

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 Kirk



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Table of Contents Quantum Mechanics Exam Solutions

1. Understanding the eBook Quantum Mechanics Exam Solutions
 - The Rise of Digital Reading Quantum Mechanics Exam Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Quantum Mechanics Exam Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Quantum Mechanics Exam Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Quantum Mechanics Exam Solutions
 - Personalized Recommendations
 - Quantum Mechanics Exam Solutions User Reviews and Ratings
 - Quantum Mechanics Exam Solutions and Bestseller Lists

5. Accessing Quantum Mechanics Exam Solutions Free and Paid eBooks
 - Quantum Mechanics Exam Solutions Public Domain eBooks
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 - Highlighting and Note-Taking Quantum Mechanics Exam Solutions
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Quantum Mechanics Exam Solutions
9. Balancing eBooks and Physical Books Quantum Mechanics Exam Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Quantum Mechanics Exam Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Quantum Mechanics Exam Solutions
 - Setting Reading Goals Quantum Mechanics Exam Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Quantum Mechanics Exam Solutions
 - Fact-Checking eBook Content of Quantum Mechanics Exam Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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