

Pre-Lab for

BUILDING AN ELECTRIC MOTOR

This assignment will familiarize you with the physics of the electric motor you will build in lab. It is due at the beginning of the electric motor lab period.

A schematic diagram of the motor is shown in Fig. 1 of the lab write-up and is reproduced here:

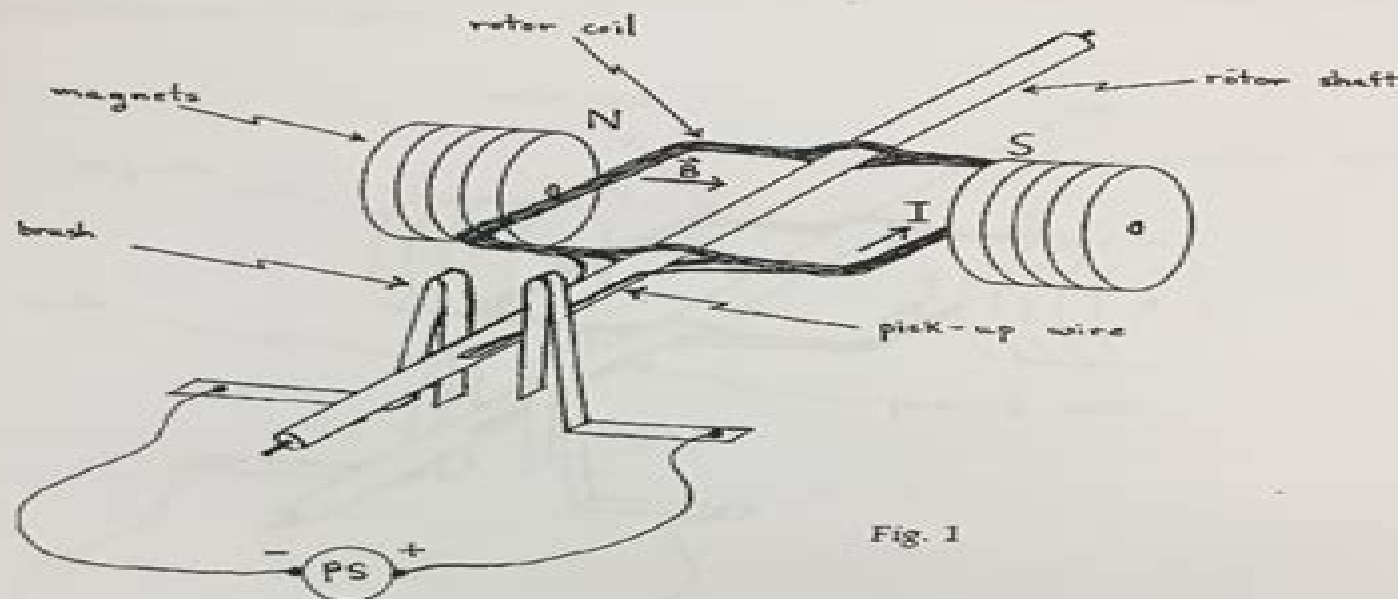


Fig. 1

Pre-lab task #1: (1 point) Assume the rotor is in the position shown and the current in the rotor loop is as shown. If we replace the loop with a bar magnet having the same magnetic field, in what direction would the north magnetic pole of the bar magnet point?

Pre-lab task #2: (2 points) Using the diagram as shown, determine the direction of the force on the wires.

Pre-lab task #3: (2 point) Show the direction of the torque on the rotor, and hence the direction of rotation.

Explain/show your work.

Simple Electric Motor Pre Lab Questions

RJ Shavelson



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