

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 Study Guide

SB Merriam



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web identify the missing particle in the following nuclear reaction $^1_0\text{n} + ^{235}_{92}\text{U} \rightarrow ^2_{10}\text{n} + ^{137}_{52}\text{Te} + ^4_2\text{He} + ^{97}_{38}\text{Sr} + ^{96}_{40}\text{Zr} + ^{97}_{40}\text{Zr}$

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web answer 4 correct in the reactants and products must be the same part b what is the value of in the following nuclear reaction $^{65}_{29}\text{Cu} \rightarrow ^{65}_{29}\text{Cu} + ^0_{-1}\text{e}$ express your answer as an integer hint 1 how to approach the problem use rule 2 the total of the subscripts atomic numbers mathematically this can be written as answer

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