

Physics Chapter 37 Electromagnetic Induction Study Notes

Introduction

- a. In 1820, Oersted's discovery links the electricity and magnetism together.
- b. In 1831, Michael Faraday (England) and Joseph Henry (US) independently discovered that magnetism could produce current in a wire.
- c. Until then, the only current-producing devices were voltaic cells which produce small currents by dissolving expensive metals in acids.

Electromagnetic Induction

- a. The relative motion of a wire with respect to the magnetic field can induce voltage. It can be the magnetic field of a magnet moving past a stationary conductor, or the conductor moving through a stationary magnetic field.
- b. The amount of voltage induced depends on:
 - i) How quickly the wire traverses the magnetic field lines. Quicker motion induces a greater voltage.
 - ii) How many loops of wire that moves in a magnetic field. The voltage is proportional to the number of loops.
- c. Law of energy conservation can be applied to electromagnetic induction too. The force that you exert on the magnet multiplied by the distance that you move the magnet is the input work. This work is equal to the energy generated in the circuit to which the coil is connected.
- d. The more loops of the coil, the more voltage induced. The more voltage induced in the coil, the more current through the resistor in the circuit. The more current through the coil, the stronger the magnetic field it generated. The stronger the magnetic field generated, the stronger the repelling force acting back to your magnet. A coil with more loops is a stronger electromagnet and push back harder.
- e. When the magnetic field is induced, the polarity of the field is always a repelling force.
- f. If the coil does not connect to anything, it takes no work to plunge the magnet into the coil. . Regardless the number of loops. Though you got an induced voltage, it doesn't do anything. No current flow and no energy transferred.
- g. Any change in the magnetic field around a conductor induces a voltage. This phenomenon is called **electromagnetic induction**.

Faraday's Law

- a. Electromagnetic induction can be summarized in a statement called Faraday's law:
The induced voltage in a coil is proportional to the product of the number of loops and the rate at which the magnetic field changes within those loops.
- b. The amount of current produced by electromagnetic induction depends not only on the induced voltage but also on the resistance of the coil and the circuit to which it connected.
- c. Current also depends on the "reactance" of the coil. Reactance is similar to resistance and is important in AC circuits. It depends on the number of loops in the coil and on the frequency of the AC source.

Generators and Alternating Current

- a. If one end of a magnet is plunged in and out of a coil of wire, the induced voltage alternates on direction.
- b. The greater the frequency of the field change, the greater the induced voltage. The frequency of the induced alternating voltage equals the frequency of the changing magnetic field within the loops.
- c. Instead of moving the magnet, it is more practical to rotate the coil in a stationary magnetic field. This arrangement is called a generator. Whereas a motor converts electrical energy into mechanical energy, a generator converts mechanical energy into the electrical energy.
- d. When the loop of wire is rotating in the magnetic field, there is a change in the number of magnetic field lines within the loop. As the loop rotates, the magnitude and direction of the induced voltage and current change. One complete rotation of the loop produces one complete cycle in voltage and current.

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Judd E. Hollander



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