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Magnetic induction experiment report

Parts & Materials Electromagnetics from previous experiments Permanent Magnet See previous testing for electromagnetic manufacturing instructions. Reciprocal References Lesson in Electrical Circuits, Volume 1, Chapter 14: Magnetism and Electromagnetic Learning Objectives The relationship between magnetic field power and induced voltage Schematic Image Instructions Chart Electromagnetic induction is a complementary phenomenon of electromagnetics. Instead of generating a magnetic field from electricity, we generate electricity from a magnetic field. There is an important difference, though: while electromagnetics produce a constant magnetic field from a constant electrical current, electromagnetic induction requires movement between magnet and coil to generate voltage. Connect the multimeter to the coil wire, adjusting it to the most sensitive DC voltage range available. The magnet moves slowly to and from an electromagnetic end, pointing to the polarity and magnitude of the induced voltage. Experiment with magnet motion, and discover for yourself what factor(s) determine the amount of voltage induced. Try the other end of the coil and compare the results. Try and compare the other end of the permanent magnet. If you use an analog multimeter, be sure to use long jumper wires and find the meter farther away from the coil wire, as the magnetic field of the permanent magnet may affect the performance of the meter and produce false readings. Digital meters of magnetic fields are unaffected. Related work sheets: Medium electromagnetic and electromagnetic induction sheet You are reading a free preview pages 4 to 6 not shown in this preview.

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