

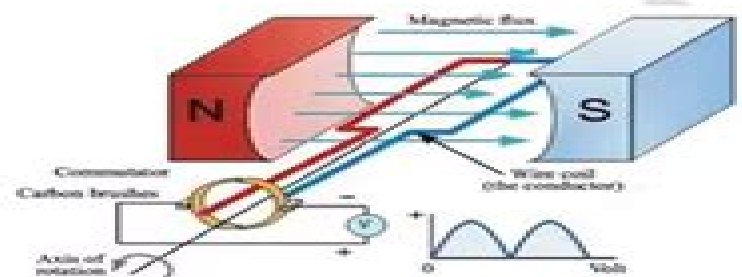
09. Explain how an A.C. generator works in its most simple form.

Ans: **A.C. generator works:**

An AC generator is an electric generator that converts mechanical energy into electrical energy in the form of alternative emf or alternating current. An AC generator works on the principle of "electromagnetic induction".

When the magnet is moved "away" from the coil, the galvanometer needle deflects in the opposite direction, indicating a change in polarity. By moving the magnet back and, forth towards the coil, the needle of the galvanometer will deflect left or right, positive or negative, relative to the magnet's motion.

If you keep the magnet stationary and move only the coil toward or away from the magnet, the needle on the galvanometer will also move in either direction. A voltage is induced in a coil when the coil is moved through a magnetic field, and the magnitude of this voltage is proportional to the speed at which the coil is moved. For Faraday's law to be valid, either the coil or the magnetic field (or both) must be in "relative motion" with one another for the induced emf or voltage to be increased with increasing field speed.



10. Explain the units of mutual induction and provide an example.

Ans: **Mutual Inductance:**

When the electric current in the primary coil changes, the magnetic field changes as well, linking the secondary coil to the primary coil. In the secondary coil, this shifting flux causes an e.m.f. Mutual Induction describes this process. The secondary coil's e.m.f. is proportional to the primary coil's rate of change of current. Thus:

$$\epsilon_s \propto \frac{\Delta I_p}{\Delta t} \quad \epsilon_s = -M \frac{\Delta I_p}{\Delta t}$$

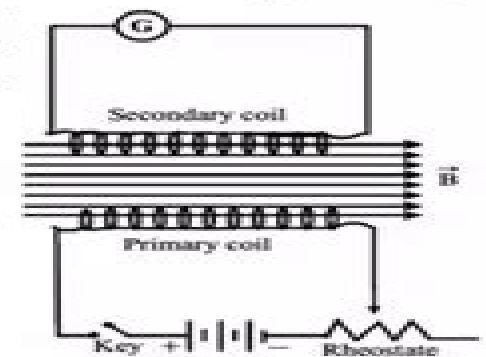
where M is a constant, called mutual inductance of the two coils.

Hence:

$$M_s = \frac{\epsilon_s}{\frac{\Delta I_p}{\Delta t}}$$

S.I Unit of Mutual Inductance:

The S.I unit of mutual inductance is "Henry" while is equal to $\frac{\text{volt / sec}}{\text{amp}}$



Solved Exercise Electromagnetism

Huangqi Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Solved Exercise Electromagnetism:

The Enigmatic Realm of **Solved Exercise Electromagnetism**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Solved Exercise Electromagnetism** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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