Quantum Mechanics
Practice Problems on Operators

Problem-1

If $\hat{A}$ is the complex conjugation operator [i.e., $\hat{A}f(x) = f^*(x)$] and $\hat{B}f(x) = \dfrac{df}{dx}$ for any $f(x)$, show that $[\hat{A}, \hat{B}] = 0$

Solution

$$\hat{A}\,\hat{B}\,f(x) = \hat{A}\frac{df(x)}{dx} = \frac{df^*(x)}{dx};$$

$$\hat{B}\,\hat{A}\,f(x) = \hat{B}\,f^*(x) = \frac{df^*(x)}{dx}$$

$$\therefore \quad \hat{A}\,\hat{B}\,f(x) - \hat{B}\,\hat{A}\,f(x) = 0$$

or
$$\left(\hat{A}\,\hat{B} - \hat{B}\,\hat{A}\right) f(x) = 0$$

Since $f(x)$ is arbitrary, $\hat{A}\,\hat{B} - \hat{B}\,\hat{A} = 0$ or $[\hat{A}, \hat{B}] = 0$

or $\hat{A}$ and $\hat{B}$ commute with each other.   ∎

Problem-2

Show that $[\hat{x}, \hat{p}_x] = i\hbar$

Solution

For any configuration space wave function $\psi(x)$,

$$[\hat{x}, \hat{p}_x]\psi(x) = \hat{x}\,\hat{p}_x\,\psi(x) - \hat{p}_x\hat{x}\,\psi(x)$$

$$= x\frac{\hbar}{i}\frac{\partial\psi}{\partial x} - \frac{\hbar}{i}\frac{\partial}{\partial x}(x\psi)$$

$$= \frac{\hbar}{i}\left(x\frac{\partial\psi}{\partial x} - \psi - x\frac{\partial\psi}{\partial x}\right)$$

$$= i\hbar\psi$$

Since ψ is arbitrary, $[\hat{x}, \hat{p}_x] = i\hbar$ ∎

Problem-3

Show that $[\hat{p}_j, \hat{f}(\vec{r})] = \dfrac{\hbar}{i}\dfrac{\partial f}{\partial r_j}$ for $j = 1, 2, 3$

Mechanics Problems And Solutions

S. S. Bhavikatti,A. Vittal Hegde

Mechanics Problems And Solutions:

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 *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 **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 **The Mechanics Problem Solver** Research and Education Association,1995 Classical Mechanics Carolina C. Ilie,Zachariah S. Schrecengost,Elina M. van Kempen,2022-12-29 This book of problems and solutions in classical mechanics is dedicated to junior or senior undergraduate students in physics engineering applied mathematics astronomy or chemistry who may want to improve their problems solving skills or to freshman graduate students who may be seeking a refresh of the material The book is structured in ten chapters starting with Newton s laws motion with air resistance conservation laws oscillations and the Lagrangian and Hamiltonian Formalisms The last two chapters introduce some ideas in nonlinear dynamics chaos and special relativity Each chapter starts with a brief theoretical outline and continues with problems and detailed solutions A concise presentation of differential equations can be found in the appendix A variety of problems are presented from the standard classical mechanics problems to context rich problems and more challenging problems Key features Presents a theoretical outline for each chapter Motivates the students with standard mechanics problems with step by step explanations Challenges the students with more complex problems with detailed solutions **Mechanics-problems & Solutions** D . P. Sharma,2006-02-01 **Mechanics: Statics & Dynamics Problem Solver** The Editors of REA,2012-11-22 The Problem Solvers are an exceptional series of books that are thorough unusually well organized and structured in such a way that they

