

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:

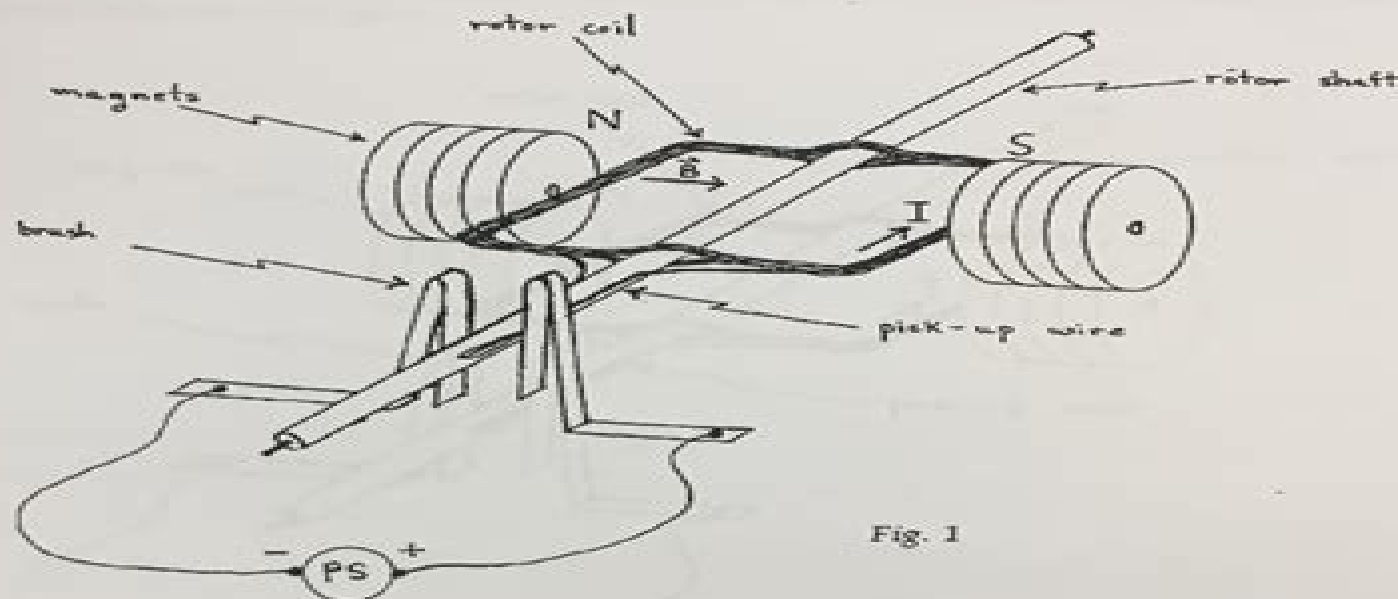


Fig. 1

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

Guillaume Favre



Simple Electric Motor Pre Lab Questions:

Exploring Physical Science in the Laboratory John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts **Youth's Companion** ,1928 **Horseless Age** ,1913 *Louisiana Planter and Sugar Manufacturer* ,1928 The Planter and Sugar Manufacturer ,1928 **Resources in education** ,1982-12

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