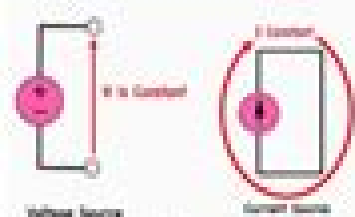
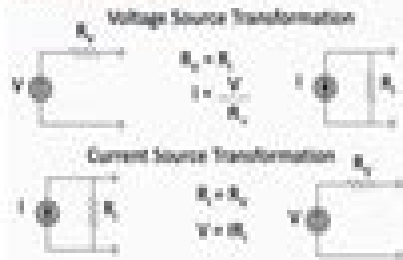


AC and DC sources



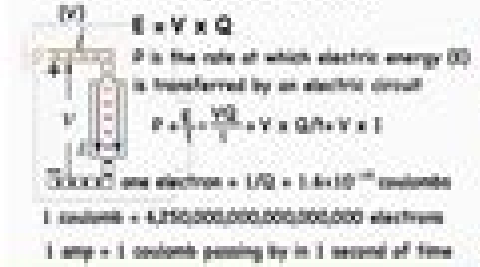
Source Transformation

The transformation of a power source from a voltage source to a current source, or a current source to a voltage source.

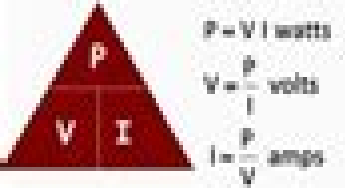


Electric Power

Work done or electric energy (E) is the movement of charge (Q) caused by EMF



Electrical power is measured in Watts (symbol: W)



IS EQUIVALENT FROM A Delta (Δ) to a Wye (Y)



IS EQUIVALENT FROM A Wye (Y) to a Delta (Δ)



Star - Star (Y - Y)



The Primary Voltage Relationship:

$$V_{ph} = \frac{V_L}{\sqrt{3}} \angle -30^\circ$$

$$V_L = \sqrt{3} V_{ph} \angle 30^\circ$$

The Secondary Voltage Relationship:

$$V_{ph} = \frac{V_L}{\sqrt{3}} \angle -30^\circ$$

$$V_{L_{max}} = \sqrt{3} V_{ph_{max}} \angle 30^\circ$$

The Turns Ratio of the Transformer:

$$\frac{V_{ph}}{V_{L_{max}}} = a = \frac{V}{\sqrt{3} V_{L_{max}}} = \frac{1}{\sqrt{3}}$$

$$\frac{V_{ph}}{V_{L_{max}}} = a = \frac{I_{L_{max}}}{I_{ph}} = \frac{1}{\sqrt{3}}$$

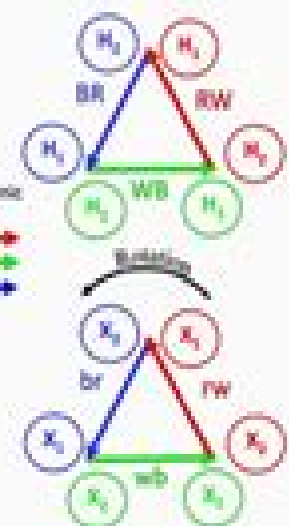
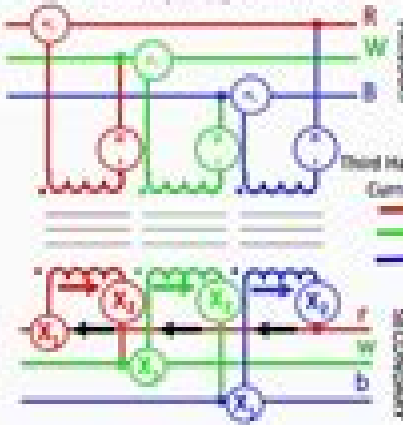
The Per Phase Equivalent



The Per Unit Equivalent



Delta - Delta (Δ-Δ) Connected



Delta - Delta (Δ-Δ)



The Turns Ratio of the Transformer:

$$\frac{V_{ph}}{V_{L_{max}}} = a = \frac{V}{\sqrt{3} V_{L_{max}}} = \frac{1}{\sqrt{3}}$$

The Per Phase Equivalent



The Per Unit Equivalent

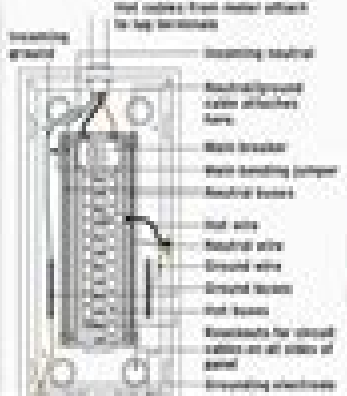
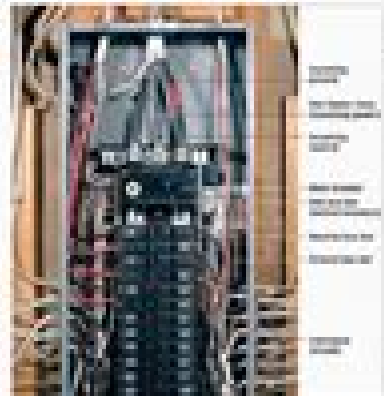


$$V_{ph} = \frac{V_L}{\sqrt{3}} \angle -30^\circ$$

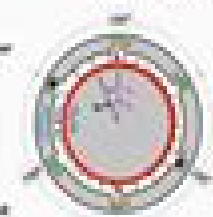
$$V_{L_{max}} = \frac{V_{ph_{max}}}{\sqrt{3}} \angle -30^\circ$$

$$\frac{V_{ph}}{V_{L_{max}}} = \frac{V}{V_{L_{max}}} = 1$$

$$\frac{I_{ph}}{I_{L_{max}}} = 1$$



Three-Phase Induced Voltage (EMF)



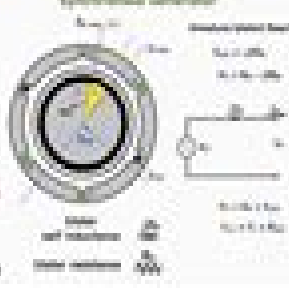
$$E_{ph} = \frac{N}{\omega} \frac{d\phi}{dt}$$

$$E_{ph} = \frac{N}{\omega} \frac{d\phi_m}{dt}$$

$$E_{ph} = \frac{N}{\omega} \frac{d\phi_m}{dt}$$

$$E_{ph} = \frac{N}{\omega} \frac{d\phi_m}{dt}$$

The Equivalent Circuit of a Synchronous Generator



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Jeff Setzer



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