

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

AW Rasmussen



Electrical Engineering Lecture Notes:

Reviewing **Electrical Engineering Lecture Notes**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing.

Within the pages of "**Electrical Engineering Lecture Notes**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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