



**ELECTRICIAN'S BOOK-THE EXPERIMENT
OF ELECTRICITY PRODUCTION (20
MODULES SERIES and VIDEO
DEMO)Magnetic field intensity (B)**

CORNEL BARBU

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The magnetic field is in fact a field map. The magnetic field is characterized by DIRECTION and STRENGTH also. Directions of magnetic lines are shown by arrows and the strength of the magnetic field by "B". B is a vector .When an electric charge is entering with velocity "V" into magnetic field will experience a force due to the strength of the magnetic field. "V" is a vector also. This force is the LORENZ force.)

You have the option to achieve all modules from 1 to 20 or to choose the ones important for you in order to understand how the electricity is generated. I will encourage you to achieve the complete package and read them step by step as indicated below. Highlighted item is the one you just achieved

Lorenz Force

Faraday's Law

Permanent magnet and the electromotive force(EMF)

Moving a coil into a magnetic field

The Magnetic Flux

Magnetic Flux & Surfaces

Magnetic Flux and Voltage

Magnetic flux variation

How the Electromotive Force will appear

Magnetic field intensity (B)

Wire polarization with electric charges

EMF formula: $U=V*B*L*\sin \theta$

Rotating a coil in magnetic field

The experiment of electricity production

Single Phase Generator

Voltage and Current Diagram

Why sin wave?

Three Phase Generator

Voltage and Current Diagram

Why sin wave?

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