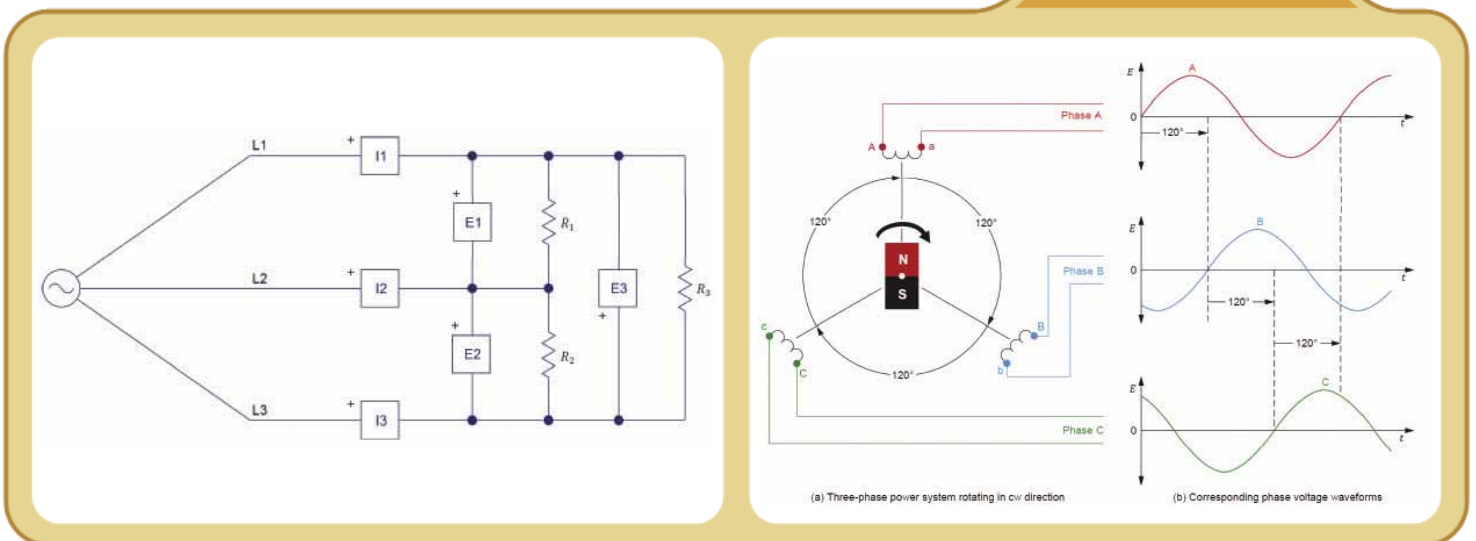


Three-Phase AC Power Circuits

Course 86360

The Three-Phase AC Power Circuit course familiarizes students with three-phase power systems. The course first introduces the student to the fundamentals of three-phase power systems, such as the wye (star) and delta configurations, phase and line voltages, phase and line currents, phase balance, etc. Students then examine how to measure power in three-phase circuits using the two-wattmeter method, as well as how to determine the power factor. Finally, students explore the phase sequence and learn to determine the phase sequence of a three-phase power system.



Topic Coverage:

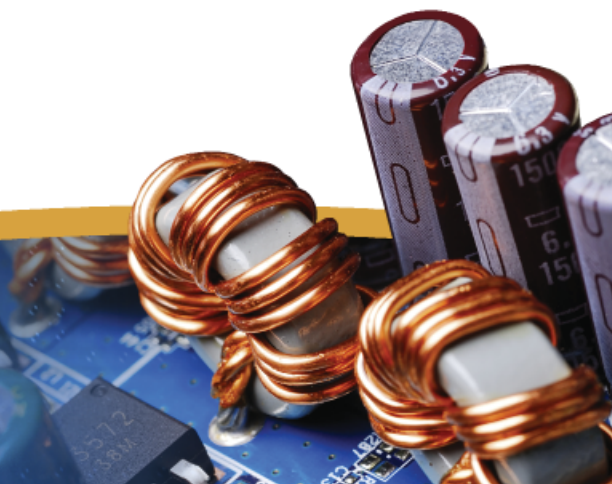
- » Analyze three-phase circuits and learn to solve them.
- » Discover the difference between line and phase voltages and currents.
- » Calculate the active power dissipated in each phase of a three-phase circuit and the total active power dissipated in a circuit.
- » Learn about phase sequence and wye and delta circuit configuration.
- » Calculate the active, reactive, and apparent power in balanced, wye- or delta-connected, three-phase circuits.
- » Analyze the phase sequence of a three-phase circuit using an oscilloscope.

