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electric machinery, electric drives, and electric power industries. Like previous editions, reference-frame theory is at the core of this book. However, new material has been introduced that sets the stage for machine design. In particular, ANALYSIS OF ELECTRIC MACHINERY AND DRIVE SYSTEMS The Electrical Machines and Drives Laboratory specializes on topics related to electrical drives. Specifically we are working on: Design of electrical machines and their controls for high performance applications, related to traction, actuators and commercial service.

Electrical machines are electromechanical energy converters where electric motors convert electromagnetic energy to mechanical energy while electric generators convert mechanical power to electricity. They play a crucial role in our everyday life whether at home, in the car, in the train, in the bus, in the office, or at the factory.

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expanded and modified to help meet the needs of the electric machinery, electric drives, and electric power industries. Like previous editions, reference-frame theory is at the core of this book. However, new material has been introduced that sets the stage for machine design. In particular,

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