

Problem 2

The magnitude of the component of a velocity at a point equal to of a stream function is (1) 2 (2) $2\sqrt{2}$ (3) 4 (4) $4\sqrt{2}$.
The co-ordinate of the point is (1, 1).

Solution

For stream function $\psi = x^2 - y^2$ $\frac{\partial \psi}{\partial x} = v$, $\frac{\partial \psi}{\partial y} = -u$



$\frac{\partial \psi}{\partial x} = \frac{\partial (x^2 - y^2)}{\partial x} = 2x = v$

$v = 2x$

$\frac{\partial \psi}{\partial y} = \frac{\partial (x^2 - y^2)}{\partial y} = -2y = -u$

$u = 2y$

$V = \sqrt{u^2 + v^2}$

$= \sqrt{(2y)^2 + (2x)^2}$

$= \sqrt{4y^2 + 4x^2}$

$= \sqrt{4(1)^2 + 4(1)^2}$

$= \sqrt{4 + 4}$

$V = \sqrt{8}$

$V = \sqrt{2 \times 2 \times 2}$

$V = 2\sqrt{2}$

$[x=1, y=1]$

Problem 3

which of the following has the possible fluid flow

- (1) $u = x, v = y$ (2) $u = x^2, v = y^2$ (3) $u = xy, v = x^2y^2$ (4) $u = +x$

Solution

Fluid flow is only possible when it satisfy continuity
i.e. $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = 0$

• Taking option (4)

$\frac{\partial u}{\partial x} = \frac{\partial (+x)}{\partial x} = + \frac{\partial x}{\partial x} = +1$

$\frac{\partial v}{\partial y} = \frac{\partial (-y)}{\partial y} = - \frac{\partial y}{\partial y} = -1$

$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = +1 + (-1) = 1 - 1 = 0$

Mechanics Physics Problems And Solutions

O. L. de Lange, J. Pierrus



Mechanics Physics Problems And Solutions:

Physics Problems with Solutions - Mechanics Octavian Radu,2014-11-10 This book is a collection of Physics problems useful for preparing Olympiads and Contests

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

Princeton Problems in Physics, with Solutions Nathan Newbury,1991-02-21 Aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems These problems have been culled from the preliminary and general examinations created by the physics department at Princeton University for its graduate program The authors all students who have successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one Their book will be a valuable resource not only to other students but to college physics teachers as well The first four chapters pose problems in the areas of mechanics electricity and magnetism quantum mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses Later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics

Classical Mechanics Illustrated by Modern Physics David Guéry-Odelin,Thierry Lahaye,2010 In many fields of modern physics classical mechanics plays a key role This book provides an illustration of classical mechanics in the form of problems at the bachelor level inspired for most of them by contemporary research in physics and resulting from the teaching and research experience of the authors

300 Creative Physics Problems with Solutions Laszlo Holics,2011 This collection of exercises compiled for talented high school students encourages creativity and a deeper understanding of ideas when solving physics problems Described as far beyond high school level this book grew out of the idea that teaching should not aim for the merely routine but challenge pupils and stretch their ability through creativity and thorough comprehension of

