

Compute the velocity and Reynolds number to see if the flow is laminar. $\nu_{\text{air}} = 1 \times 10^{-4} \text{ ft}^2/\text{s}$. Neglect entrance losses to the pipe.

$$\blacksquare \quad p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L \quad p_2/62.4 + v_2^2/2g + 0 = 0 + v_2^2/2g + 0 + h_f \quad v_2^2/2g = v_2^2/2g$$

$$p_2/62.4 = h_f$$

$$Q = \frac{\pi \rho g d^4 h_f}{128 \mu L}$$

$$h_f = \frac{128 Q \mu L}{\pi \rho g d^4} = \frac{128 [(\pi d^2/4)(v_2)] \mu L}{\pi \rho g d^4} = \frac{32 v_2 \mu L}{g d^3} = \frac{(32)(v_2)(1 \times 10^{-4})(7000)}{(32.2)(3/12)^3} = 11.13 v_2$$

$$p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L \quad 0 + 0 + 10 = p_2/62.4 + v_2^2/[(2)(32.2)] + 0 + 0$$

$$p_2/62.4 = 10 - v_2^2/[(2)(32.2)]$$

Equating h_f from Eqs. (1) and (2),

$$p_2/62.4 = 11.13 v_2$$

Equating $p_2/62.4$ from Eqs. (3) and (4), $11.13 v_2 = 10 - v_2^2/[(2)(32.2)]$, $v_2^2 + 716.8 v_2 - 644 = 0$, $v_2 = 0.8973 \text{ ft/s}$; $Q = Av = [(\pi)(\frac{3}{12})^2/4](0.8973) = 0.0440 \text{ ft}^3/\text{s}$; $N_R = dv/\nu = (\frac{3}{12})(0.8973)/(1 \times 10^{-4}) = 2243$ (barely laminar).

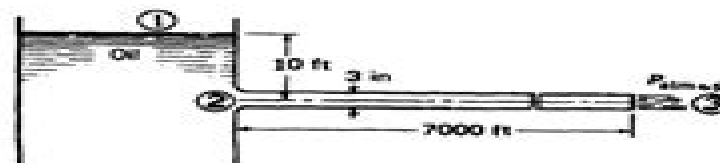


Fig. 9-5

9.17 If 140 L/s of water flows through the system shown in Fig. 9-6, calculate the total head loss between 2 and 3.

$$\blacksquare \quad p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L$$

$$v_2 = Q/A_2 = (140 \times 10^{-3})/[(\pi)(0.300)^2/4] = 1.981 \text{ m/s} \quad v_3 = Q/A_3 = (140 \times 10^{-3})/[(\pi)(0.150)^2/4] = 7.922 \text{ m/s}$$

$$p_2/9.79 + 1.981^2/[(2)(9.807)] + 0 = 0 + 7.922^2/[(2)(9.807)] + 15 + h_L \quad h_L = p_2/9.79 - 18.00$$

$$p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L \quad 0 + 0 + 30 = p_2/9.79 + 1.981^2/[(2)(9.807)] + 0 + 0$$

$$p_2/9.79 = 29.80 \text{ m} \quad h_L = 29.80 - 18.00 = 11.80 \text{ m}$$



Fig. 9-6

9.18 Determine the maximum velocity for laminar flow for (a) medium fuel oil at 60 °F ($\nu = 4.75 \times 10^{-5} \text{ ft}^2/\text{s}$) flowing through a 6-in pipe and (b) water at 60 °F flowing in the 6-in pipe.

$$\blacksquare \quad \text{For laminar flow, assume } N_R \approx 2000. \quad N_R = dv/\nu$$

(a) $2000 = (\frac{6}{12})(v)/(4.75 \times 10^{-5}) \quad v = 0.190 \text{ ft/s}$

(b) $2000 = (\frac{6}{12})(v)(1.21 \times 10^{-5}) \quad v = 0.0484 \text{ ft/s}$

