parallel computing moving grids structured block structured and unstructured boundary fitted grids free surface flows The 3rd edition contains a new section dealing with grid quality and an extended description of discretization methods The book shows common roots and basic principles for many different methods The book also contains a great deal of practical advice for code developers and users it is designed to be equally useful to beginners and experts The issues of numerical accuracy estimation and reduction of numerical errors are dealt with in detail with many examples

Engineering Fluid Mechanics Clayton T. Crowe, Donald F. Elger, John A. Roberson, 2005-11-18 Error free The authors have taken great pains to check the accuracy of all calculations throughout the text Readability This text has established a reputation for clarity and the ease with which students can grasp the material with minimal input from the instructor Supporting Illustrations further support and facilitate student comprehension Basic concepts are explained with physical arguments A physical visual approach aids the student in gaining an intuitive understanding of the principles of fluid dynamics Numerous worked out examples in the text Students can use the examples as a basis for solving problems Design problems Applying theoretical principles in practical designs helps develop the student's engineering creativity Appropriate coverage of mathematics The text's treatment of mathematics is consistent with the capability of the typical undergraduate student For example the concept of irrotationality and the Bernoulli equation in irrotational flow is presented with a minimum use of partial differential equations This concept is made more visual and comprehensible to the student More advanced mathematical formulations are available in the text for use at the instructor's discretion

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**Engineering Fluid Mechanics, International Adaptation** Donald F. Elger, Barbara A. LeBret, Clayton T. Crowe, John A. Roberson, 2022-05-03 Engineering Fluid Mechanics 12th edition guides students from theory to application emphasizing skills like critical thinking problem solving and modeling to apply fluid mechanics concepts to solve real world engineering problems The essential concepts are presented in a clear and concise format while abundant illustrations charts diagrams and examples illustrate complex topics and highlight the physical reality of fluid dynamics applications The text emphasizes on technical derivations presenting derivations of main equation in a step by step manner and explaining their holistic meaning in words The Wales Wood Model is used throughout the text to solve numerous example problems This International Adaptation comes with some updates that enhance and expand certain concepts and some organizational changes The edition provides a wide variety of new and updated solved problems real world engineering examples and end of chapter homework problems and has been completely updated to use SI units The text though written from civil engineering perspective adopts an interdisciplinary approach which makes it suitable for engineering students of all majors who are taking a first or second course in fluid mechanics

**Schaum's Outline of Fluid**

**Dynamics** William F. Hughes, John A. Brighton, 1999-07-19 Aimed at undergraduates and graduate engineering students this book covers a broad spectrum of fluid mechanics for beginners and more specialized topics like supersonic flow for advanced students

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