

# 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  $\hat{B}f(x) = \frac{df}{dx}$  for any  $f(x)$ , show that  $[\hat{A}, \hat{B}] = 0$

**Solution**

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

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

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

$$\text{or} \quad (\hat{A} \hat{B} - \hat{B} \hat{A}) f(x) = 0$$

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  $\psi$  is arbitrary,  $[\hat{x}, \hat{p}_x] = i\hbar$  ■

### Problem-3

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

# Quantum Mechanics Solutions Problems

**H.A. Mavromatis**



## Quantum Mechanics Solutions Problems:

*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

*Quantum Mechanics :Through Problems* V. K. Thankappan, 2003 The Importance Of Problem Solving In Understanding The Principles And Applications Of Quantum Mechanics Cannot Be Over Emphasized As Such The Book Will Be A Valuable Tool For The Students Of Quantum Mechanics The Book Is Divided Into Two Parts The First Part Is Composed Of 8 Chapters Entitled Linear Vector Spaces Quantum Dynamics Theory Of Angular Momentum Symmetry And Conservation Laws Scattering Theory Approximation Methods Identical Particles And Relativistic Wave Equations Each Chapter Consists Of A List Of Problems Preceded By A Brief Write Up On The Topic Of The Chapter The Detailed Solutions To The Problems Are Given In The Second Part Chapter 9 Which Is Divided Into Sections Each Section Corresponding To A Chapter Of The Same Title Such A Physical Separation Of The Solutions From The Problems Is Intended To Encourage Students To Attempt Their Own Solutions Before Looking Up The Solutions Given In The Book

**Problems in Quantum Mechanics** Emilio d'Emilio, Luigi E. Picasso, 2012-02-28 242 solved problems of several degrees of difficulty in nonrelativistic Quantum Mechanics ranging from the themes of the crisis of classical physics through the achievements in the framework of modern atomic physics down to the still alive more intriguing aspects connected e g with the EPR paradox the Aharonov Bohm effect quantum teleportation

**Exercises in Quantum Mechanics** H.A. Mavromatis, 2013-06-29 This monograph is written within the framework of the quantum mechanical paradigm It is modest in scope in that it is restricted to some observations and solved illustrative problems not readily available in any of the many standard and several excellent texts or books with solved problems that have been written on this subject Additionally a few more or less standard problems are included for continuity and purposes of comparison The hope is that the points made and problems solved will give the student some additional insights and a better grasp of this fascinating but mathematically somewhat involved branch of physics The hundred and fourteen problems discussed have intentionally been chosen to involve a minimum of technical complexity while still illustrating the consequences of the quantum mechanical formalism Concerning notation useful expressions are displayed in rectangular boxes while calculational details which one may wish to skip are included in square brackets

Problems in Quantum Mechanics Gordon Leslie Squires, 1995-03-16 Many students

find quantum mechanics conceptually difficult when they first encounter the subject In this book the postulates and key applications of quantum mechanics are well illustrated by means of a carefully chosen set of problems complete with detailed step by step solutions Beginning with a chapter on orders of magnitude a variety of topics are then covered including the mathematical foundations of quantum mechanics Schrödinger's equation angular momentum the hydrogen atom the harmonic oscillator spin time independent and time dependent perturbation theory the variational method multielectron atoms transitions and scattering Throughout the physical interpretation or application of certain results is highlighted thereby providing useful insights into a wide range of systems and phenomena This approach will make the book invaluable to anyone taking an undergraduate course in quantum mechanics

**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

**Problems And Solutions In Nonrelativistic Quantum Mechanics**

Anton Z Capri, 2002-12-13 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

Problems And Solutions On Quantum Mechanics (Second Edition)

Swee Cheng Lim, Choy Heng Lai, Leong-chuan Kwek, 2022-06-02 This volume is a comprehensive 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 the basic principles of quantum phenomena particles in potentials motion in electromagnetic fields perturbation theory and scattering theory among many others 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 quantum 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 *Solution Manual to Accompany Volume I of Quantum Mechanics by Cohen-Tannoudji, Diu and Laloë* Guillaume Merle, Oliver J. Harper, Philippe Ribiere, 2023-07-19 Solution Manual to Accompany Volume I of Quantum Mechanics by Cohen Tannoudji Diu and Lalo Grasp the fundamentals of quantum mechanics with this essential set of solutions Quantum mechanics with its counter intuitive premises and its radical variations from classical mechanics or electrodynamics is both among the most important components of a modern physics education and one of the most challenging It demands both a theoretical grounding and a grasp of mathematical technique that take time and effort to master Students working through quantum mechanics curricula generally practice by working through increasingly difficult problem sets such as those found in the seminal Quantum Mechanics volumes by Cohen Tannoudji Diu and Lalo This solution manual accompanies Volume I and offers the long awaited detailed solutions to all 69 problems in this text Its accessible format provides explicit explanations of every step focusing on both the physical theory and the formal mathematics to ensure students grasp all pertinent concepts It also includes guidance for transferring the solution approaches to comparable problems in quantum mechanics Readers also benefit from Approximately 70 figures to clarify key steps and concepts Detailed explanations of problems concerning quantum mechanics postulates mathematical tools properties of angular momentum and more This solution manual is a must have for students in physics chemistry or the materials sciences looking to master these challenging problems as well as for instructors looking for pedagogical approaches to the subject

