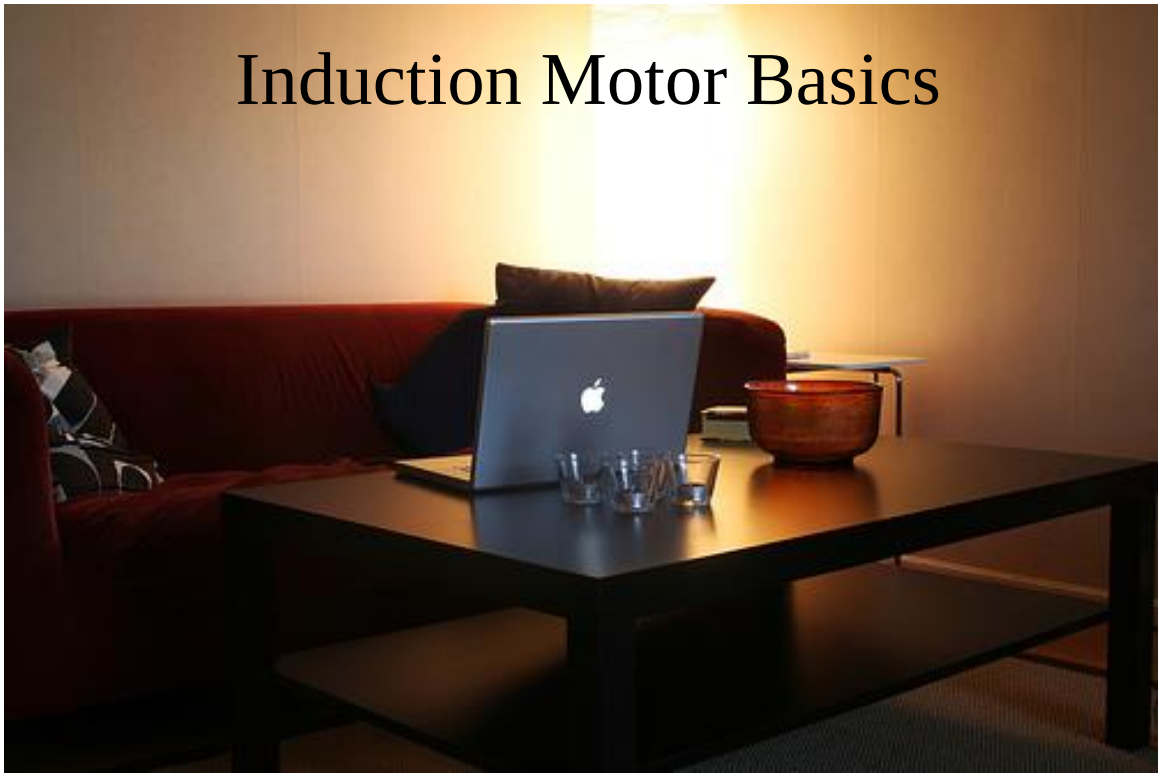


Induction Motor Basics

By

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2 PDH HOURS

For the Course Video please go to:
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Induction Motor Basics - Quiz

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Chapter 2 Introduction

1. What did James Maxwell used to prove the link between Electricity and Magnetism?

a) Science
b) Mathematics
c) Physics
d) Calculus

2. Fans, compressors, and pumps, must rotate 180 degrees in order to operate correctly:

a) True
b) False

Chapter 3 Motor Theory

3. Energy that could do work, is referred to as:

a) Mechanical Energy
b) Heat Energy
c) Nuclear Energy
d) Potential Energy

4. One Coulomb equals one amp.

a) True
b) False

5. It's possible to have current without voltage.

a) True
b) False

6. Which of the given statements is true?

a) When there is no current, there is no resultant magnetic field around a solenoid.
b) There is always a magnetic field around a solenoid.
c) Current supply has nothing to do with the magnetic field around a solenoid.

7. Faraday's first law relates to:

a) Electromagnetic conduction.
b) Electromagnetic resistance.
c) Electromagnetic induction.

8. A current will be induced in a conductor if the conductor is placed within a varying magnetic field (assuming the circuit is closed).

a) True
b) False

9. One Cycle per second is equal to:

a) 1 Hertz
b) 10 Hertz
c) 100 Hertz
d) None of the above

Chapter 4 Motor Parts

10. A _____ is a component that constrains relative motion to only the desired motion, and reduces friction between moving parts.

a) Bearing
b) C-clip
c) Stator

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11. An induction motor rotor is usually long and cylindrical in shape.

a) True
b) False

12. _____ is caused by vibration acting upon the bearing while in a non-rotating state; it may occur to new equipment which has been stored for a long period of time.

a) Bearing dislocation
b) False Brinelling
c) Fluting in Bearing