

Chapter 21: Electromagnetism

Section 21.2 Electromagnetism

Learning Objectives

After completing this section, you should be able to:

- Explain the relationship between electric and magnetic fields.
- Describe the forces between two parallel wires carrying current.
- Explain the operation of a transformer.

Reading Strategy (page 100)

Identifying related information is a key skill in reading a text. In this section, you will find the following information. Use the following strategy to find the information in the text.

Identify the main idea of the text. The main idea is the central point of the text. It is the point that the author wants to make.

Topic	Information
Electric and magnetic fields	Electric and magnetic fields are vector fields. They are produced by electric charges and currents. They are related by the equation $\nabla \times \mathbf{E} = -\frac{1}{c} \frac{d\mathbf{B}}{dt}$ and $\nabla \times \mathbf{B} = \frac{1}{c} \frac{d\mathbf{E}}{dt}$. The electric field $\mathbf{E}$ is produced by electric charges and the magnetic field $\mathbf{B}$ is produced by electric currents.
Forces between two parallel wires	Two parallel wires carrying current in the same direction attract each other. The force per unit length between two parallel wires is given by $F = \frac{\mu_0 I_1 I_2}{2\pi r}$, where μ_0 is the permeability of free space, I_1 and I_2 are the currents in the wires, and r is the distance between the wires.
Transformer	A transformer is a device that transfers electrical energy from one circuit to another through a magnetic field. It consists of two coils of wire wound around a common magnetic core. The primary coil is connected to an AC source and the secondary coil is connected to a load. The voltage across the secondary coil is given by $V_s = \frac{N_s}{N_p} V_p$, where N_s and N_p are the number of turns in the secondary and primary coils, respectively, and V_p is the voltage across the primary coil.
Induced electromotive force	An induced electromotive force (EMF) is a voltage that is induced in a conductor by a changing magnetic field. It is given by $\mathcal{E} = -\frac{d\Phi}{dt}$, where Φ is the magnetic flux through the conductor. The induced EMF is always in the direction that opposes the change in magnetic flux.
Induced current	An induced current is a current that is induced in a conductor by a changing magnetic field. It is given by $I = \frac{\mathcal{E}}{R}$, where $\mathcal{E}$ is the induced EMF and R is the resistance of the conductor. The induced current is always in the direction that opposes the change in magnetic flux.

Section 21 1 Electromagnetism Answer Key

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