

CHAPTER 24

STUDY GUIDE

ELECTROMAGNETIC INDUCTION

Vocabulary Review

Write each definition below, using the word in parentheses.

induced 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 electromagnetic 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 a 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 potential difference across the wire
10. _____ converts mechanical energy to electrical energy

Ch 25 Physics Study Guide

Stanley A. Williams



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