Book: Introductory Quantum Mechanics (Fitzpatrick)

- Front Matter
- 1: Probability Theory
2: Wave-Particle Duality

3: Fundamentals of Quantum Mechanics

4: One-Dimensional Potentials

5: Multi-Particle Systems

6: Three-Dimensional Quantum Mechanics
7: Orbital Angular Momentum

8: Central Potentials

9: Spin Angular Momentum

10: Addition of Angular Momentum
\[ E_n^{(1)} = \langle \phi_n | H_1 | \phi_n \rangle \]
\[ c_n = \frac{\langle \phi_n | H_1 | \phi_n \rangle}{E_n^{(0)} - E_k^{(0)}} \]
\[ E_n^{(2)} = \sum_{k \neq n} \frac{|\langle \phi_k | H_1 | \phi_n \rangle|^2}{E_n^{(0)} - E_k^{(0)}} \]

11: Time-Independent Perturbation Theory

\[ |2\rangle \rightarrow |1\rangle \]

12: Time-Dependent Perturbation Theory

13: Variational Methods

14: Scattering Theory
Contributors and Attributions

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