



**ELECTRICIAN'S BOOK-THE EXPERIMENT  
OF ELECTRICITY PRODUCTION (20  
MODULES SERIES AND VIDEO DEMO)Moving  
a coil into a magnetic field**

*CORNEL BARBU*

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According to Faraday's Law when magnetic flux changes in the proximity of a coil, is generated a voltage at the terminals of the coil. The magnetic flux changes when the magnet bar moves through the coil. The voltage is indicated by the volt-meter. In fact this is the induced electro- motive- force (EMF).This is a GENERATOR.....When a load(resistance) is connected to the wire, we have an induced current flows through the resistor. In this case a generator is producing electricity and the load is consuming this electricity.

<http://scratch.mit.edu/projects/13086199/#fullscreen>

During my working life-time as electrical contractor and engineer I found that most of the electricians I meet will find hard to explain how the electricity is generated. Well established companies do not pay too much attention to the electricians training.IBEW is doing something but not enough.The point is : you need to be a self starter in order to achieve skills to protect yourself and others and be financially well.There is no blame in this is just my intention help them a bit. I know how hard is to support a family, to bring food and things to our loves one since working hard.It remains no time to review and to make theoretical practice in order to understand everything we do.....unless we care about us !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 sine wave?

Three Phase Generator

Voltage and Current Diagram

Why sine wave?

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**From reader reviews:**

**Arthur McLaurin:**

Reading a book tends to be new life style in this era globalization. With reading you can get a lot of information that can give you benefit in your life. Together with book everyone in this world could share their idea. Books can also inspire a lot of people. Lots of author can inspire their own reader with their story or maybe their experience. Not only the storyplot that share in the textbooks. But also they write about the information about something that you need case in point. How to get the good score toefl, or how to teach your kids, there are many kinds of book that exist now. The authors on this planet always try to improve their expertise in writing, they also doing some investigation before they write to the book. One of them is this ELECTRICIAN'S BOOK-THE EXPERIMENT OF ELECTRICITY PRODUCTION (20 MODULES SERIES AND VIDEO DEMO)Moving a coil into a magnetic field.

**Howard Foster:**

ELECTRICIAN'S BOOK-THE EXPERIMENT OF ELECTRICITY PRODUCTION (20 MODULES SERIES AND VIDEO DEMO)Moving a coil into a magnetic field can be one of your starter books that are good idea. We all recommend that straight away because this reserve has good vocabulary that will increase your knowledge in words, easy to understand, bit entertaining but nonetheless delivering the information. The copy writer giving his/her effort to put every word into enjoyment arrangement in writing ELECTRICIAN'S BOOK-THE EXPERIMENT OF ELECTRICITY PRODUCTION (20 MODULES SERIES AND VIDEO DEMO)Moving a coil into a magnetic field yet doesn't forget the main stage, giving the reader the hottest and also based confirm resource facts that maybe you can be considered one of it. This great information could drawn you into fresh stage of crucial contemplating.

**Katrice Fredericksen:**

This ELECTRICIAN'S BOOK-THE EXPERIMENT OF ELECTRICITY PRODUCTION (20 MODULES SERIES AND VIDEO DEMO)Moving a coil into a magnetic field is brand-new way for you who has intense curiosity to look for some information mainly because it relief your hunger associated with. Getting deeper you into it getting knowledge more you know or perhaps you who still having little digest in reading this ELECTRICIAN'S BOOK-THE EXPERIMENT OF ELECTRICITY PRODUCTION (20 MODULES SERIES AND VIDEO DEMO)Moving a coil into a magnetic field can be the light food to suit your needs because the information inside this particular book is easy to get through anyone. These books develop itself in the form and that is reachable by anyone, that's why I mean in the e-book contact form. People who think that in book form make them feel drowsy even dizzy this reserve is the answer. So there is no in reading a guide especially this one. You can find what you are looking for. It should be here for an individual. So , don't miss this! Just read this e-book sort for your better life and also knowledge.

**Susan Arnold:**

With this era which is the greater person or who has ability to do something more are more important than other. Do you want to become one of it? It is just simple way to have that. What you need to do is just spending your time almost no but quite enough to enjoy a look at some books. One of many books in the top listing in your reading list is definitely ELECTRICIAN'S BOOK-THE EXPERIMENT OF ELECTRICITY PRODUCTION (20 MODULES SERIES AND VIDEO DEMO)Moving a coil into a magnetic field. This book that is qualified as The Hungry Inclines can get you closer in becoming precious person. By looking upwards and review this reserve you can get many advantages.

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