ideas

Introduction to Classical Mechanics David Morin, 2008-01-10 This textbook covers all the standard introductory topics in classical mechanics including Newton's laws, oscillations, energy, momentum, angular momentum, planetary motion, and special relativity. It also explores more advanced topics such as normal modes, the Lagrangian method, gyroscopic motion, fictitious forces, 4-vectors, and general relativity. It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic. There are also over 350 unworked exercises which are ideal for homework assignments. Password-protected solutions are available to instructors at www.cambridge.org/9780521876223. The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics. Remarks are scattered throughout the text discussing issues that are often glossed over in other textbooks and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts. [Problems and Solutions on Mechanics](#) Y. K. Lim, 1994 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. *Problems in Classical and Quantum Mechanics* J. Daniel Kelley, Jacob J. Leventhal, 2016-11-30 This book is a collection of problems that are intended to aid students in graduate and undergraduate courses in Classical and Quantum Physics. It is also intended to be a study aid for students that are preparing for the PhD qualifying exam. Many of the included problems are of a type that could be on a qualifying exam. Others are meant to elucidate important concepts. Unlike other compilations of problems, the detailed solutions are often accompanied by discussions that reach beyond the specific problem. The solution of the problem is only the beginning of the learning process; it is by manipulation of the solution and changing of the parameters that a great deal of insight can be gleaned. The authors refer to this technique as "massaging the problem" and it is an approach that the authors feel increases the pedagogical value of any problem. *Classical Mechanics* Konstantin Konstantinovich Likharev, 2017 *Essential Advanced Physics* is a series comprising four parts: Classical Mechanics, Classical Electrodynamics, Quantum Mechanics, and Statistical Mechanics. Each part consists of two volumes: Lecture notes and Problems with solutions, further supplemented by an additional collection of test problems and solutions available to qualifying university instructors. This volume, *Classical Mechanics: Problems with solutions*, contains detailed model solutions to the exercise problems formulated in the companion *Lecture notes* volume. In many cases, the solutions include result discussions that enhance the lecture material. For the reader's convenience, the problem assignments are reproduced in this volume. Source: rsos.royalsocietypublishing.org/ **A Guide to Physics Problems** Sidney B. Cahn, Boris E. Nadgorny, 2006-03-23 In order to equip hopeful graduate students with the knowledge necessary to pass the qualifying examination, the authors have assembled and solved standard and original problems from major American universities: Boston University, University of Chicago, University of Colorado at Boulder, Columbia University, University of Maryland, University of Michigan, Michigan State, Michigan Tech, MIT, Princeton, Rutgers, Stanford.

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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

Research in Education, 1973

A Guide to Physics Problems Sidney B. Cahn, Boris E. Nadgorny, 1994-08-31 In order to equip hopeful graduate students with the knowledge necessary to pass the qualifying examination the authors have assembled and solved standard and original problems from major American universities Boston University University of Chicago University of Colorado at Boulder Columbia University of Maryland University of Michigan Michigan State Michigan Tech MIT Princeton Rutgers Stanford Stony Brook University of Wisconsin at Madison and Moscow Institute of Physics and Technology A wide range of material is covered and comparisons are made between similar problems of different schools to provide the student with enough information to feel comfortable and confident at the exam Guide to Physics Problems is published in two volumes this book Part 1 covers Mechanics Relativity and Electrodynamics Part 2 covers Thermodynamics Statistical Mechanics and Quantum Mechanics Praise for A Guide to Physics Problems Part 1 Mechanics Relativity and Electrodynamics Sidney Cahn and Boris Nadgorny have energetically collected and presented solutions to about 140 problems from the exams at many universities in the United States and one university in Russia the Moscow Institute of Physics and Technology Some of the problems are quite easy others are quite tough some are routine others ingenious From the Foreword by C N Yang Nobelist in Physics 1957 Generations of graduate students will be grateful for its existence as they prepare for this major hurdle in their careers R Shankar Yale University The publication of the volume should be of great help to future candidates who must pass this type of exam J Robert Schrieffer Nobelist in Physics 1972 I was positively impressed The book will be useful to students who are studying for their examinations and to faculty who are searching for appropriate problems M L Cohen University of California at Berkeley If a student understands how to solve these problems they have gone a long way toward mastering the subject matter Martin Olsson University of Wisconsin at Madison This book will become a necessary study guide for graduate students while they prepare for their Ph D examination It will become equally useful for the faculty who write the questions G D Mahan University of Tennessee at Knoxville

Essential Advanced Physics K. K. Likharev, 2018-06-11 Essential Advanced Physics is a series comprising four parts Classical Mechanics Classical Electrodynamics Quantum Mechanics and Statistical Mechanics

Problems and Solutions in Introductory Mechanics David J. Morin, 2014 This problem book is ideal for high school and college students in search of practice problems with detailed solutions All of the standard introductory topics in mechanics are covered kinematics Newton's laws energy momentum

angular momentum oscillations gravity and fictitious forces The introduction to each chapter provides an overview of the relevant concepts Students can then warm up with a series of multiple choice questions before diving into the free response problems which constitute the bulk of the book The first few problems in each chapter are derivations of key results theorems that are useful when solving other problems While the book is calculus based it can also easily be used in algebra based courses The problems that require calculus only a sixth of the total number are listed in an appendix allowing students to steer clear of those if they wish Additional details

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