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chapter discussed the principles of developing electromagnetic forces that act on moving parts of electromechanical converters and provide the means for the process of electromechanical conversion

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electromechanical energy conversion theory is the cornerstone for the analysis of electromechanical motion devices the theory allows us to express the electromagnetic force or torque in terms of the device variables such as the currents and the displacement of the mechanical system

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in this chapter our aim is to explore the basic principles of

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conversion is a reversible process except for the losses in the system the term reversible implies that the energy can be transferred back and forth between the electrical and the mechanical systems

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~~electromechanical energy conversion electrical machines contain~~  
stationary and moving parts coupled by an electrical or magnetic field the field acts on the machine parts and plays key role in the process of electromechanical conversion for this reason it is often referred to as the coupling field

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2022 covering linear and non linear magnetic circuits transformers electromechanical energy and forces and excited electromechanical systems along with detailed examination of various machines involved the book contains numerous hands on challenges that encourage a creative and determined approach to problem solving making it an ideal tex

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the electromechanical energy conversion devices can be classified into two types gross motion devices like motors and generators incremental motion devices such as electromagnetic relays measuring instruments loudspeakers etc the device which converts electrical energy into mechanical energy is known as electric motor

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