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engineering: power, control and power electronics. An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can take the form of an electric generator, electric motor, or transformer.

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The Electric Machinery Fundamentals is a subject which deals with various kinds of machines such as motors, generators, transformer, etc.

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5.8 BASIC FEATURES OF ELECTRIC MACHINES 5.9  
ELECTRIC MACHINES APPLICATIONS 5.9.1.1

Asynchronous Machines - Petroleum and chemical pumps.. -  
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Fundamentals. This section reviews some fundamental concepts that are central to the operation of electrical machines. The field of electrical machines requires some knowledge of theory from a range of topics. These include basic circuits, rotational mechanics, electromagnetism, and three phase systems. We often think of electric motors or generators.

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These tools make very complex calculations simple to perform, and allow students to explore the behavior of problems interactively. The new edition of Electric Machinery Fundamentals makes selected use of MATLAB to enhance a student's learning experience where appropriate. For example, students use MATLAB in Chapter 7 to calculate the torque-speed characteristics of induction motors, and to explore the properties of double-cage induction motors.

~~Chapman: Electric Machinery Fundamentals~~

Electric machine systems. For optimized or practical operation of electric machines, today's electric machine systems are complemented with electronic control. References. Chapman, Stephen J. 2005. Electrical Machinery Fundamentals. 4th Ed. New York: McGraw Hill.

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