

# Problems

Jose

The wave function of a particle in a box of length  $L$  is

$$\psi(x) = \sqrt{\frac{2}{L}} \sin\left(\frac{\pi x}{L}\right) \quad 0 < x < L \quad \text{and} \quad \psi(x) = 0 \quad x < 0 \text{ \& } x > L$$

Find the probability of finding the particle in the region  $0 < x < L/2$

$$\text{Probability} = \int_{-\infty}^{\infty} \psi \psi^* dx$$

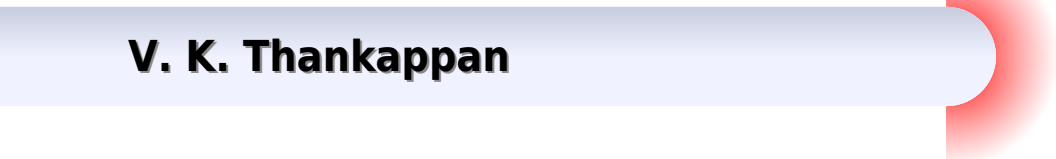
In this problem particle is confined within a box of  $L$  and we need to find the probability of finding the particle between  $x = 0$  &  $x = L/2$

$$\int_0^{\frac{L}{2}} \psi \psi^* dx = \int_0^{\frac{L}{2}} \sqrt{\frac{2}{L}} \sin\left(\frac{\pi x}{L}\right) \sqrt{\frac{2}{L}} \sin\left(\frac{\pi x}{L}\right) dx = \frac{2}{L} \int_0^{\frac{L}{2}} \sin^2\left(\frac{\pi x}{L}\right) dx$$

$$= \frac{2}{L} \int_0^{\frac{L}{2}} \frac{1 - \cos\left(\frac{2\pi x}{L}\right)}{2} dx = \frac{1}{L} \left\{ \frac{L}{2} - 0 \right\} = \frac{1}{2} = 0.5$$

# Quantum Mechanics Problems

**V. K. Thankappan**



## **Quantum Mechanics Problems:**

**Problems in Quantum Mechanics** Emilio d'Emilio, Luigi E. Picasso, 2017-03-02 This second edition of an extremely well received book presents more than 250 nonrelativistic quantum mechanics problems of varying difficulty with the aim of providing students didactic material of proven value allowing them to test their comprehension and mastery of each subject The coverage is extremely broad from themes related to the crisis of classical physics through achievements within the framework of modern atomic physics to lively debated intriguing aspects relating to for example the EPR paradox the Aharonov Bohm effect and quantum teleportation Compared with the first edition a variety of improvements have been made and additional topics of interest included especially focusing on elementary potential scattering The problems themselves range from standard and straightforward ones to those that are complex but can be considered essential because they address questions of outstanding importance or aspects typically overlooked in primers The book offers students both an excellent tool for independent learning and a ready reference guide they can return to later in their careers Problems in

Quantum Mechanics F. Constantinescu, E. Magyari, 2013-10-22 International Series in Natural Philosophy Volume 30 Problems in Quantum Mechanics focuses on the processes principles reactions and methodologies involved in quantum mechanics The publication first elaborates on the mathematical formalism of quantum mechanics simple quantum systems and mean values and uncertainty relations Discussions focus on mean values of dynamical variables uncertainty relations eigenfunctions and the energy spectrum motion in a central field matrix representation of vectors and operators Hilbert spaces and operators in Hilbert space The text then takes a look at mean values and uncertainty relations semi classical approximation and pictures and representations The book takes a look at orbital angular momentum and spin systems of identical particles and perturbation theory Topics include variational method stationary state perturbation theory isotopic spin second quantization properties of angular momentum operators and angular momentum and rotations of coordinate axes The manuscript also ponders on functions used in quantum mechanics relativistic quantum mechanics and radiation theory The publication is a dependable reference for researchers interested in quantum mechanics **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 **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     *Exploring Quantum Mechanics* Viktor Mikhaïlovich Galit'skiï,Boris Karnakov,Vladimir Il'ich

Kogan,2013-02-28 A unique resource on quantum physics that contains original problems with solutions that can be used by teachers and students of quantum mechanics at graduate and undergraduate level Numerous tricks of the trade in solving quantum physics problems are included which can also be used by professional researchers in all fields of modern physics

*Problems in Quantum Mechanics* D. ter Haar,2014-08-20 This wide ranging collection of problems and solutions covers one dimensional motion tunnel effect angular momentum central field of force motion of particles in a magnetic field scattering relativistic wave equations and much more 1975 edition     **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 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.

*Exercises in Quantum Mechanics* H.A. Mavromatis, 1992. 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.

Beirut HARRY A MAVROMATIS June 1985 IX Preface to Second Edition. More than five years have passed since I prepared the first edition of this monograph. The present revised edition is more attractive in layout than its predecessor and most if not all of the errors in the original edition, many of which were kindly pointed out by reviewers, colleagues and students, have now been corrected. Additionally, the material in the original fourteen chapters has been extended with significant additions to Chapters 8, 13 and 14.

Fundamental Problems in Quantum Physics M. Ferrero, Alwyn van der Merwe, 2013-06-29. For many physicists, quantum theory contains strong conceptual difficulties while for others the apparent conclusions about the reality of our physical world and the ways in which we discover that reality remain philosophically unacceptable. This book focuses on recent theoretical and experimental developments in the foundations of quantum physics, including topics such as the puzzles and paradoxes which appear when general relativity and quantum mechanics are combined, the emergence of classical properties from quantum mechanics, stochastic electrodynamics, EPR experiments and Bell's Theorem, the consistent histories approach and the problem of datum uniqueness in quantum mechanics, non-local measurements and teleportation of quantum states, quantum non-demolition measurements in optics and matter wave properties observed by neutron, electron and atomic interferometry.

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