

Voltage and Electricity

❖ *Introduction*

→ So, the final concept you need to understand is *what is a circuit.*
Electricity is the flow of *electrons from one atom to another*
atom and the *path through which the electrons move is what*
known as a circuit.

So, on that note the introduction part is over and let us move to the next part.

❖ *Types of circuit*

→ *So, there are three types of circuits.*

- *Close circuit*
- *Open circuit*
- *Short circuit*

→ *Definitions:*

- *Close circuit: a circuit without interruption, providing a continuous path through which a current can flow. For example, when you switch a light in your house there are two wires which are powering the light when it is off one of the wire is disconnected and when you switch it on the wire which was disconnected will connected and because of that the movement of electrons will start again which generate electricity and the light will be powered again.*

- *Open circuit: an electrical circuit which is not complete. For example, in your home there is light in that light which powers the light when switch it off one of the wire got disconnected and the power supply is interrupted so the movement of electrons is stopped and because of that the light in off until you switch it back on.*
- *Short circuit: a bad electrical connection that causes a machine to stop working. In your tube light there are two wires one is positive and the other is negative and the negative wire should be connected to negative and the positive wire should be connected with positive if it is not done like that for example the negative wire is connected with the positive wire there will be a short circuit.*

So, on that note let us move to the next part.

❖ *Classification of solid state*

- *Conductor – Conducts heat and electricity. Here the electrons are loosely packed.*
- *Semi-Conductor – Partially conducts heat and electricity.*
- *Insulator – Won't conduct heat and electricity. Here the electrons are tightly packed.*

And this was the last video of this series so if you haven't watched this whole series yet and want to learn robotics you can go to the description of this video and you will find out the whole series.

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THEN BYE BYE!!*

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