

- 22.9** A pump with a shaft input of 7.5 kW and an efficiency of 70 percent is connected in a water line carrying 0.1 m<sup>3</sup>/s. The pump has a 150-mm-diameter suction line and a 120-mm-diameter discharge line. The suction line enters the pump 1 m below the discharge line. For a suction pressure of 70 kN/m<sup>2</sup>, calculate the pressure at the discharge flange and the rise in the hydraulic grade line across the pump.

■ The energy added per unit weight of water,  $E$ , is given by  $Q\gamma E = 7500(0.70)$ , or  $E = 7500(0.7)/[0.1(9806)] = 5.354$  m. Applying the energy equation from suction flange to discharge flange gives  $(V_s^2/2g) + (p_s/\gamma) + 0 + 5.354 = (V_d^2/2g) + (p_d/\gamma) + 1$  in which the subscripts  $s$  and  $d$  refer to the suction and discharge conditions, respectively. From the continuity equation,  $V_s = 0.1(4)/(0.15^2\pi) = 5.66$  m/s,  $V_d = 0.1(4)/(0.12^2\pi) = 8.84$  m/s. Solving for  $p_d$  gives  $p_d/\gamma = [5.66^2/2(9.806)] + (70\,000/9806) + 5.354 - [8.84^2/2(9.806)] - 1 = 9.141$  m and  $p_d = 89.6$  kPa. The rise in hydraulic grade line is  $[(p_d/\gamma) + 1] - (p_s/\gamma) = 9.141 + 1 - (70\,000/9806) = 3.002$  m.

- 22.10** Sketch the hydraulic and energy grade lines for Fig. 22-9a ( $H = 10$  m).

■  $p_1/\gamma + V_1^2/2g + z_1 = p_2/\gamma + V_2^2/2g + z_2 + h_L$        $h_L = h_f + h_m$        $h_f = (f)(L/D)(V^2/2g)$   
 $(\epsilon/D)_1 = 0.000046/0.150 = 0.000307$ ; try  $f_1 = 0.015$ .  $(\epsilon/D)_2 = 0.000046/0.300 = 0.000153$ ; try  $f_2 = 0.015$ .  
 $h_f = (0.015)[25/0.150]\{V_1^2/[2(9.807)]\} + (0.015)[(20+8)/0.300]\{(V_1/4)^2/[2(9.807)]\} = 0.1319V_1^2$   
 $h_m = KV^2/2g = [1 + (1 - \frac{1}{4})^2 + 3.5/16 + \frac{1}{4}]\{V_1^2/[2(9.807)]\} = 0.09400V_1^2$   
 $h_L = 0.1319V_1^2 + 0.09400V_1^2 = 0.2259V_1^2$        $0 + 0 + 10 = 0 + 0 + 0 + 0.2259V_1^2$        $V_1 = 6.653$  m/s  
 $V_1^2/2g = 6.653^2/[2(9.807)] = 2.257$  m       $V_2 = 6.653/4 = 1.663$  m/s       $V_2^2/2g = 1.663^2/[2(9.807)] = 0.141$  m  
 Friction losses are  $(f_1)(L/D)(V_1^2/2g) = 5.642$  m,  $(f_2)(L/D)(V_2^2/2g) = 0.197$  m. Minor losses are  $(V_1 - V_2)^2/2g = 1.270$  m,  $3.5V_2^2/2g = 0.494$  m. The hydraulic and energy grade lines are sketched in Fig. 22-9b. [Further checking (not shown) of the Reynolds number indicates that the assumed values of  $f_1$  and  $f_2$  are acceptable.]

