

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 |

5 Study Guide Electromagnetic Induction Vocabulary Review

Christian Drosten



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