

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

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Small Perturbation Theory:

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