

## FUNDAMENTALS OF ELECTRICAL DRIVE CONTROLS

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**Keywords:** Electrical drives, control, modeling, DC motor, permanent-magnet synchronous motor, cascade control, chopper, sensors, speed control, position control, pointing, tracking, friction, compliance, backlash, state control, nonlinear compensation.

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### Summary

Controlled electrical drives can be regarded as the most flexible and efficient source of controlled mechanical power. Understanding and developing the controlled electrical

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