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Kinetic Energy - The

Searl Effect Volts,

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2-Basic principles of
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energy conversion.

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power systems analysis courses. There were no books to fit this trend, and using two books was uneconomical and confusing. Today, almost 15 % of the Universities in the US and the Canada require a combined course.

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electric motor and
gearbox providing
rotary actuation is one of
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Resistive Load like
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is 1 (one).

The real truth behind

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household power savers

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the currents and the
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Fig.11 Diagram of
electromechanical
energy conversion with
inclusion of power losses

2.1 Field energy In
both: motor and
generator the field
energy is converted
either into electric or
mechanical energy.

EE – 3410 Electric
Power

Electromechanical

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Drives The electric
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electromechanical
energy conversion
device that processes
and delivers power to
the load. The same
electric machine can
operate as a motor to
convert electrical power

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to mechanical power or
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to convert mechanical
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power.

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This book is intended to be a textbook for undergraduate students studying electrical and electronic engineering in universities and colleges. Therefore, the level and amount of the knowledge to be transferred to the reader is kept to as much as

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what can be taught in one academic semester of a university or a college course. Although the subject is rather classical and somehow well established in some respects, it is vast and can be difficult to grasp if unnecessary details are not avoided. This book is aimed to give the reader just what is necessary - with plenty

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of short and easily understandable examples and drawings, figures, and tables. A course on electromechanical energy conversion is a necessity in all universities and colleges entitled to grant a license for electrical engineering. This book is aimed at meeting the requirements of this

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together with today ' s
much-used motors.
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Energy Conversion and
Transport is thoroughly
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that discuss the
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and practicing
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induction machines,
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synchronous machines
and modern electrical
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