

Homework Set #5 – Solutions

1. This problem is essentially Messiah, Chapter 18, Problem 4 (or Sakurai, Chapter 5, Problem 1). Consider a one-dimensional harmonic oscillator perturbed by a constant force

$$H = \frac{p^2}{2m} + \frac{1}{2}m\omega^2 x^2 - Fx$$

- a) Show that the first order perturbation in the energy levels vanishes.

Since we will need to find the second order perturbation in part b), let us consider the general matrix element

$$V_{mn} = -F \langle m^{(0)} | x | n^{(0)} \rangle$$

The operator x is given in terms of creation and annihilation operators by $x = \sqrt{\hbar/(2m\omega)}(a^\dagger + a)$. Thus

$$\begin{aligned} V_{mn} &= -F \sqrt{\frac{\hbar}{2m\omega}} \langle m^{(0)} | (a^\dagger + a) | n^{(0)} \rangle \\ &= -F \sqrt{\frac{\hbar}{2m\omega}} [\sqrt{n+1} \delta_{m,n+1} + \sqrt{n} \delta_{m,n-1}] \end{aligned}$$

This indicates that the x operator changes the oscillator number by ± 1 . In particular, $V_{nn} = 0$, which demonstrates that the first order energy perturbation vanishes.

- b) Now calculate the eigenenergies E_n up to second order in the perturbation.

Using the matrix element calculated above, we find

$$\begin{aligned} E_n^{(2)} &= \sum_{k \neq n} \frac{|V_{kn}|^2}{E_n^{(0)} - E_k^{(0)}} = \frac{|V_{n+1,n}|^2}{E_n^{(0)} - E_{n+1}^{(0)}} + \frac{|V_{n-1,n}|^2}{E_n^{(0)} - E_{n-1}^{(0)}} \\ &= F^2 \frac{\hbar}{2m\omega} \left[\frac{n+1}{-\hbar\omega} + \frac{n}{\hbar\omega} \right] = -\frac{F^2}{2m\omega^2} \end{aligned}$$

Combined with the zeroth order energy, this gives

$$E_n = (n + \frac{1}{2})\hbar\omega - \frac{F^2}{2m\omega^2}$$

- c) Show that the second-order perturbation result gives the exact eigenenergies (which may be obtained by completing the square in H). Explain why this happens.

Sakurai Solutions Chapter 4

Anthony S. Fauci



Sakurai Solutions Chapter 4:

This book delves into Sakurai Solutions Chapter 4. Sakurai Solutions Chapter 4 is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Sakurai Solutions Chapter 4, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Sakurai Solutions Chapter 4
- Chapter 2: Essential Elements of Sakurai Solutions Chapter 4
- Chapter 3: Sakurai Solutions Chapter 4 in Everyday Life
- Chapter 4: Sakurai Solutions Chapter 4 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Sakurai Solutions Chapter 4. The first chapter will explore what Sakurai Solutions Chapter 4 is, why Sakurai Solutions Chapter 4 is vital, and how to effectively learn about Sakurai Solutions Chapter 4.
3. In chapter 2, the author will delve into the foundational concepts of Sakurai Solutions Chapter 4. This chapter will elucidate the essential principles that need to be understood to grasp Sakurai Solutions Chapter 4 in its entirety.
4. In chapter 3, this book will examine the practical applications of Sakurai Solutions Chapter 4 in daily life. This chapter will showcase real-world examples of how Sakurai Solutions Chapter 4 can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Sakurai Solutions Chapter 4 in specific contexts. The fourth chapter will explore how Sakurai Solutions Chapter 4 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Sakurai Solutions Chapter 4. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Sakurai Solutions Chapter 4.

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