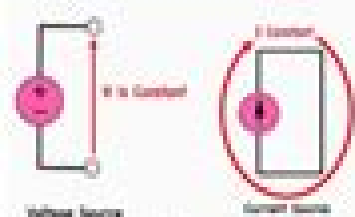
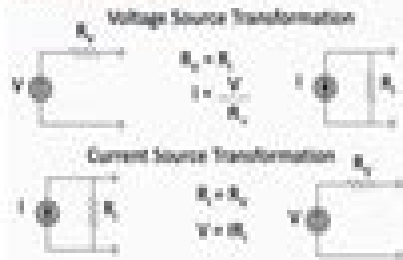


# AC and DC sources



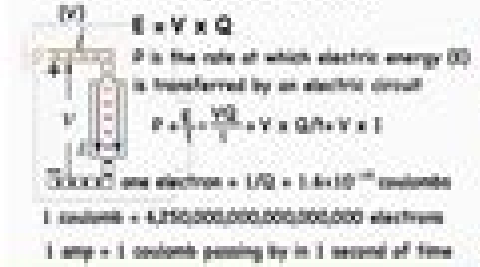
## Source Transformation

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

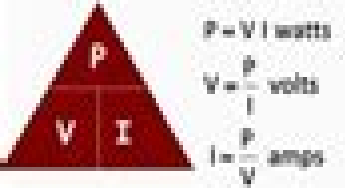


## Electric Power

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)



$$R_1 = \frac{R_2 R_3}{R_1 + R_2 + R_3}$$

$$R_2 = \frac{R_1 R_3}{R_1 + R_2 + R_3}$$

$$R_3 = \frac{R_1 R_2}{R_1 + R_2 + R_3}$$

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

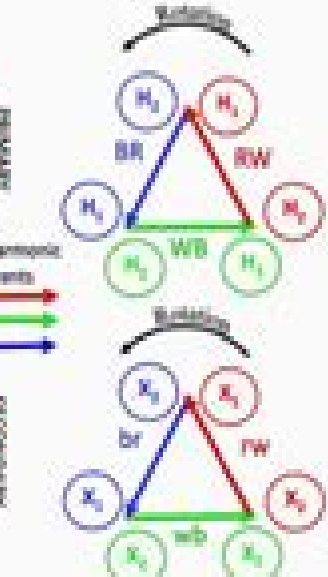
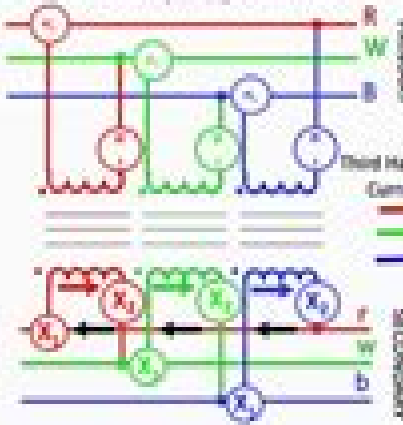


$$R_1 = \frac{R_2 R_3 + R_1 R_2 + R_1 R_3}{R_2}$$

$$R_2 = \frac{R_1 R_3 + R_1 R_2 + R_1 R_3}{R_1}$$

$$R_3 = \frac{R_1 R_2 + R_1 R_3 + R_1 R_2}{R_1}$$

## Delta - Delta (Δ-Δ) Connected



# 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:

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

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

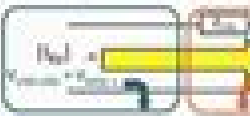
The Turns Ratio of the Transformer:

$$\frac{V_{ph}}{V_{Lsecondary}} = a = \frac{V_L}{\sqrt{3} V_{Lsecondary}} = \frac{1}{\sqrt{3}}$$

## The Per Phase Equivalent



## The Per Unit Equivalent



$$\frac{V_{ph}}{V_{Lsecondary}} = a = \frac{V_L}{\sqrt{3} V_{Lsecondary}} = \frac{1}{\sqrt{3}}$$

# Delta - Delta (Δ-Δ)



The Turns Ratio of the Transformer:

$$\frac{V_{ph}}{V_{Lsecondary}} = a = \frac{V_L}{\sqrt{3} V_{Lsecondary}} = \frac{1}{\sqrt{3}}$$

## The Per Phase Equivalent



## The Per Unit Equivalent



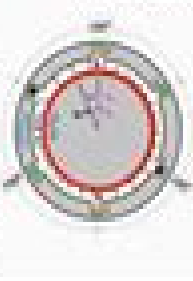
$$V_{ph} = \frac{V_L}{\sqrt{3}} \angle -30^\circ$$

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

$$\frac{V_{ph}}{V_{Lsecondary}} = a = \frac{V_L}{\sqrt{3} V_{Lsecondary}} = \frac{1}{\sqrt{3}}$$



## Three-Phase Induced Voltage (EMF)



## The Equivalent Circuit of a Synchronous Generator



# Electrical Engineering Aide Specialist 1 Study Guide

**A Gutmann**



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