

**SUBJECT:** Electromagnetic Induction-A2-Level Physics

**CONTENT:** Electromagnetic Induction; Magnetic Flux; Magnetic Flux Linkage; Laws of Electromagnetic Induction; Induced EMF in a Straight Conductor; Induced EMF in a Rectangular Coil; Induced EMF in a Rotating Coil; Faraday's Disc (The Homopolar Generator); Eddy Currents; Mutual Induction; The Transformer; Transformer Efficiency

**DOCUMENT TYPE:** Study Guide

**SCHOOL:** ESDC Tuition Centre

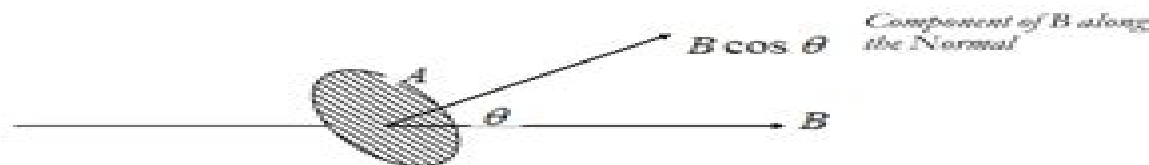
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## 1 Electromagnetic Induction

This is the induction of electromotive force (EMF) in a circuitry by varying the magnetic flux linking the circuit.

### 1.1 Magnetic Flux ( $\phi$ )

The **Magnetic Flux** is a measure of the total number of magnetic field lines passing perpendicularly through an area  $A$  of a section of a magnetic field.



*Figure 1: Magnetic Flux through a section of the magnetic field*

The Magnetic Flux ( $\phi$ ) is defined by the relation:

$$\phi = AB \cos \theta \quad \dots\dots\dots (E1)$$

# Study Guide For Electromagnetic Induction

**Raffaela Di Napoli**



## **Study Guide For Electromagnetic Induction:**

The book delves into Study Guide For Electromagnetic Induction. Study Guide For Electromagnetic Induction is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Study Guide For Electromagnetic Induction, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Study Guide For Electromagnetic Induction
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