Solved Problems In Mechanics

CH Cherryholmes



Solved Problems In Mechanics:

Exploring Classical Mechanics G. L. Kotkin, V. G. Serbo, 2020-08-10 This new edition of a popular textbook offers an original collection of problems in analytical mechanics. Analytical mechanics is the first chapter in the study and understanding of theoretical physics. Its methods and ideas are crucially important as they form the basis of all other branches of theoretical physics including quantum mechanics, statistical physics and field theory. Such concepts as the Lagrangian and Hamiltonian formalisms, normal oscillations, adiabatic invariants, Liouville theorem and canonical transformations lay the foundation without which any further in-depth study of theoretical physics is impossible. Wherever possible, the authors draw analogies and comparisons with similar processes in electrodynamics, quantum mechanics or statistical mechanics while presenting the solutions to the problems. The book is based on the authors' many years of experience delivering lectures and seminars at the Department of Physics at Novosibirsk State University, totalling an impressive 110 years of combined teaching experience. Most of the problems are original and will be useful not only for those studying mechanics but also for those who teach it. The content of the book corresponds to and roughly follows the mechanics course in the well-known textbooks by Landau and Lifshitz, Goldstein or ter Haar. The Collection starts with the Newtonian equations of motion in a central field and scattering. Then the text proceeds to the established traditional sections of analytical mechanics as part of the course on theoretical physics: the Lagrangian equations, the Noether theorem, linear and nonlinear oscillations, Hamilton formalism and motion of a solid body. As a rule, the solution of a problem is not complete by just obtaining the required formulae. It is necessary to analyse the result. This can be an interesting process of discovery for the student and is by no means a mechanical part of the solution. It is also very useful to investigate what happens if the conditions of the problem are varied. With this in mind, the authors offer suggestions of further problems at the end of several solutions. First published in 1969 in Russian, this text has become widely used in classrooms around the world. It has been translated into several languages and has seen multiple editions in various languages. *Analytical Mechanics* Ioan Merches, Daniel Radu, 2014-08-26 Giving students a thorough grounding in basic problems and their solutions, *Analytical Mechanics: Solutions to Problems in Classical Physics* presents a short theoretical description of the principles and methods of analytical mechanics followed by solved problems. The authors thoroughly discuss solutions to the problems by taking a comprehensive approach to explore the methods of investigation. They carefully perform the calculations step by step, graphically displaying some solutions via Mathematica 4.0. This collection of solved problems gives students experience in applying theory: Lagrangian and Hamiltonian formalisms for discrete and continuous systems, Hamilton-Jacobi method, variational calculus, theory of stability and more to problems in classical physics. The authors develop some theoretical subjects so that students can follow solutions to the problems without appealing to other reference sources. This has been done for both discrete and continuous physical systems or in analytical terms: systems with finite and infinite degrees of

freedom The authors also highlight the basics of vector algebra and vector analysis in Appendix B They thoroughly develop and discuss notions like gradient divergence curl and tensor together with their physical applications There are many excellent textbooks dedicated to applied analytical mechanics for both students and their instructors but this one takes an unusual approach with a thorough analysis of solutions to the problems and an appropriate choice of applications in various branches of physics It lays out the similarities and differences between various analytical approaches and their specific efficiency Solved Problems of Classical Mechanics Rolando Pérez-Álvarez,Miguel Eduardo Mora-Ramos,2024-10-31

Despite being a well established and robust science Classical Mechanics continues to evolve with new advancements emerging its methods extending into other branches of Physics and Science more broadly For these reasons it remains a fundamental subject for students of Physics certain Engineering disciplines and other related fields This book presents one hundred solved problems in Classical Mechanics with the authors aiming to provide detailed solutions to support students who are still developing their skills Many problems include practical applications numerical examples and result analysis The book addresses key topics such as Newtonian Mechanics Lagrangian Mechanics Hamiltonian Mechanics Central Force Fields Rigid Bodies Small Oscillations Poisson Brackets and Canonical Transformations The authors welcome feedback from readers to further enrich this collection in future editions tailoring it to meet their evolving interests **Solved Problems in**

