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Motor A motor is an 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

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with a greater percentage
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intended primarily for non-specialist users
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but many researchers and specialist industrialists have also acknowledged its value in providing a clear understanding of the fundamentals. It bridges the gap between specialist textbooks (too analytical for the average user) and handbooks (full of detail but with little insight) providing an understanding of

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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 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

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passed through a wire.

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PM, Induction, Reluctance

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Law Faraday's Law Gauss's Law

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Maxwell's equations; Magnetic Circuits .

Basic concepts of magnetic circuits,
electrical equivalence Application of
governing laws Magnetic force/torque
production Non-Linear magnetic material
behavior

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Motors for ... And Transformers

Fundamentals of Electric Motor Drives

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provide the necessary mechanical-to-

electrical or electrical-to-mechanical

conversion. In the United States, more

than 50% of the electric power is

consumed by electric motors.

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2 Different kinds of motors There are
many kinds of electrical motors which can

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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 categories, synchronous motors and asynchronous motors. That a motor is

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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. □ 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

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Motor in motion (negative angles reverse the rotation).

Fundamentals of motor control -

STMicroelectronics

Course Motor-1: An Introduction to

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Description: This course is intended to

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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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Austin Hughes Senior Fellow, School of

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Electric Motors And Drives

Basic Principles of Operation of Electric Motors Changes in flux linkage between

rotor and stator creates torque and

therefore relative motion between rotor

and stator. $F=q(v \times B)$ $F= l(i \times B)$ Basic

Principles of Operation of Electric Motors

(cont'd) Electrical Radians and

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Synchronous Speed Electrical Radians and
Synchronous Speed (cont'd) $P \omega_e = \omega_m =$
 $p \omega_m$ electrical rads. 2

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Books. A modern electric drive system consists of a motor, an electric converter, and a controller that are integrated to perform a mechanical maneuver for a given load. Because the torque/volume ratio of modern electric drive systems is continually increasing, hydraulic drives are no longer the only option to use for

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