

## Perturbation theory

1. Given a system with Hamiltonian:  $\hat{H} = \hat{H}_0 + \lambda \hat{H}_1$  where  $\lambda \hat{H}_1$  is small perturbation. Use perturbation theory to show that:
  - a. The first and second order correction terms to the energy of the system are given by:

$$\epsilon_m^{(1)} = \langle \psi_m^{(0)} | H_1 | \psi_m^{(0)} \rangle$$

$$\epsilon_m^{(2)} = \sum_{k \neq m} \frac{|\langle \psi_k^{(0)} | H_1 | \psi_m^{(0)} \rangle|^2}{\epsilon_m^{(0)} - \epsilon_k^{(0)}}$$

Where  $|\psi_m^{(0)}\rangle$  are the eigenstates of the unperturbed Hamiltonian  $\hat{H}_0$ :

$$\hat{H}_0 |\psi_m^{(0)}\rangle = \epsilon_m^{(0)} |\psi_m^{(0)}\rangle$$

- b. The first order correction term to the wavefunction is given by:

$$|\psi_m^{(1)}\rangle = \sum_{k \neq m} c_{mk}^{(1)} |\psi_k^{(0)}\rangle$$

$$c_{mk}^{(1)} = \frac{\langle \psi_k^{(0)} | H_1 | \psi_m^{(0)} \rangle}{(\epsilon_m^{(0)} - \epsilon_k^{(0)})}$$

Remember: These forms are only correct for non-degenerate states (otherwise the series doesn't converge)

# Small Perturbation Theory

**JS Bruner**



## **Small Perturbation Theory:**

## The Enigmatic Realm of **Small Perturbation Theory**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Small Perturbation Theory** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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