can be used with any text No other series of study and solution guides has come close to the Problem Solvers in usefulness quality and effectiveness Educators consider the Problem Solvers the most effective series of study aids on the market Students regard them as most helpful for their school work and studies With these books students do not merely memorize the subject matter they really get to understand it Each Problem Solver is over 1 000 pages yet each saves hours of time in studying and finding solutions to problems These solutions are worked out in step by step detail thoroughly and clearly Each book is fully indexed for locating specific problems rapidly Detailed treatment of topics in statics friction kinematics dynamics energy relations impulse and momentum systems of particles variable mass systems and three dimensional rigid body analysis Among the advanced topics are moving coordinate frames special relativity vibrations deformable media and variational methods **Essential Classical Mechanics: Problems And Solutions** Choonkyu Lee,Hyunsoo Min,2018-07-10 The authors of this book offer a very strong reason for the study of classical mechanics describing it as the base on which the whole pyramid of modern physics has been erected In order that students can gauge their understanding of the various topics many exercises are introduced Some of those should be straightforward whilst others are quite challenging The authors are to be thanked for delivering a highly readable text which should assure a continued supply of practitioners of classical mechanics and its applications Contemporary PhysicsProblem solving in physics is not simply a test of understanding but an integral part of learning This book contains complete step by step solutions for all exercise problems in Essential Classical Mechanics with succinct chapter by chapter summaries of key concepts and formulas The degree of difficulty with problems varies from quite simple to very challenging but none too easy as all problems in physics demand some subtlety of intuition The emphasis of the book is not so much in acquainting students with various problem solving techniques as in suggesting ways of thinking For undergraduate and graduate students as well as those involved in teaching classical mechanics this book can be used as a supplementary text or as an independent study aid Classical Mechanics Illustrated By Modern Physics: 42 Problems With Solutions Guery-odelin David,Lahaye Thierry,2010-08-26 In many fields of modern physics classical mechanics plays a key role However the teaching of mechanics at the undergraduate level often confines the applications to old fashioned devices such as combinations of springs and masses pendulums or rolling cylinders This book provides an illustration of classical mechanics in the form of problems at undergraduate level inspired for the most part by contemporary research in physics and resulting from the teaching and research experience of the authors A noticeable feature of this book is that it emphasizes the experimental aspects of a large majority of problems All problems are accompanied by detailed solutions the calculations are clarified and their physical significance commented on in depth Within the solutions the basic concepts from undergraduate lectures in classical mechanics necessary to solve the problems are recalled when needed The authors systematically mention recent bibliographical references most of them freely accessible via the Internet allowing the reader to deepen their understanding of the subject and thus contributing to the

building of a general culture in physics a *Fluid Mechanics* Joseph H. Spurk,Nuri Aksel,2019-12-02 This successful textbook emphasizes the unified nature of all the disciplines of Fluid Mechanics as they emerge from the general principles of continuum mechanics The different branches of Fluid Mechanics always originating from simplifying assumptions are developed according to the basic rule from the general to the specific The first part of the book contains a concise but readable introduction into kinematics and the formulation of the laws of mechanics and thermodynamics The second part consists of the methodical application of these principles to technology In addition sections about thin film flow and flow through porous media are included **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 r sum de l diteur *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 Mechanics Made Easy David G Reynolds,2005-12-20 The fascinating subject of mechanics provides an insight and the inter relationships between mass time distance velocity momentum acceleration force energy and power In turn this improves our understanding of the workings of our everyday world An effective way to learn about mechanics is to solve mechanics problems Mechanics Made Easy How To Solve Mechanics Problems is designed to supplement standard introductory level school college and university texts on this subject The book consists of over 300 mechanics problems and step bystep worked solutions in twelve topics Velocity and Acceleration Relative Motion Projectiles Circular motion Collisions Laws of Motion Jointed Rods Equilibrium Motion of a

