

Power Electronics Study Guide

Lecture 1: Introduction to Power Electronics

Notes:

Switches:

- Power switches are key components in power electronics. When choosing a power switch, consider its power-handling capabilities (like how much current it can conduct and voltage it can block), its switching speed (how fast it can turn on and off), and its on/off resistances (voltage drop when on, and current leakage when off).

Single-Phase AC Circuits and Phasor Diagrams:

- A single-phase AC circuit is the simplest form of AC power delivery where power oscillates (rises and falls) over time. This type of circuit is common in household electrical systems and is used to power smaller appliances.
- In this circuit, elements like resistors (R) and inductors (jX) create resistance to the current. The total resistance, called the impedance ($Z = R + jX$), combines both the 'real' resistance (R) and the 'imaginary' inductive reactance (jX).
- Phasor diagrams help visualize how the voltage (V) and current (I) change over time in this circuit. A leading phasor means the voltage reaches its peak before the current, and a lagging phasor means the voltage reaches its peak after the current. This can be influenced by the resistors and inductors in the circuit.
- The current in a single-phase AC circuit is found by dividing the voltage (V) by the impedance (Z). This comes from Ohm's law, but here we're dealing with complex numbers, hence the phase angles.

Three-Phase AC Circuits:

- Three-phase circuits are used because they deliver power more smoothly. The power is non-pulsating, so there's less vibration in electrical machines. Plus, they're efficient for supplying large amounts of power, making them economical for industries.
- Three-Phase Source Diagram: This shows three separate AC voltage sources (V_{an} , V_{bn} , V_{cn}), representing the voltages of three conductors 'a', 'b', 'c' relative to the neutral 'n'.
- Voltages Versus Time Diagram: This graphically represents how the voltages (V_{an} , V_{bn} , V_{cn}) change over time. The three waveforms are 120 degrees out of phase from each other, providing a constant power supply.
- Phasor Diagram: This is a way of visualizing the three voltages (V_{an} , V_{bn} , V_{cn}) at a given moment in time. The phasors (vectors representing the magnitude and phase of the voltages) are plotted on a coordinate system with the real part (Re) on the x-axis and the imaginary part (Im) on the y-axis. These phasors also rotate 120 degrees apart, reinforcing the idea of continuous power delivery.

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