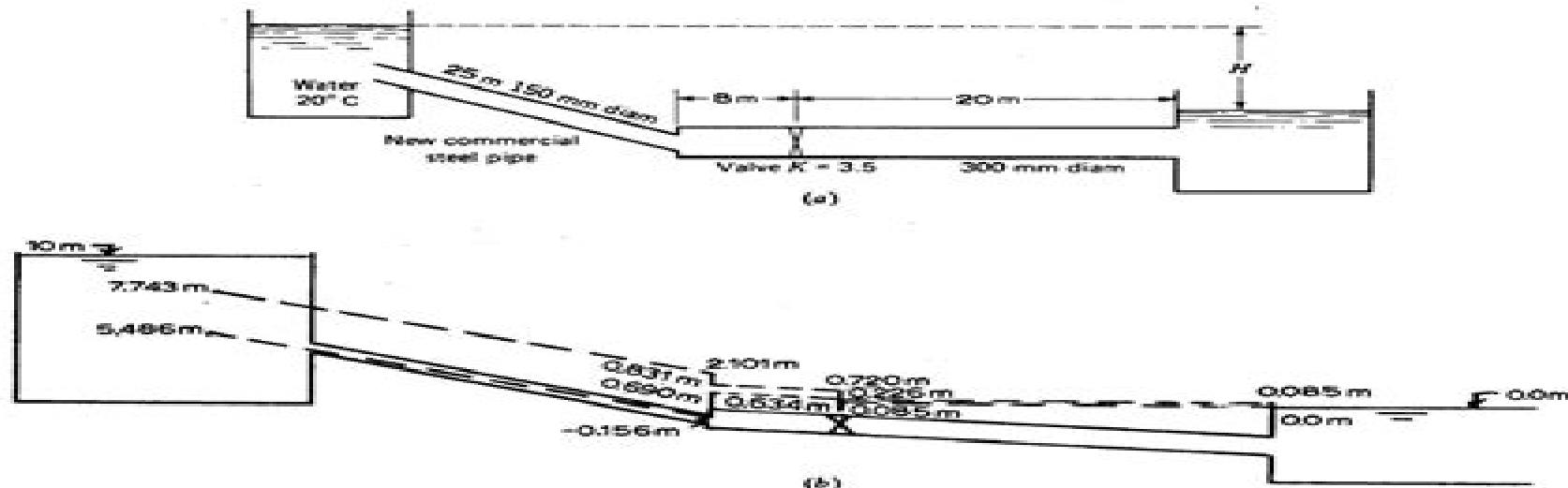


Fig. 22-9

- 22.11** Determine the slope of the hydraulic grade line for flow of atmospheric air through a rectangular 21-in by 7-in galvanized iron conduit ( $V = 25$  fps).

# Solved Problems In Mechanics

**AKSHOY RANJAN PAUL, SANCHAYAN  
MUKHERJEE, PIJUSH ROY**



## **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.

*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 **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 Large-scale Problems in Mechanics** Manolis Papadrakakis,1993-06-01 Solving Large Scale Problems in Mechanics The Development and Application of Computational Solution Methods M Papadrakakis National Technical University of Athens Greece This book consists of a number of self contained chapters written by internationally acclaimed leading researchers It deals with the application of computational solution methods for handling large scale problems in mechanics The techniques explored here are applicable to any problem in the field where available computing

power is liable to be stretched to its limit Emphasis is given to computational procedures suitable to computing systems with vector and parallel architectures Each chapter proceeds logically first with theory then with algorithmic computational analysis and finally applications to real problems This is a comprehensive state of the art treatment of theory and practice illustrated by extensive numerical examples which should serve as an essential reference book on the subject **Selected**

**Problems of Solid Mechanics and Solving Methods** Holm Altenbach, Viacheslav Bogdanov, Alexander Ya.

Grigorenko, Roman M. Kushnir, Vladimir M. Nazarenko, Victor A. Eremeyev, 2024-06-04 This book examines new approaches for the estimation of errors in approximate theories Numerical and analytical methods in mechanics often require the establishment of a set of basic equations and various approaches exist to create approximate theories from them The problem is that nobody knows the boundaries of the estimation of errors in approximate theories This book presents new approaches to overcome this problem and to provide the reader with suitable methods for the relevant field including a representation of different scientific schools and different countries These new methods are helping to solve many problems not only in analytical Mechanics but also in Physics Mathematics and Civil Engineering **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 in 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      **Problems and Solutions in Engineering Mechanics** S. S. Bhavikatti,A. Vittal

Hegde,2009-05-30 Each chapter begins with a quick discussion of the basic concepts and principles It then provides several well developed solved examples which illustrate the various dimensions of the concept under discussion A set of practice problems is also included to encourage the student to test his mastery over the subject The book would serve as an excellent text for both Degree and Diploma students of all engineering disciplines AMIE candidates would also find it most useful

