

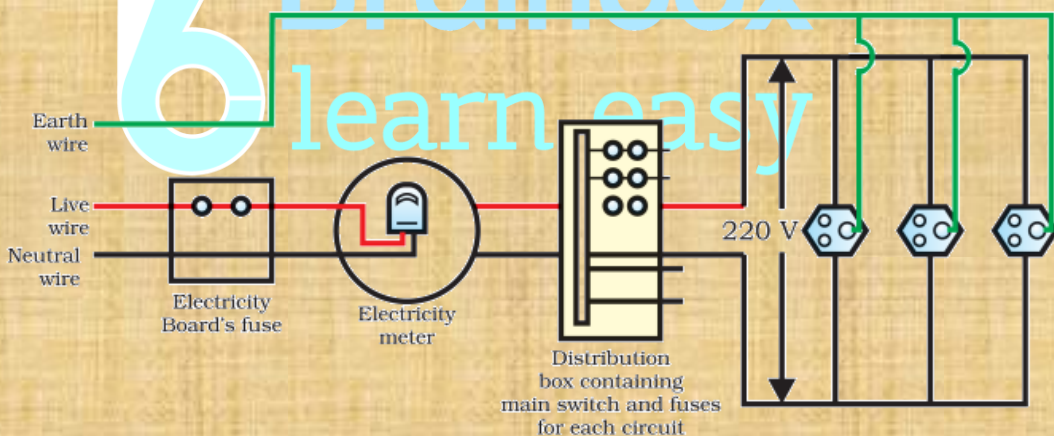
CHAPTER 13

Electromagnetism

Domestic Electric Circuits:

In this section, we study about how about how the electricity connections function at our home.

Generally, we receive power supply from main i.e. a live wire on the electric poles or underground cables. These are generally identified as live wire (+ve) designated by RED colour and neutral wire with BLACK colour. The potential difference between them is 220V.



In order to have same Potential difference for each appliance, they are connected parallel to each other.

In distribution box, we have main switch and fuses for each Circuit.

Electric fuse is a component, which prevents damage the appliances due to overloading.

Overloading occur due to short circuiting of live wire and neutral wire or due to sudden hike in voltage (or) many appliances are connected to a single socket.

In a socket, the three holes represent one for live wire, second for neutral wire and third for earthing.

Earthing wire is in GREEN colour.

