

Unit (3) Electricity and Magnetism

Chapter (11): Static Electricity

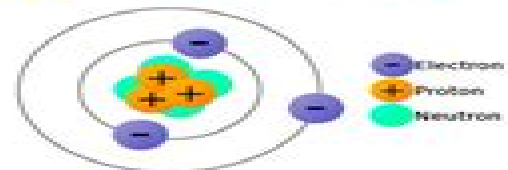
11.2: Electric Charge:



- Like Charges repel.
- Unlike Charges attract.
- The force decreases as distance between charges increases.



Everything is made of tiny particles called atoms. These have electric charge inside them. A simple model of the atom is shown on the right. There is a central nucleus made of Protons and Neutrons. And orbiting the nucleus there are much lighter particles called Electrons:



- Electrons have a negative charge (-).
- Protons have an equal positive charge (+).
- Neutrons carry no charge and are said to be "neutral".



- A positively charged object is an object that has lost electrons.
- A negatively charged object is an object that has gained extra electrons.

Note: only electrons (negative charges) are able to move because protons are held in place at the nucleus.

11.3: Conductors and Insulators:

Conductors are materials that let electrons pass through them. **Metals** are the best electrical conductors. This is because some of the electrons are loosely held to their atoms and are called "free electrons".

Insulators are materials that hardly conduct at all. Their electrons are held tightly to atoms and are not free to move - although they can be transferred by rubbing. (eg: wood, plastic and air)

11.4: Methods of Charging a Body:

11.4.1 Charging by rubbing (friction charging):



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