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Motor A motor is an

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extended version of a transformer. Here we can introduce the analogy between a transformer and a motor that is a motor is like a transformer with a moving secondary. The primary that is not moving is called stator and the secondary that is moving is called rotor. The type of motor that is used worldwide with a

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greater percentage

Of Electric Fundamentals of Motors And Transformers

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Drives: Fundamentals,
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primarily for non-
specialist users or
students of electric
motors and drives, but
many researchers and

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Permanent Magnet

Basics. •Any magnet has a North and a South Pole. •“Opposite” poles of a magnet attract each other. •“Like” poles of

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a magnet repel each other. • Motors use this principle of attraction and repulsion to rotate.

Lines of Flux. Induced Magnetic Fields. • A magnetic field (B) is produced any time an electric current is passed through a wire.

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Fundamentals of
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05:18 They provide the
necessary mechanical-to-
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mechanical conversion.

In the United States,
more than 50% of the
electric power is
consumed by electric
motors.

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Resources.

Fundamentals of Motors
...

Fundamentals of Motors
Page 19/36

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- Electrical and Industrial

2 Different kinds of
motors There are many
kinds of electrical
motors which can be
divided into two main
categories: DC motors,
where DC stands for
direct current and AC
motors where AC stands
for alternating current.
The AC motors can be
divided in two sub

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categories, synchronous motors and asynchronous motors.

That a motor is

Motor Fundamentals -
Theseus

The electric motor operation is based on the following points: •
At least one of the two magnetic field is generated by a solenoid carrying a current. •

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Phase relation between the rotor and stator magnetic field (i.e. the load angle) must be always greater than 0° in order to keep the motor in motion (negative angles reverse the rotation).

Fundamentals of motor control -

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Course Motor-1: An

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Introduction to Electrical Motors Basics

Course Description:

This course is intended to prepare the target persons with the ability to understand and recognize different types, components, theory of operation and applications of All Electrical Motors.

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1- “Fundamentals of
Electric Drives”, Gopal
K Dubey, Narosa 2-
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...
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Motors And
Drives
Transformers

Basic Principles of
Operation of Electric
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linkage between rotor
and stator creates torque
and therefore relative
motion between rotor
and stator. $F=q(v \times B)$ $F=$
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of Operation of Electric
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Synchronous Speed

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fundamental concepts

underlying electric
machines, power

electronics, and electric
drives with

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