

INTRODUCTION TO ELECTRICAL ENGINEERING

I. Define "Electricity"

1. Photo-Electric Effect – Emission of electrons when electromagnetic radiation, such as light, hits a material.
2. Thermo-electric Effect – Direct conversion of temperature differences to electric voltage and vice versa via a thermocouple.
 - Galvanometer - Instrument used to measure small amount of current and voltage.
 - Bimetallic material
 - Thermocouple
 - Overload Heater
 - Thermal Scanner
 - Infrared Scanner
3. Chemical Effect – Cell (Battery)
4. Piezoelectric Effect – Ability of certain materials to generate an electric charge in response to applied mechanical stress.
5. Triboelectric Effect – Materials become electrically charged after coming into contact with another diff. material, and are then separated. Either by friction and produced static electricity.
6. Electromagnetic Effect – All electrical equipment gains current.
 - Generator
 - Automobile
 - Alternator
 - Powerplant

2 Types of Electricity

1. Static – Attraction of Negative ions (-) to Positive ions (+).
2. Dynamic – Continuous Attraction.

II. Electrical Engineering

- Professional engineering that eventually deals with the study and application of
 - a. Electricity
 - b. Electronics
 - c. Electromagnetism
- The field became identifiable occupation in later 19th century after commercialization of *electric telegraph*, *telephone* and *electric power distribution*.
- In this field, broadcasting and recording made electronics part of daily use.

Electrical Engineering Lecture Notes

Guillaume Favre

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