

CHAPTER OVERVIEW

7: Magnetic Forces and Fields

For the past few chapters, we have been studying electrostatic forces and fields, which are caused by electric charges at rest. These electric fields can move other free charges, such as producing a current in a circuit; however, the electrostatic forces and fields themselves come from other static charges. In this chapter, we see that when an electric charge moves, it generates other forces and fields. These additional forces and fields are what we commonly call magnetism.

[7.1: Prelude to Magnetic Forces and Fields](#)

[7.2: Magnetism and Its Historical Discoveries](#)

[7.3: Magnetic Fields and Lines](#)

[7.4: Motion of a Charged Particle in a Magnetic Field](#)

[7.5: Magnetic Force on a Current-Carrying Conductor](#)

[7.5.1: Force and Torque on a Current Loop](#)

[7.5.2: The Hall Effect](#)

[7.6: Magnetic Forces and Fields \(Exercise\)](#)

This page titled [7: Magnetic Forces and Fields](#) is shared under a [CC BY 4.0](#) license and was authored, remixed, and/or curated by [OpenStax](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.