

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

David Warren Ball



Quantum Mechanics Exam Solutions:

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 A Guide to Physics Problems Sidney B. Cahn, Gerald D. Mahan, Boris E. Nadgorny, 1994 This text features 182 challenging problems with detailed solutions textbook references clear illustrations and an easy to use layout Conquering the Physics GRE Yoni Kahn, Adam Anderson, 2018-03 A self contained guide to the Physics GRE reviewing all of the topics covered alongside three practice exams with fully worked solutions **Engineering Physics Exam Review** Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com **2024-25 NTA NEET Chemistry Solved Papers** YCT Expert Team , 2024 25 NTA NEET Chemistry Solved Papers *Electromagnetism - Principles And Modern Applications: With Exercises And Solutions* Christopher White, 2023-03-14 Electromagnetism is one of the four fundamental forces in nature and underlies almost everything we experience in our daily lives whether we realise it or not The complete theory was first written down in the late 19th century and remains an essential part of a scientific education The mathematics behind the theory however can be intimidatingly complex Furthermore it is not always clear to beginners why the theory is either useful or interesting nor how it relates to modern research in theoretical physics The aim of this book is to guide students towards a detailed understanding of the full theory of electromagnetism including its practical applications Later chapters introduce more modern formulations of the theory than are found in traditional undergraduate courses thus bridging the gap between a first course in electromagnetism and the advanced concepts needed for further study in physics The final chapter reviews exciting current research stating that possible theories of quantum gravity may be much more closely related to

electromagnetism than previously thought Throughout the book an informal conversational style is used to demystify intimidating concepts Relevant mathematical ideas are introduced in a self contained manner and exercises are provided with full solutions to aid understanding This book is essential reading for anyone undertaking a physics degree but will also be of interest to engineers and chemists *United States Air Force Academy United States Air Force Academy,1985*

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