

Quantum Mechanics

Solutions to Graduate Exam

Summer, 2014

Each problem is worth 25 points. The points for individual parts are marked in square brackets. Some useful formulas are given at the end of the exam. To ensure full credit, show your work. Do any four (4) of the following five (5) problems. If you attempt all 5 problems you must clearly state which 4 problems you want to have graded.

1. A two-state quantum system has Hamiltonian given by

$$H = \hbar\omega \begin{pmatrix} 3 & 4 \\ 4 & -3 \end{pmatrix},$$

where ω is a constant.

(a) [8 points] Find the eigenstates and normalized eigenvectors of this Hamiltonian.

We start by pulling out the common factor of $\hbar\omega$, and then try to find the eigenvalues of the remaining matrix (which must be multiplied by $\hbar\omega$) and corresponding eigenvectors (which do not). We subtract λ times the identity matrix and set the determinant to zero, to yield

$$0 = \det \begin{pmatrix} 3 - \lambda & 4 \\ 4 & -3 - \lambda \end{pmatrix} = (3 - \lambda)(-3 - \lambda) - 4 \cdot 4 = -9 + 3\lambda - 3\lambda + \lambda^2 - 16 = \lambda^2 - 25,$$
$$\lambda = \pm 5.$$

The eigenvectors can then be found by solving the equation

$$\begin{pmatrix} 3 & 4 \\ 4 & -3 \end{pmatrix} \begin{pmatrix} \alpha \\ \beta \end{pmatrix} = \pm 5 \begin{pmatrix} \alpha \\ \beta \end{pmatrix},$$
$$3\alpha + 4\beta = \pm 5\alpha \quad \text{and} \quad 4\alpha - 3\beta = \pm 5\beta,$$
$$(3 \mp 5)\alpha = -4\beta \quad \text{and} \quad 4\alpha = (3 \pm 5)\beta.$$

We now need to work out each of the cases. If we take the upper sign, the equations become $-2\alpha = -4\beta$ and $4\alpha = 8\beta$, which are identical equations, so $\alpha = 2\beta$. Getting the normalization right demands that $1 = \alpha^2 + \beta^2 = 5\beta^2$, which then gives you your first normalized eigenstate. If we take the lower sign, then equations become $8\alpha = -4\beta$ and $4\alpha = -2\beta$, so $\beta = -2\alpha$. Normalizing again demands $1 = \alpha^2 + \beta^2 = 5\alpha^2$. So we have our two eigenvalues and eigenvectors:

$$|+\rangle = \frac{1}{\sqrt{5}} \begin{pmatrix} 2 \\ 1 \end{pmatrix} \quad \text{and} \quad |-\rangle = \frac{1}{\sqrt{5}} \begin{pmatrix} 1 \\ -2 \end{pmatrix}.$$

These states form a complete orthonormal set. The eigenvalues are $\pm 5\hbar\omega$.

Quantum Mechanics Exam Solutions

B Lingard



Quantum Mechanics Exam Solutions:

Conquering the Physics GRE Yoni Kahn, Adam Anderson, 2018-03-01 The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph D programs yet few exam prep books focus on the test's actual content and unique structure Recognized as one of the best student resources available this tailored guide has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score

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Maple in Mathematics Education and Research Jürgen Gerhard, Ilias Kotsireas, 2020-02-27 This book constitutes the refereed proceedings of the third Maple Conference MC 2019 held in Waterloo Ontario Canada in October 2019 The 21 revised full papers and 9 short papers were carefully reviewed and selected out of 37 submissions one invited paper is also presented in the volume The papers included in this book cover topics in education algorithms and applications of the mathematical software Maple *Annual Catalog - United States Air Force Academy* United States Air Force Academy, 1979

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

Optics and Spectroscopy, 2001 **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 American Journal of Physics, 2002

Tests Richard C. Sweetland, 1991 Provides descriptive information on some 3 200 tests for the benefit of test evaluators and others who need to determine if a test suits their purposes Each entry includes test name and author an indication of the population for which the test is intended how the test is administered major features of the test how the test is timed and scored pricing and availability information and publisher and distributor Cross referenced and indexed eight ways Distributed by Gale Research Annotation copyrighted by Book News Inc Portland OR *McGraw-Hill Concise Encyclopedia of Science and Technology, Sixth Edition* McGraw-Hill Education, 2009-06-10

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Physics Briefs, 1994 [Science Abstracts](#), 1958 *Problems and Solutions on Quantum Mechanics* Yung-Kuo Lim, 1998

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colloids Hari Singh Nalwa, 2001 This handbook brings together under a single cover all aspects of the chemistry physics and engineering of surfaces and interfaces of materials currently studied in academic and industrial research It covers different experimental and theoretical aspects of surfaces and interfaces their physical properties and spectroscopic techniques that have been applied to a wide class of inorganic organic polymer and biological materials The diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization The large volume of experimental data on chemistry physics and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals therefore this handbook compilation is needed The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic These five volumes Surface and Interface Phenomena Surface Characterization and Properties Nanostructures Micelles and Colloids Thin Films and Layers Bionterfaces and Applications provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world Fully cross referenced this book has clear precise and wide appeal as an essential reference source long due for the scientific community The complete reference on the topic of surfaces and interfaces of materials The information presented in this multivolume reference draws on two decades of pioneering research Provides multidisciplinary review chapters and summarizes the current status of the field Covers important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques Contributions from internationally recognized experts from all over the world *The Advisor, Teacher-course Evaluation* University of Illinois at Urbana-Champaign. Student Senate, 1969 **Geometrical**

Structure in Semiclassical Trace Formulas Stephen Christopher Creagh,1991
& *Index* ,1985-05 Announcer American Association of Physics Teachers,2003

Government Reports Announcements
Modern Physics Wolfson,1999

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