

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

Study Guide For Electromagnetic Induction

H Kauffman



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