

CHAPTER OVERVIEW

16: Electricity and Magnetism

This chapter is a very brief overview of some key concepts in electricity and magnetism. Most of our modern technology is based on these concepts. In the next chapter we will use these concepts to explain how microphones, speakers and digital recording work.

Key Terms:

Ohm's law, charge, coulombs, current, amperes, electrical potential, volts, resistance, ohms, magnetic field, compass, tesla, gauss, electromagnet, force on an electric charge in a magnetic field, electric motor, Faraday's law, electric generator.

[16.1: EandM- Ohm's Law](#)

[16.1.1: Ohm's Law](#)

[16.2: EandM- Currents and Magnetic Fields](#)

[16.2.1: Currents Cause Magnetic Fields](#)

[16.2.2: Magnetic Field Simulation](#)

[16.3: EandM- Electric and Magnetic Forces](#)

[16.3.1: Currents in a Magnetic Field MAY Experience a Force](#)

[16.3.2: Electric and Magnetic Forces Simulation](#)

[16.4: EandM- Faraday's Law](#)

[16.4.1: A CHANGING Magnetic Field Can Cause Current to Flow](#)

[16.4.2: Faraday's Law Simulation](#)

This page titled [16: Electricity and Magnetism](#) is shared under a [CC BY-NC-SA 3.0](#) license and was authored, remixed, and/or curated by [Kyle Forinash and Wolfgang Christian](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.