Reciprocal Motor-Generator Project

CMPE 330
Electromagnetic Waves and Transmissions
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1 Introduction

This document serves as the writing and documenting portion of the three-part Reciprocal Motor-Generator Project. The parts consisted of:

- Construction of the motor-generator set
- Description of the motor-generator set
- Evaluation of others' motor-generator sets

1.1 Definitions

By definition, an electric generator is an electrical machine that converts electrical current into mechanical energy. An electric generator is the inverse of an electric generator, as it converts mechanical energy into electrical current.

2 History

2.1 Electric Motor

2.2 Electric Generator

2.3 Contribution to Society

3 Physics

3.1 Maxwell's Equations

3.2 Faraday's Law of Induction

3.3 Relating to Coils

4 Construction

4.1 Brainstorming Phase

4.2 Multiple Trials

4.3 Final Model

References

[1] DBHJDS http://gradestack.com/Microprocessors-and/Architecture-of-8086-and/Address-Bus-Data-Bus-/19317-3912-38171-study-wtw

[2] Programmable Array Logic https://www.electrical4u.com/programmable-array-logic/