Classical Mechanics O.L. de Lange,J. Pierrus,2010-05-06 simulated motion on a computer screen and to study the effects of changing parameters *Solved Problems in Classical Mechanics* O. L. de Lange,J. Pierrus,2010-05-06 Apart from an introductory chapter giving a brief summary of Newtonian and Lagrangian mechanics this book consists entirely of questions and solutions on topics in classical mechanics that will be encountered in undergraduate and graduate courses These include one two and three dimensional motion linear and nonlinear oscillations energy potentials momentum and angular momentum spherically symmetric potentials multi particle systems rigid bodies translation and rotation of the reference frame the relativity principle and some of its consequences The solutions are followed by a set of comments intended to stimulate inductive reasoning and provide additional information of interest Both analytical and numerical computer techniques are used to obtain and analyze solutions The computer calculations use Mathematica version 7 and the relevant code is given in the text It includes use of the interactive Manipulate function which enables one to observe simulated motion on a computer screen and to study the effects of changing parameters The book will be useful to students and lecturers in undergraduate and graduate courses on classical mechanics and students and lecturers in courses in computational physics **Problems**

of Fracture Mechanics and Fatigue Emmanuel Gdoutos,C.A. Rodopoulos,J.R. Yates,2003-11-30 The complexity surrounding the subjects of fracture mechanics and fatigue and the difficulties experienced by academics researchers and engineers in comprehending the use of different approaches solutions necessitated the writing of this book The book written by a selection of 15 world experts provides a step by step solution guide for a 139 problems In its unique form the book can

provide valuable information for a selection of problems which cover the most important aspects of both fracture mechanics and fatigue The use of references theoretical background and accurate explanations allow the book to work on its own or as complementary material to other related titles

Mechanics of Materials - Formulas and Problems Dietmar Gross,Wolfgang Ehlers,Peter Wriggers,Jörg Schröder,Ralf Müller,2016-11-25 This book contains the most important formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Stress Strain Hooke s Law Tension and Compression in Bars Bending of Beams Torsion Energy Methods Buckling of Bars Hydrostatics **700 Solved Problems in Vector Mechanics for Engineers** Joseph F. Shelley,2000 *Solved Problems in Lagrangian and Hamiltonian Mechanics* Claude Gignoux,Bernard Silvestre-Brac,2009-07-14 The aim of this work is to bridge the gap between the well known Newtonian mechanics and the studies on chaos ordinarily reserved to experts Several topics are treated Lagrangian Hamiltonian and Jacobi formalisms studies of integrable and quasi integrable systems The chapter devoted to chaos also enables a simple presentation of the KAM theorem All the important notions are recalled in summaries of the lectures They are illustrated by many original problems stemming from real life situations the solutions of which are worked out in great detail for the benefit of the reader This book will be of interest to undergraduate students as well as others whose work involves mechanics physics and engineering in general

Solving Practical Engineering Mechanics Problems Sayavur I. Bakhtiyarov,2022-05-31 Engineering Mechanics is one of the fundamental branches of science which is important in the education of professional engineers of any major Most of the basic engineering courses such as mechanics of materials fluid and gas mechanics machine design mechatronics acoustics vibrations etc are based on Engineering Mechanics course In order to absorb the materials of Engineering Mechanics it is not enough to consume just theoretical laws and theorems student also must develop an ability to solve practical problems Therefore it is necessary to solve many problems independently This book is a part of a four book series designed to supplement the Engineering Mechanics courses in the principles required to solve practical engineering problems in the following branches of mechanics Statics Kinematics Dynamics and Advanced Kinetics Each book contains 6 8 topics on its specific branch and each topic features 30 problems to be assigned as homework tests and or midterm final exams with the consent of the instructor A solution of one similar sample problem from each topic is provided This second book in the series contains six topics of Kinematics the branch of mechanics that is concerned with the analysis of motion of both particle and rigid bodies without reference to the cause of the motion This book targets undergraduate students at the sophomore junior level majoring in science and engineering

