

**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.



**Electric Power**

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

$E = V \times Q$

P is the rate at which electric energy (E) is transferred by an electric circuit

$P = \frac{E}{t} = \frac{V \times Q}{t} = V \times \frac{Q}{t} = V \times I$

1 electron =  $1.6 \times 10^{-19}$  coulombs

1 coulomb = 6,250,000,000,000,000,000 electrons

1 amp = 1 coulomb passing by in 1 second of time

Electrical power is measured in Watts (symbol: W)



**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**

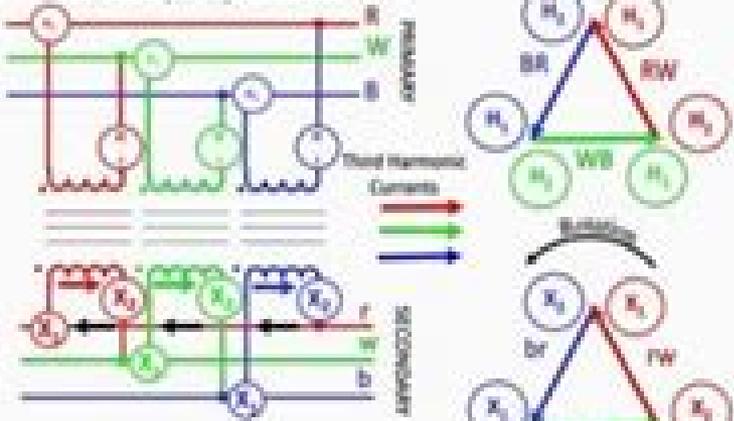


$R_{12} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_c}$

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

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

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



**TRANSFORMER CONNECTIONS**



**The Primary Voltage Relationship**

$V_{p1} = \sqrt{3} V_{ph1} \angle 30^\circ$

$V_{p2} = \sqrt{3} V_{ph2} \angle 30^\circ$

**The Secondary Voltage Relationship**

$V_{s1} = \sqrt{3} V_{ph1} \angle 30^\circ$

$V_{s2} = \sqrt{3} V_{ph2} \angle 30^\circ$

**The Turns Ratio of the Transformer:**

$\frac{V_{p1}}{V_{s1}} = \dots = \frac{N_1}{N_2} = \frac{V_{ph1}}{V_{ph2}} = \frac{I_{ph2}}{I_{ph1}}$



**The Turns Ratio of the Transformer:**

$\frac{V_{p1}}{V_{s1}} = \dots = \frac{N_1}{N_2} = \frac{V_{ph1}}{V_{ph2}} = \frac{I_{ph2}}{I_{ph1}}$



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



# Basic Electrical Notes

**Lauren Gardner**



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