

Electromagnetic theory notes

Electromagnetism is a unified physical theory which studies study of electric and magnetic fields and their interactions with charged particles and currents. This electromagnetic theory that gives a comprehensive understanding various natural phenomena and forms the backbone nearly all modern technological applications. The study splits into various sub-disciplines of key concepts and principles of electromagnetism. It is a fundamental part of the following topics:

1. Electric Charge and Conservation

- Fundamental properties of electric charge
- Conservation of electric charge
- Electrostatics and the principle of superposition

2. Magnetic Field and Currents

- Definition of magnetic field and current field lines
- Relationship between magnetic field through amperian loops (Biot-Savart law)
- Currents produced by moving charges
- Magnetostatics and magnetic field of various conductors

3. Maxwell's Equations

- Gauss's law (Integral and differential forms)
- Application to calculate electric fields by symmetry (charge distributions)
- Electrostatic potential

4. Maxwell's Equations (Magnetic and Ampere)

- Electric properties of dielectric materials and systems of charges
- Electric properties of magnetic materials
- Displacement and its significance in optics

5. Maxwell's Equations (Gauss Law)

- Definition of electric current and its units
- Ohm's circuit laws
- Power and potential

6. Maxwell's Equations (Magnetic and Ampere)

- Definition of magnetic field and magnetic field lines
- Relationship between magnetic field and current (Biot-Savart law)
- Magnetic field of various conductors and particles in magnetic field

7. Maxwell's Equations (Gauss Law and Ampere)

- Force between two parallel current-carrying wires
- Magnetostatics and magnetic field

8. Maxwell's Equations (Magnetic and Ampere)

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