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fundamental concepts of modern electric drive control and its operation under dynamic conditions. Author Ned Mohan, a decades-long leader in Electrical Energy Systems (EES) education and research, reveals how the investment of proper controls, advanced MATLAB and Simulink simulations, and careful forethought in the design of energy

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Key to ensure stable operation of a drive

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in the aforementioned applications are torque control algorithms. In Advanced Electrical Drives, a unique approach is followed to derive model based torque controllers for all types of Lorentz force machines, i.e. DC, synchronous and induction machines. The rotating transformer model forms the basis for this generalized modeling approach that

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Although it is a powerful reference in its own right, when used in conjunction with the companion texts Fundamentals of Electrical Drives and Applied Control of

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Electrical Drives, this book provides a uniquely comprehensive reference set that takes readers all the way from understanding the basics of how electrical drives work, to deep familiarity with advanced features and models, to a mastery of applying the concepts to actual hardware in practice.

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Today, electrical drives are used as propulsion systems in high-speed trains, elevators, escalators, electric ships, electric forklift trucks and electric vehicles. Advanced control algorithms (mostly digitally implemented) allow torque control over a high-bandwidth.

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Hence, precise motion control can be achieved.

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Advanced Electrical Drives Analysis, Modeling, Control [Book News] March 2014; ... drives and motion control, robotics as well as automation of

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Mohan: Advanced Electric Drives: Analysis, Control, and ...

Electrical drives represent a dominant source of mechanical power in various applications in production, material handling, and process industries.

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Substantially improves their performance in terms of achieving precise and fast motion control (servo-control) with a high efficiency.

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Advanced Electric Drives is an invaluable resource to facilitate an understanding of the analysis, control, and modelling of electric machines. Gives readers a "physical" picture of electric machines and drives without resorting to mathematical transformations for easy visualization

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Advanced Electric Drives: Analysis, Control, and Modeling ...

Advanced Electric Drives: Analysis, Control and Modeling using Simulink. This textbook follows the treatment of electric machines and drives in my earlier textbook "Electric Drives - An Integrative Approach." I have attempted

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to use the same notation to provide consistency.

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For rotating it in the counterclockwise direction, the excitation sequence is a-b-c-d. Advanced Electric Drives: Analysis, Control, and Modeling Using

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The modeling, simulation and digital controller will be developed in this

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course to analysis and design advanced electric drive systems. Important concepts are illustrated with laboratory experiments. Prerequisites ELE 637, ELE 654 and ELE 639 Antirequisites None Corerequisites None Compulsory Text(s): 1.

Course Outline (F2019) ELE747:

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