

MAGNETIC FIELDS

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1-Introduction

INDUCED CURRENT: In this theory we found out that if we move a shaft on a conductive slope which is affected by magnetic field, the current will be induced in the slope's body. We can use this theory for U shape things such as roller coasters and U games.



Figure 1- Roller coasters

2-Theory and Experiment

MAGNETIC TURBINE: We examined that by using the magnetic field which is made by two current carrying wires, we can rotate a vane which is affected by the force which is made of magnetic field.

When we bring the temperature of a ferromagnetism material to the Curie temperature, it will lose its permanent magnetism and its atoms convert to magnetic polarization. Magnetic polarizations will be aligned to a common direction because of the magnetic field which is made by the magnet, and dipoles will be affected by the force which is entered to them from the magnet, and at last they will move and the roundish surface will move, we can use magnifier instead of fuels as heater and also we can make electricity from it by using coil around the roundish Nickel surface.



Figure 2- CURIE POINT ENGINE