

ELECTROMAGNETICS

MAGNETISM - is a natural phenomenon whereby attraction or repulsion takes place. It is also a property possessed by iron, steel, nickel, cobalt and certain other magnetic materials and alloys wherein these materials can produce or can conduct magnetic line of force capable of interacting with other fields (electric or magnetic).

- **Magnetism** is a property of materials that respond to an applied magnetic field.

TYPES OF MAGNETISM

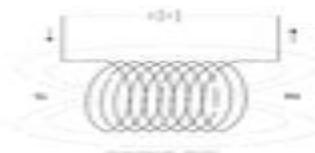
- **Ferromagnetism** - Permanent magnets have persistent magnetic fields caused by ferromagnetism. That is the strongest and most familiar type of magnetism.
- **Para magnetism** - attracted to a magnetic field
- **Diamagnetism** - repulsed by a magnetic field
- **Non-magnetic substances** - Substances that are negligibly affected by magnetic fields. They include copper, aluminum, gases, and plastic. Pure oxygen exhibits magnetic properties when cooled to a liquid state.

Brief History

- Mineral discovered around 800 BC in the town of Magnesia (now Manisa, Turkey) was found to have a wondrous property.
- It could attract pieces of iron towards it.
- The mineral is called **Magnetite** (after the place where it discovered).
- It was found that thin strips of magnetite always align themselves in particular direction when suspended freely in air.
- For this property, it was given the name "**Lead stone**" or **lodestone**. It was found out that it is mainly composed of oxide of iron (Fe_2O_3). This is now known as **magnet**.
- William Gilberts - did the first detailed study of magnetism and its properties in 1600.

ELECTROMAGNETISM - is magnetism produced by an electric current rather than by a natural magnet. It is the force that causes the interaction between electrically charged particles, are in which this happens are called electromagnetic fields.

- Manifests both electric fields and magnetic fields.
- A changing magnetic field generates an electric fields; conversely a changing magnetic field generates an electric fields, and is called electromagnetic induction, and is the basis of operation for electrical generators, induction motors and transformers.
- In 1820 Hans Christian Oersted (1777-1851 Danish) demonstrated that magnetism was related to electricity by bringing a wire carrying an electric current close to a magnetic compass which caused a deflection of the compass needle (always at right angle with respect to the conductor). It is now known that whenever current flows there will be an associated magnetic field in the surrounding space, or more generally that the movement of any charged particle will produce a magnetic field.



Magnetic Poles, Forces, and Fields

- Every magnet has two poles. This is where most of its magnetic strength is most powerful. These poles are called north and south or north-seeking and south-seeking poles. The poles are called this as when a magnet is hung or suspended the magnet lines up in a north - south direction.
- When the north pole of one magnet is placed near the north pole of another magnet, the poles are repelled. When the south poles of two magnets are placed near one another, they also are repelled from one another. When the north and south poles of two magnets are placed near one another, they are attracted to one another.
- The attraction repelling of two magnets towards one another depends on how close they are to each other and how strong the magnetic force is within the magnet. The further apart of the magnets are the less they are attracted or repelled to one another.
- When a magnet is broken into little pieces, a north pole will appear at one of the broken faces and a south pole. Each piece, regardless of how big or small, has its own north and south poles. They are around a magnet can also behave like a magnet. This is called a magnetic field. The larger the magnet and the closer the object to the magnet, the greater the force of the magnetic field.

Magnetic Materials

- The term magnetism is derived from Magnesia, the name of a region in Asia Minor where lodestone, a naturally magnetic iron ore, was found in ancient times. Iron is not the only material that is easily magnetized when placed in a magnetic field; others include nickel and cobalt.
- Magnets can also be formed that are called electromagnets. A simple electromagnet is formed with a battery and copper wire coiled around a metal rod such as a nail. There is evidence that there is an electrical basis for magnetism.

How do you demagnetize a magnet?

- **Heating, Hammering and/or Jarring**

Heating a magnet past its Curie point will destroy the long range ordering. In the case of heating, energy is provide to the magnetic dipoles causing them to free themselves from the initial order, thus destroying or reducing the ordering of the magnetic dipoles. This causes the magnetic poles to point in different direction in space. So on average along any direction you have very little magnetic poles alignment. Since magnetism arise from such alignment, in this case we have very little or no magnetization. Similarly when we hammer or drop the magnet many times on the floor, the vibration induced on the magnet causes the magnetic dipoles to randomize. Hammering and/or Jarring, such activity will destroy the long range ordering within the magnet.

Fundamentals Of Engineering Electromagnetics Lecture Notes

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calculate the change in thermal energy change in thermal energy j mass kg change in temperature c specific heat $j/kg \cdot c$ $q = m \cdot c \cdot \Delta T$
f t i c in the equation q stands for the change in thermal energy

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