

## CHAPTER 25

## STUDY GUIDE

## ELECTROMAGNETIC INDUCTION

## Vocabulary Review

For each definition below, write the correct term.

eddy current

electric generator

electromagnetic induction

induced electromotive force

Lenz's law

mutual inductance

self-inductance

step-down transformer

step-up transformer

transformer

1. \_\_\_\_\_ the statement that an induced current is always produced in a direction such that the resulting magnetic field opposes the change in the magnetic field that is causing the induced current
2. \_\_\_\_\_ the potential difference that is produced by electromotive induction
3. \_\_\_\_\_ a transformer with a lower potential difference across the secondary circuit than across the primary circuit
4. \_\_\_\_\_ the effect that occurs in a transformer when a varying magnetic field produced in the primary coil is carried through the iron core to the secondary coil, where the varying field induces a varying *EMF*
5. \_\_\_\_\_ a device that increases or decreases the potential difference with little loss of energy
6. \_\_\_\_\_ the generation of current through a circuit due to the relative motion of a magnetic field
7. \_\_\_\_\_ a transformer with higher potential difference across the secondary circuit than across the primary circuit
8. \_\_\_\_\_ generated by a piece of metal moving through a magnetic field
9. \_\_\_\_\_ the property of a wire to create an induced *EMF* that opposes the change in a potential difference across the wire
10. \_\_\_\_\_ converts mechanical energy to electrical energy

# Electromagnetic Induction Chapter 25 Study Guide Answers

**L Towne**



## **Electromagnetic Induction Chapter 25 Study Guide Answers:**

## **Electromagnetic Induction Chapter 25 Study Guide Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Electromagnetic Induction Chapter 25 Study Guide Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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