**Problems and Solutions in Quantum Chemistry and Physics** Charles Sidney Johnson, Lee G. Pedersen, 1986-01-01 Two hundred and eighty problems with detailed solutions plus 139 exercises all covering quantum mechanics wave mechanics angular momentum molecular spectroscopy scattering theory and related subjects An excellent problem book I would highly recommend it as a required supplement to students taking their first quantum chemistry course Journal of the American Chemical Society *Introduction To Quantum Mechanics: Solutions To Problems* John Dirk Walecka, 2021-08-05 The author has published two texts on classical physics Introduction to Classical Mechanics and Introduction to Electricity and Magnetism both meant for initial one quarter physics courses The latter is based on a course taught at Stanford several years ago with over 400 students enrolled These lectures aimed at the very best students assume a good concurrent course in calculus they are otherwise self contained Both texts contain an extensive set of accessible problems that enhances and extends the coverage As an aid to teaching and learning the solutions to these problems have now been published in additional texts A third published text completes the first year introduction to physics with a set of lectures on Introduction to Quantum Mechanics the very successful theory of the microscopic world The Schrödinger equation is motivated and

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**Quantum Mechanics** Victor Galitski,Boris Karnakov,Vladimir Kogan,2013-03-01 A series of seminal technological revolutions has led to a new generation of electronic devices miniaturized to such tiny scales where the strange laws of quantum physics come into play There is no doubt that unlike scientists and engineers of the past technology leaders of the future will have to rely on quantum mechanics in their everyday work This makes teaching and learning the subject of paramount importance for further progress Mastering quantum physics is a very non trivial task and its deep understanding can only be achieved through working out real life problems and examples It is notoriously difficult to come up with new quantum mechanical problems that would be solvable with a pencil and paper and within a finite amount of time This book remarkably presents some 700 original problems in quantum mechanics together with detailed solutions covering nearly 1000 pages on all aspects of quantum science The material is largely new to the English speaking audience The problems have been collected over about 60 years first by the lead author the late Prof Victor Galitski Sr Over the years new problems were added and the material polished by Prof Boris Karnakov Finally Prof Victor Galitski Jr has extended the material with new problems particularly relevant to modern science *Quantum Mechanics: Problems with Solutions, Volume 6:*

*Problems with Solutions* Konstantin K. Likharev,2019-05-22 Quantum 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 readers convenience the problem assignments are reproduced in this volume **Problems And Solutions On Quantum Mechanics** Yung-kuo Lim,1998-09-28 The material

for these volumes has been selected from the past twenty years examination questions for graduate students at the University of California at Berkeley Columbia University the University of Chicago MIT the State University of New York at Buffalo Princeton University and the University of Wisconsin **Quantum Mechanics** Lanbrecht Piet Kok,J. Visser,1996

Quantum Mechanics 500 Problems with Solutions Mr. Sanjeev Pandey,2024-08-16 This book provides 500 carefully selected problems in quantum mechanics each with a detailed solution designed to strengthen conceptual understanding and problem solving skills for students and researchers in physics and chemistry Introduction To Modern Physics: Solutions To Problems Paolo Amore,John Dirk Walecka,2013-08-16 Our understanding of the physical world was revolutionized in the twentieth century the era of modern physics The book Introduction to Modern Physics Theoretical Foundations aimed at the

very best students presents the foundations and frontiers of today's physics. Typically students have to wade through several courses to see many of these topics. The goal is to give them some idea of where they are going and how things fit together as they go along. The book focuses on the following topics: quantum mechanics applications in atomic nuclear particle and condensed matter physics, special relativity, relativistic quantum mechanics including the Dirac equation and Feynman diagrams, quantum fields and general relativity. The aim is to cover these topics in sufficient depth that things make sense to students and they achieve an elementary working knowledge of them. The book assumes a one year calculus based freshman physics course along with a one year course in calculus. Several appendices bring the reader up to speed on any additional required mathematics. Many problems are included, a great number of which take dedicated readers just as far as they want to go in modern physics. The present book provides solutions to the over 175 problems in *Introduction to Modern Physics*. Theoretical Foundations in what we believe to be a clear and concise fashion.

Problems and Solutions on Mechanics  
Yung-kuo Lim, 1994  
Newtonian mechanics dynamics of a point mass 1001 1108  
Dynamics of a system of point masses 1109 1144  
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**Problem Solving in Quantum Mechanics** Marc Cahay, Supriyo Bandyopadhyay, 2017-03-14  
This topical and timely textbook is a collection of problems for students, researchers and practitioners interested in state of the art material and device applications in quantum mechanics. Most problems are relevant either to a new device or a device concept or to current research topics which could spawn new technology. It deals with the practical aspects of the field presenting a broad range of essential topics currently at the leading edge of technological innovation. Includes discussion on Properties of Schrodinger Equation, Operators, Bound States in Nanostructures, Current and Energy Flux Densities in Nanostructures, Density of States, Transfer and Scattering Matrix Formalisms for Modelling Diffusive Quantum Transport, Perturbation Theory, Variational Approach and their Applications to Device Problems, Electrons in a Magnetic or Electromagnetic Field and Associated Phenomena, Time dependent Perturbation Theory and its Applications, Optical Properties of Nanostructures. Problems in Quantum Mechanics For Material Scientists, Applied Physicists and Device Engineers is an ideal companion to engineering condensed matter physics or materials science curricula. It appeals to future and present engineers, physicists and materials scientists as well as professionals in these fields needing more in depth understanding of nanotechnology and nanoscience.

Solution Manual to Accompany Volume II of Quantum Mechanics by Cohen-Tannoudji, Diu and Laloë Guillaume Merle, Oliver J. Harper, 2024-09-16  
Provides detailed solutions to all 47 problems in the seminal textbook *Quantum Mechanics Volume II*. With its counter intuitive premises and its radical variations from classical mechanics or electrodynamics, quantum mechanics is among the most important and challenging components of a modern physics education. Students tackling quantum mechanics curricula generally practice by working through increasingly difficult problem sets that demand both a

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