

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

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 (ϕ)

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.

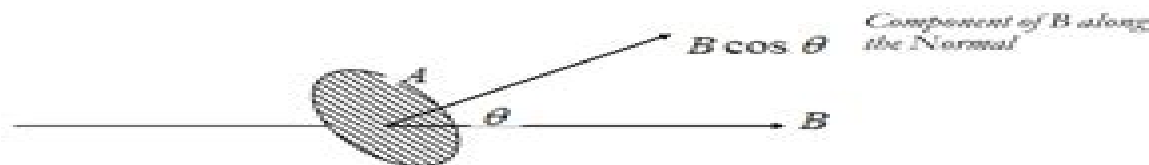


Figure 1: Magnetic Flux through a section of the magnetic field

The Magnetic Flux (ϕ) is defined by the relation:

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

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A Study Guide for Physics II Gerald E. Buck, 1966 **Revise AS & A2 Physics Study Guide** Graham Booth, 2008

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