Features and Benefits:

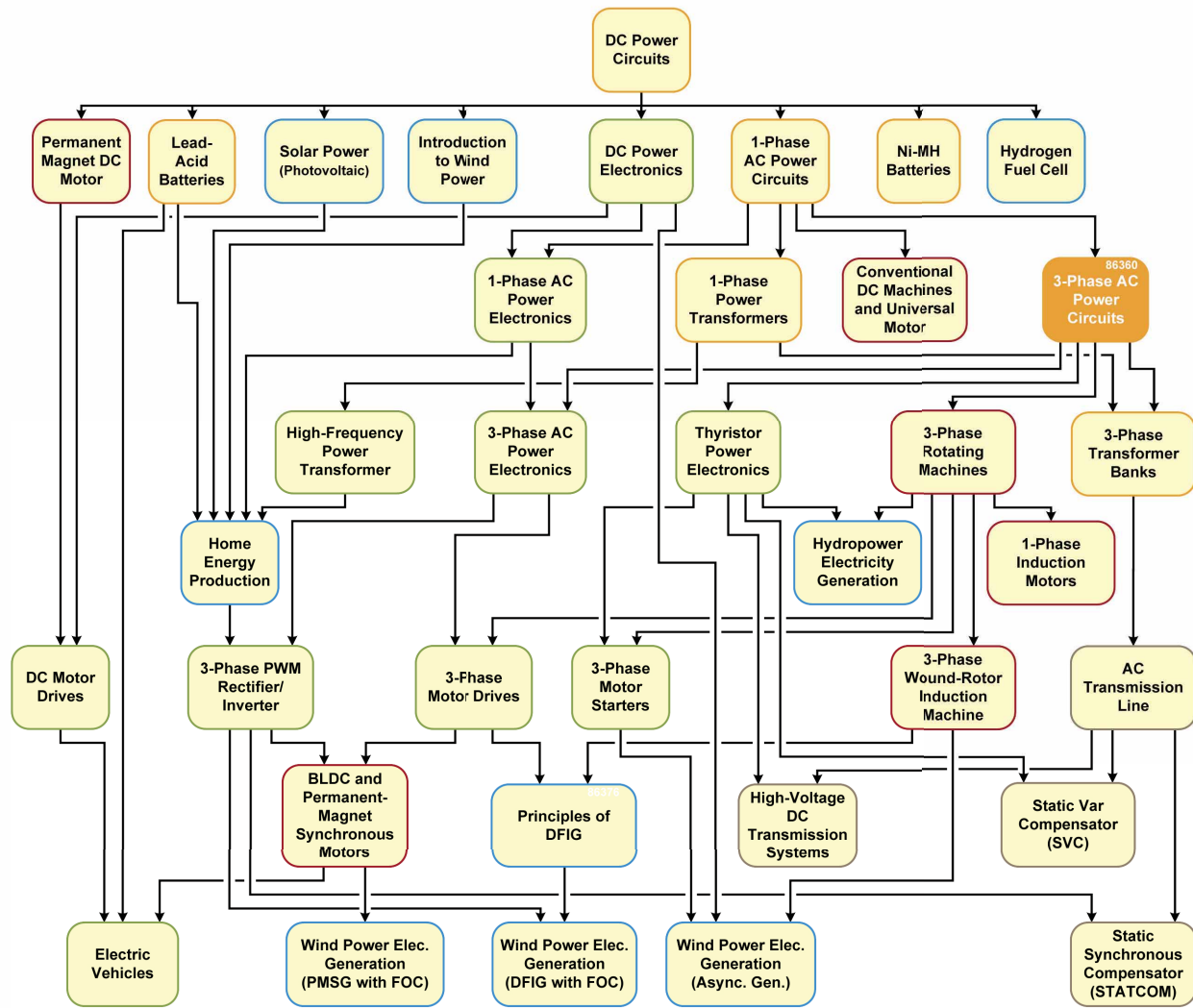
- » Use an eight-channel oscilloscope, as well as a phasor analyzer, to determine phase sequence.
- » Low-cost solution.



Lab-Volt®



Lab-Volt Electric Power Technology Training Program



Equipment

Qty	Model	Description	Qty	Model	Description
1	8131	Three-Module Workstation	1	9063-B	Data Acquisition and Control Interface
1	8311	Resistive Load	1	30004-2	24 V AC Power Supply
1	8331	Capacitive Load	1	86360/-1	Student Manual/Instructor Guide
1	8823	Three-Phase Power Supply			
1	8951-L	Connection Leads			

Lab-Volt reserves the right to make product improvements at any time and without notice. **Note:** A computer is required to perform the exercises.

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89075-00 Rev. A

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