

Electricity and Magnetism

1. Remembering:

- Define electric field and potential
- Recall the concept of dielectric properties of matter
- Recall the formula for magnetic force between current elements
- Recall the calculation of vector potential

2. Understanding:

- Explain the relationship between electric field, potential, and dielectric properties of matter
- Understand the concept of Coulomb gauge and magnetostatic boundary conditions
- Understand the magnetic properties of matter

3. Applying:

- Apply Faraday's law of electromagnetic induction to solve problems
- Apply Kirchhoff's laws for AC circuits to analyze and solve circuit problems

4. Analyzing:

- Analyze the relationship between electric field and potential in different scenarios
- Analyze the behavior of magnetic properties in matter
- Analyze the effects of magnetic force between current elements

5. Evaluating:

- Evaluate the efficiency of using vector potential in calculations
- Evaluate the significance of electromagnetic induction in practical applications

6. Creating:

- Develop advanced methods for calculating magnetic properties in matter
- Design experiments to demonstrate Kirchhoff's laws for AC circuits and electromagnetic induction.

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