Rigid Body Hydrostatics Differentiation and Integration Simple Harmonic Motion Over 500 clear concise diagrams are provided to assist understanding of both problems and solutions Working through these problems can help the reader improve problem solving skills and gain the confi dence to tackle similar questions **Solving Practical Engineering Mechanics Problems** Sayavur I. Bakhtiyarov,2018-04-10 Intro Acknowledgments Topic K 1 1 1 Determining Velocity and Acceleration of Particles by Given Equations of Motion 1 2 Sample Problem 1 3 Solution Topic K 2 2 1 Determination of Velocities and Accelerations of Particles of Rigid Bodies Being in Translational and Rotational Motions 2 2 Sample Problem 2 3 Solution Topic K 3 3 1 Determination of Velocities of Rigid Body in Plane Motion 3 2 Sample Problem 3 3 Solution Topic K 4 4 1 Determination of Velocities and Accelerations of Points of Rigid Body in Plane Motion 4 2 Sample Problem 4 3 Solution Topic K 5 5 1 Determination of Absolute Velocity and Absolute Acceleration of Particle 5 2 Sample Problem 5 3 Solution Topic K 6 6 1 Determination of Absolute Velocity and Absolute Acceleration of Particle in Rotational Transfer Motion 6 2 Sample Problem 6 3 Solution Author Biography Blank Page *Fluid Mechanics* Spurk,1934 **Lagrangian Mechanics Problems and Solutions** Yiannis Menis, History of Classical Mechanics Classical Mechanics is one of the most important foundations of theoretical physics The term Classical Mechanics refers to the system of mathematical physics that began in the 17th century by Isaac Newton based on the astronomical theories of Johannes Kepler and Tycho Brahe This theory has been expanded and reformed by Lagrange and Hamilton Lagrangian Mechanics is one of the two fundamental branches of Analytical Dynamics along with Hamiltonian Mechanics It was formulated by the French mathematician Lagrange in the period 1783 88 In 1755 the Euler Lagrange equation appears At that time both 19 year old Lagrange and 48 year old Euler are looking for a solution to the equinox problem Lagrange arrives at a solution in 1755 and sends it to Euler who processes it in order to arrive at a formula based on the Principle of Least Action according to which the path of a particle is the one that yields a stationary value of the action Quantum Mechanics can be established with aforementioned principle in conjunction with path integrals The latter were introduced by Dirac and Feynman The study of the problems of classical mechanics continued in the 20th century by great mathematicians such as Henri Poincare reaching to date with the non linear dynamics and the introduction of the concept of Chaos Classical Mechanics is an inexhaustible source of new issues and concerns This book aspires to be a small aid in the hands of the reader who wishes to begin his work with this great piece of physics with a brief but comprehensive reference to theory and a satisfactory collection of solved exercises Book presentation This book consists of 143 solved problems accompanied by several images designed to enhance the understanding of the exercises The fundamental theory is presented in a question and answer format and each exercise is accompanied by a set of remarks and reminders Lagrangian Mechanics Problems and Solutions is tailored for undergraduate students of Science and Polytechnics Key Features 1 Solved Problems The book contains 143 solved problems related to Lagrangian Mechanics These problems are cover various aspects of the subject allowing readers to practice and apply

theoretical concepts to real world scenarios 2 Comprehensive Reference The book serves as a comprehensive reference for Lagrangian Mechanics covering fundamental theories and principles It is to provide explanations of key concepts and equations offering readers a solid foun dation in the subject 3 Question and Answer Format The book present its content in a question and answer format making it easier for readers to follow along and understand the material This approach helps to engage readers actively in the learning process 4 Images for Enhanced Understanding The inclusion of images in the book may aid in visualizing the concepts and solutions Diagrams graphs and illustrations can enhance the reader s understanding of the theoretical concepts and problem solving techniques 5 Remarks and Reminders Each exercise may be accompanied by remarks and reminders providing additional insights and clarifications related to the solved problems These notes can help readers avoid common pitfalls and develop a deeper understanding of the solutions 6 Tailored for Undergraduate Students The book is be designed specifically for undergraduate students of Science and Polytechnics with the level of content appropriate for those pursuing degrees in physics engineering mathematics or related disciplines 7 Practical Application The book may emphasize practical application focusing on how Lagrangian Mechanics principles are used in real world scenarios and engineering applications This approach can help readers see the relevance of the subject in various fields *Problems & Solutions in Nonrelativistic Quantum Mechanics* Anton Z. Capri,2002 This invaluable book consists of problems in nonrelativistic quantum mechanics together with their solutions Most of the problems have been tested in class The degree of difficulty varies from very simple to research level The problems illustrate certain aspects of quantum mechanics and enable the students to learn new concepts as well as providing practice in problem solving The book may be used as an adjunct to any of the numerous books on quantum mechanics and should provide students with a means of testing themselves on problems of varying degrees of difficulty It will be useful to students in an introductory course if they attempt the simpler problems The more difficult problems should prove challenging to graduate students and may enable them to enjoy problems at the forefront of quantum mechanics **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 **Physics Problems with Solutions - Mechanics** Octavian Radu,2014-11-10 This book is a collection of Physics

problems useful for preparing Olympiads and Contests   **Mathematical Questions and Solutions** ,1881

Reviewing **Mechanics Problems And Solutions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Mechanics Problems And Solutions**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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