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studied

electromagnetism will
have covered the
basic principles of
electrical motors,
generators, and
transformers. There is
a huge gap, however,
between simple
moving loops in
magnetic fields and

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...

The Power Equation;
Multiplying the voltage
by the armature
current to get the
power gives the

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following relationship:

$$P = EI = VI - I^2 R. \text{ It}$$

shows that the mechanical power delivered by the motor is equal to the back EMF times the armature current OR the electrical power applied to the motor less the $I^2 R$ losses in the windings.

(Disregarding frictional losses).

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Electric Drives -

Electrical Machine

Fundamentals ...

Electrical drives play an important role as electromechanical energy converters a wide range of applications, for example machine tools in manufacturing industries, photocopies, CD

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player, electric
windows in the car,
prosthetic hands and
other medical
devices; some are
obvious other not so,
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SOLUTIONS...

In the third part, electrical drives are discussed, combining the traditional (rotating field and DC commutator) electrical machines treated in the first part and the power electronics of part two. Field orientation of induction and synchronous

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Machines are

discussed in detail, as well as direct torque control.

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Electrical machines and drives Electrical systems transfer electricity which is mostly produced and

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consumed by rotating electrical machines.

Further, the use of electric and hybrid electric drivelines in both passenger and heavy vehicles is now commonplace and with a continuously growing market share.

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the systems which
control the motion of
the electrical
machines, are known

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as electrical drives. A typical drive system is assembled with a electric motor (may be several) and a sophisticated control system that controls the rotation of the motor shaft. Now days, this control can be done easily with the help of software.

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University has its
purposes to educate
engineer researchers
and to conduct
research in all
aspects of electrical
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members strive to

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produce correct and useful results that address the needs of industry, government, and finally of the world, for efficient, highly performing systems.

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