

## Chapter 21: Electromagnetism

### Section 21.2 Electromagnetism

#### Learning Objectives

After completing this chapter, 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 10)

Read the chapter carefully, paying attention to the examples and worked examples. Try to understand the concepts and the relationships between them. If you are unsure about any of the concepts, refer to the Glossary and the Index.

Topic	Notes
Electric and magnetic fields	Electric and magnetic fields are vector quantities. They are produced by electric charges and currents. They interact with each other and with matter. The relationship between them is described by Maxwell's equations.
Forces between parallel wires	Two parallel wires carrying current in the same direction attract each other. Two parallel wires carrying current in opposite directions repel each other. The force per unit length between two parallel wires is given by $F/L = \frac{\mu_0 I_1 I_2}{2\pi r}$ , where $\mu_0$ is the permeability of free space, $I_1$ and $I_2$ are the currents, and $r$ is the distance between the wires.
Transformers	A transformer consists of two coils of wire wound on 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.
Electromagnetic induction	Electromagnetic induction is the process by which a changing magnetic field induces an electromotive force (EMF) in a coil of wire. The induced EMF is given by $\mathcal{E} = -\frac{d\Phi}{dt}$ , where $\Phi$ is the magnetic flux through the coil.
Electromagnetic waves	Electromagnetic waves are transverse waves that consist of oscillating electric and magnetic fields. They travel at the speed of light, $c$ , in a vacuum. The energy carried by an electromagnetic wave is given by $I = \frac{1}{2} \epsilon_0 E_0^2$ , where $\epsilon_0$ is the permittivity of free space, and $E_0$ is the amplitude of the electric field.

# Section 21 1 Electromagnetism Answer Key

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The Effect of Electromagnetic and Magnetic Fields on the Central Nervous System И.И. Андреевич Кхолодов, 1967 The basic approach of this volume is to clarify the physiological mechanism of the effect of EMF on the functions of the brain through the use of the electrophysiological and conditioned reflex methods In addition various methods of recording motor activity determining the sensitivity to electrical and chemical stimuli and certain morphological methods were used The experimental objects were different classes of vertebrates beginning with fish and ending with mammals Abstract

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