

**VOLTAGE AND CURRENT 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.



**IS CONCEPT FROM 2**



$$R_a = \frac{R_{12} R_{31}}{R_{12} + R_{23} + R_{31}}$$

$$R_b = \frac{R_{12} R_{23}}{R_{12} + R_{23} + R_{31}}$$

$$R_c = \frac{R_{23} R_{31}}{R_{12} + R_{23} + R_{31}}$$

**IS CONCEPT FROM 2**

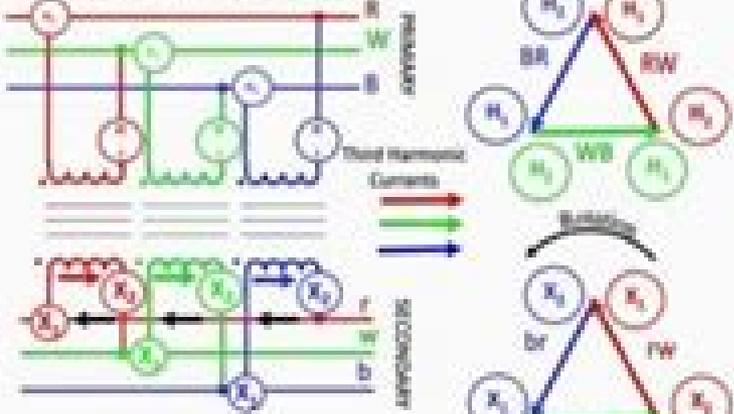


$$R_{12} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_c}$$

$$R_{23} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_a}$$

$$R_{31} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_b}$$

**Delta - Delta ( $\Delta-\Delta$ ) Connected**



**TRANSFORMER CONNECTIONS**



**The Primary Voltage Relationship**

$$V_p = \sqrt{3} V_{p-ph} \angle 30^\circ$$

$$V_s = \sqrt{3} V_{s-ph} \angle 30^\circ$$

**The Secondary Voltage Relationship**

$$V_p = \sqrt{3} V_{p-ph} \angle 30^\circ$$

$$V_{s-line} = \sqrt{3} V_{s-ph} \angle 30^\circ$$

**The Turns Ratio of the Transformer**

$$\frac{V_p}{V_s} = \dots = \frac{N_p}{N_s} = \frac{I_s}{I_p} = \frac{S_p}{S_s}$$



**The Per Unit Equivalent**



**Delta - Delta ( $\Delta-\Delta$ )**



**The Turns Ratio of the Transformer**

$$\frac{V_p}{V_s} = \dots = \frac{N_p}{N_s} = \frac{I_s}{I_p} = \frac{S_p}{S_s}$$



**The Per Unit Equivalent**



**Three-Phase Induced Voltage (EMF)**



$V_{p-ph} = \frac{4.44 f N \Phi_m}{\sqrt{2}}$   
 $V_{s-ph} = \frac{4.44 f N_s \Phi_m}{\sqrt{2}}$   
 $V_{p-ph} = \frac{N_p}{N_s} V_{s-ph}$   
 $V_{p-line} = \sqrt{3} V_{p-ph} \angle 30^\circ$   
 $V_{s-line} = \sqrt{3} V_{s-ph} \angle 30^\circ$

**The Equivalent Circuit of a Synchronous Generator**



**Electric Power**

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

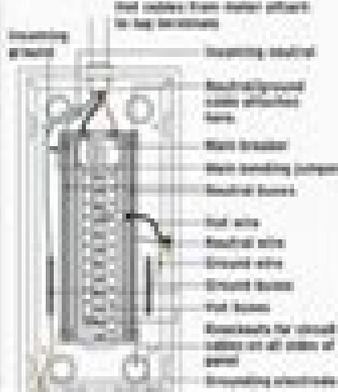
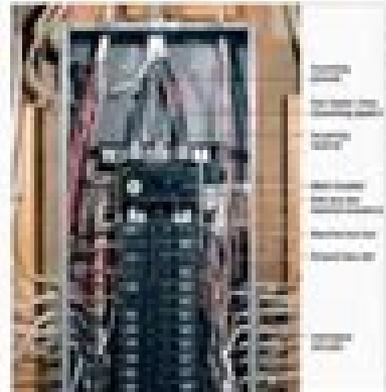
$E = V \times Q$

$P$  is the rate of which electric energy ( $Q$ ) is transferred by an electric circuit

$$P = \frac{dQ}{dt} = V \times \frac{dQ}{dt} = V \times I$$

1 Coulomb = 1.6 x 10<sup>-19</sup> electrons  
 1 amp = 1 coulomb passing by in 1 second of time

Electrical power is measured in Watts (symbol: W)



# Electrical Engineering And Intelligent Systems Lecture Notes In Electrical Engineering

**Yingmin Jia,Junping Du,Weicun Zhang**

## **Electrical Engineering And Intelligent Systems Lecture Notes In Electrical Engineering:**

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*Electrical Engineering*, 1915 *The Electrical Engineer*, 1899

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