The Theory Of Machines Through Solved Problems J. S. Rao,2007 The Theory Of Machines Or Mechanism And Machine Theory Is A Basic Subject Taught In Engineering Schools To Mechanical Engineering Students This Subject Lays The Foundation On Which Mechanical Engineering Design And Practice Rests With It Is Also A Subject Taught When The Students Have Just Entered Engineering Discipline And Are Yet To Formulate Basics Of Mechanical Engineering This Subject Needs A Lot Of Practice In Solving Engineering Problems And There Is Currently No Good Book Explaining The Subject Through Solved Problems This Book Is Written To Fill Such A Void And Help The Students Preparing For Examinations It Contains In All 336 Solved Problems Several Illustrations And 138 Additional Problems For Practice Basic Theory And Background Is Presented Though It Is Not Like A Full Fledged Text Book In That Sense This Book Contains 20 Chapters The First One Giving A Historical Background On The Subject The Second Chapter Deals With Planar Mechanisms Explaining Basic Concepts Of Machines Kinematic Analysis Is Given In Chapter 3 With Graphical As Well As Analytical Tools The Synthesis Of Mechanisms Is Given In Chapter 4 Additional Mechanisms And Coupler Curve Theory Is Presented In Chapter 5 Chapter 6 Discusses Various Kinds Of Cams Their Analysis And Design Spur Gears Helical Gears Worm Gears And Bevel Gears And Gear Trains Are Extensively Dealt With In Chapters 7 To 9 Hydrodynamic Thrust And Journal Bearings Long And Short Bearings Are Considered In Chapter 10 Static Forces Inertia Forces And A Combined Force Analysis Of Machines Is Considered In Chapters 11 To 13 The Turning Moment And Flywheel Design Is Given In Chapter 14 Chapters 15 And 16 Deal With Balancing Of Rotating Parts Reciprocating Parts And Four Bar Linkages Force Analysis Of Gears And Cams Is Dealt With In Chapter 17 Chapter 18 Is Concerned With Mechanisms Used In Control Viz Governors And Gyroscopes Chapters 19 And 20 Introduce Basic Concepts Of Machine Vibrations And Critical Speeds Of Machinery A Special Feature Of This Book Is The Availability Of Three Computer Aided Learning Packages For Planar Mechanisms Their Analysis And Animation For Analysis Of Cams With Different Followers And Dynamics Of Reciprocating Machines Balancing And Flywheel Analysis      *A Textbook of Engineering Mechanics* R.K. Bansal,2005-12      *Problems And Solutions On Mechanics (Second Edition)* Sweet Cheng Lim,Choy Heng Lai,Leong-chuan Kwek,2020-06-22 This volume is a compilation of carefully selected questions at the

PhD qualifying exam level including many actual questions from Columbia University University of Chicago MIT State University of New York at Buffalo Princeton University University of Wisconsin and the University of California at Berkeley over a twenty year period Topics covered in this book include dynamics of systems of point masses rigid bodies and deformable bodies Lagrange's and Hamilton's equations and special relativity This latest edition has been updated with more problems and solutions and the original problems have also been modernized excluding outdated questions and emphasizing those that rely on calculations The problems range from fundamental to advanced in a wide range of topics on mechanics easily enhancing the student's knowledge through workable exercises Simple to solve problems play a useful role as a first check of the student's level of knowledge whereas difficult problems will challenge the student's capacity on finding the solutions

Engineering Mechanics and Strength of Materials, **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

Solving Practical Engineering Problems in Engineering Mechanics Sayavur I. Bakhtiyarov, 2022-05-31 Engineering Mechanics is one of the fundamental branches of science that 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 an Engineering Mechanics course In order to absorb the materials of Engineering Mechanics it is not enough to consume just theoretical laws and theorems a 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 third book in the series contains seven topics on Dynamics the branch of mechanics that is concerned with the relation existing between the forces acting on the objects and the motion of these objects This book targets undergraduate students at the sophomore junior level majoring in science and engineering

**MECHANICAL SCIENCES** AKSHOY RANJAN PAUL, SANCHAYAN MUKHERJEE, PIJUSH ROY, 2005-01-01 Primarily intended for the first year undergraduate students of various engineering disciplines this comprehensive and up to date text also serves the needs of second year undergraduate students Mechanical Civil Aeronautical Chemical Production and Marine Engineering studying Engineering Thermodynamics and Fluid Mechanics

The whole text is divided into two parts and gives a detailed description of the theory along with the systematic applications of laws of Thermodynamics and Fluid Mechanics to engineering problems Part I Chapters 1 6 deals with the energy interaction between system and surroundings while Part II Chapters 7 15 covers the fluid flow phenomena This accessible and comprehensive text is designed to take the student from an elementary level to a level of sophistication required for the analysis of practical problems **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 A Text Book of Fluid Mechanics and Hydraulic Machines Bansal,2005-12-30



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