

SOURCE AND CIRCUIT CONCEPTS



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 of 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 = 1.6×10^{-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)

$P = V I$ watts
 $V = \frac{P}{I}$ volts
 $I = \frac{P}{V}$ amps

IS CONCEPT FROM 2



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

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

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

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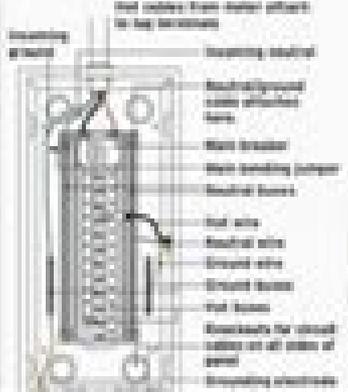
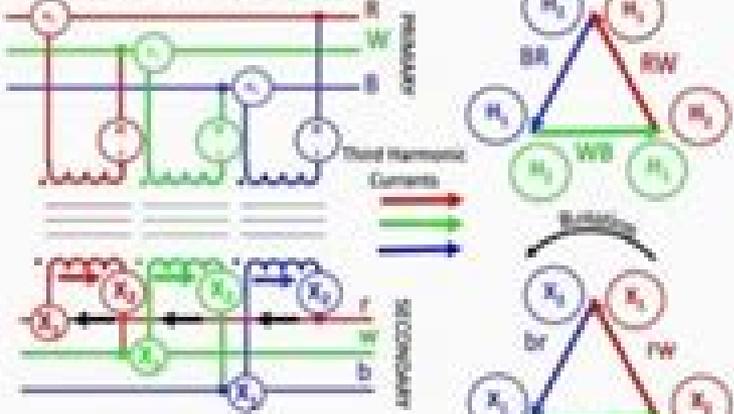


$R_{12} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_c}$

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

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

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



TRANSFORMER CONNECTIONS

Star - Star ($Y-Y$)



The Primary Voltage Relationship

$V_{p1} = \sqrt{3} V_{p2} \angle 30^\circ$
 $V_{p2} = \frac{V_{p1}}{\sqrt{3}} \angle -30^\circ$

The Secondary Voltage Relationship

$V_{s1} = \sqrt{3} V_{s2} \angle 30^\circ$
 $V_{s2} = \frac{V_{s1}}{\sqrt{3}} \angle -30^\circ$

The Turns Ratio of the Transformer

$\frac{V_{p1}}{V_{s1}} = \dots = \frac{V_{p2}}{V_{s2}} = \frac{N_1}{N_2}$

The Per Phase Equivalent



The Per Unit Equivalent



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



The Turns Ratio of the Transformer

$\frac{V_{p1}}{V_{s1}} = \dots = \frac{V_{p2}}{V_{s2}} = \frac{N_1}{N_2}$

The Per Phase Equivalent



$V_{p1} = \frac{V_{p2}}{\sqrt{3}} \angle -30^\circ$
 $V_{s1} = \frac{V_{s2}}{\sqrt{3}} \angle -30^\circ$

The Per Unit Equivalent



Three-Phase Induced Voltage (EMF)



The Equivalent Circuit of a Transformer



Basic Electrical Notes

Chao Zhang



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