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Written for undergraduate and graduate students, High Performance Control of AC Drives with MATLAB/Simulink Models illustrates advanced control techniques and topologies in practice and recently deployed. Examples include vector control, direct torque control, nonlinear control, predictive control, multiphase drives, and multilevel inverters.

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Key features include: systematic coverage of the advanced concepts of AC motor drives with and without output filter; discussion on the modelling, analysis and control of three- and multi-phase AC machine drives, including the recently developed multi-phase-phase drive system and double fed induction machine; description of model predictive control applied to power converters and AC drives ...

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Simulate an AC Motor Drive. To use the AC drive models of the Electric Drives library, you first specify the types of motors, converters, and controllers used in the six AC drive models of the library designated AC1 to AC6. The AC1, AC2, AC3, and AC4 models are based on the three-phase induction motor. This motor has a three-phase winding at the stator and a wound rotor or a squirrel-cage rotor.

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