

## 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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