Study Guide: Electrical Engineering

1. Introduction to Electrical Engineering

1.1. Definition

 Electrical Engineering: The branch of engineering that deals with the study and application of electricity, electronics, and electromagnetism.

1.2. History and Development

- · Early Pioneers:
 - Benjamin Franklin: Experiments with electricity.
 - Michael Faraday: Electromagnetic induction.
 - James Clerk Maxwell: Maxwell's equations.
- 20th Century Advancements:
 - Nikola Tesla: AC power systems.
 - Thomas Edison: DC power systems and electric light.
 - Claude Shannon: Information theory.

1.3. Major Areas of Study

- · Power Systems
- Electronics
- Signal Processing
- Control Systems
- Telecommunications
- Embedded Systems

2. Power Systems

2.1. Overview

 Power Systems: The generation, transmission, distribution, and utilization of electric power.

2.2. Generation

- Power Plants:
 - Thermal Power Plants: Use fossil fuels to generate electricity.
 - Hydroelectric Power Plants: Use water flow to generate electricity.

Study Guide For Electrical Repairing

Kathleen Armour

 ${\bf Study} \ {\bf Guide} \ {\bf For} \ {\bf Electrical} \ {\bf Repairing:}$

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