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A Textbook of Engineering Mechanics R.K. Bansal,2005-12 **Problems And Solutions On Mechanics** Yung-kuo Lim,1994-11-08 The material for these volumes has been selected from the past twenty years examination questions for graduate students at the University of California Berkeley Columbia University the University of Chicago MIT State University of New York at Buffalo Princeton University and the University of Wisconsin

2500 Solved Problems in Fluid Mechanics and Hydraulics Jack B. Evett,1989 **A Text Book of Fluid Mechanics and Hydraulic Machines** Bansal,2005-12-30 *300 Solved Problems on Rotational Mechanics* Shraddhesh Chaturvedi,Jitender Singh,2019-05-23 The Rotational Mechanics problems present in this book bring forth the subtle points of theory consequently developing a full understanding of the topic They are invaluable resource for any serious student of Physics Features Focus on building concepts through problem solving MCQ s with single correct and multiple correct options Questions arranged according to complexity level Completely solved objective problems The solutions reveals all the critical points Promotes self learning Can be used as a readily available mentor for solutions This book provides 300 objective type questions and their solutions These questions improve your problem solving skills test your conceptual understanding and help you in exam preparation The book also covers relevant concepts in brief These are enough to solve problems given in this book If a student seriously attempts all the problems in this book he she will naturally develop the ability to analyze and solve complex problems in a simple and logical manner using a few well understood principles Topics Kinematics of Rotational Motion Moment of Inertia Angular Momentum Torque Rolling Without Slipping Collision of Rigid Bodies Dynamics of Rigid Bodies Authors Jitender Singh is working as a Scientist in DRDO He has a strong academic background with Integrated M Sc 5 years in Physics from IIT Kanpur and M Tech in Computational Science from IISc Bangalore He is All India Rank 1 holder in GATE and loves to solve physics problems Shraddhesh Chaturvedi holds a degree in Integrated M Sc 5 years in Physics from IIT Kanpur He is passionate about problem solving in physics and enhancing the quality of texts

available to Indian students His career spans many industries where he has contributed with his knowledge of physics and mathematics An avid reader and keen thinker his philosophical writings are a joy to read **Fluid Mechanics Through Problems**

R. J. Garde,2006 This Is An Outcome Of Authors Over Thirty Years Of Teaching Fluid Mechanics To Undergraduate And Postgraduate Students The Book Is Written With The Purpose That Through This Book Student Should Appreciate The Strength And Limitations Of The Theory And Also Its Potential For Application In Solving A Variety Of Engineering Problems Of Practical Importance It Makes Available To The Students Appearing For Diploma And Undergraduate Courses In Civil Chemical And Mechanical Engineering A Book Which Briefly Introduces The Necessary Theory Followed By A Set Of Descriptive Objective Questions In Seventeen Chapters The Book Covers The Broad Areas Of Fluid Properties Kinematics Dynamics Dimensional Analysis Laminar Flow Boundary Layer Theory Turbulent Flow Forces On Immersed Bodies Open Channel Flow Compressible And Unsteady Flows And Pumps And Turbines **Solved Problems in**

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Quantum and Statistical Mechanics Michele Cini,Francesco Fucito,Mauro Sbragaglia,2012-03-30 This textbook is the result of many years of teaching quantum and statistical mechanics drawing on exercises and exam papers used on courses taught by the authors The subjects of the exercises have been carefully selected to cover all the material which is most needed by students Each exercise is carefully solved in full details explaining the theory behind the solution with particular care for those issues that students often find difficult or which are often neglected in other books on the subject The exercises in this book never require extensive calculations but tend to be somewhat unusual and force the solver to think about the problem starting from first principles rather than by analogy with some previously solved exercise

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