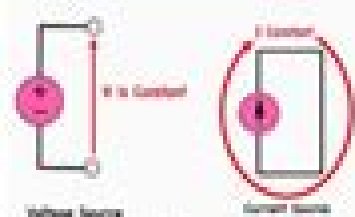


AC and DC sources



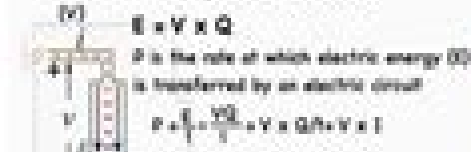
Source Transformation

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

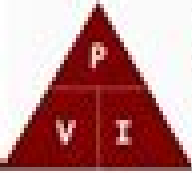


1 electron = 1.6×10^{-19} coulombs

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 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)

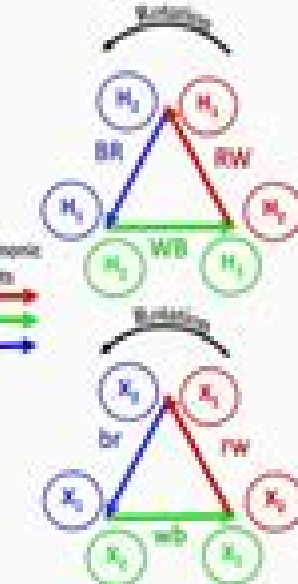
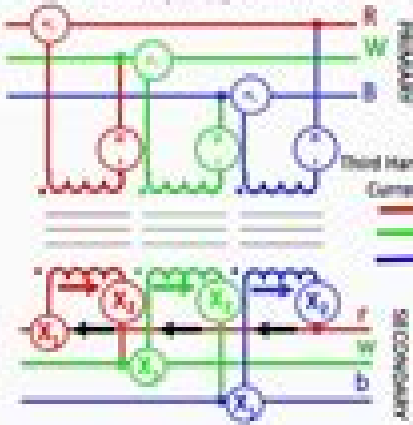


$R_{12} = \frac{R_1 R_2 + R_2 R_3 + R_3 R_1}{R_3}$

$R_{23} = \frac{R_1 R_2 + R_2 R_3 + R_3 R_1}{R_1}$

$R_{31} = \frac{R_1 R_2 + R_2 R_3 + R_3 R_1}{R_2}$

Delta - Delta (Δ-Δ) Connected



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:

$\frac{V_{p1}}{V_{p2}} = \frac{N_1}{N_2} = \frac{I_2}{I_1} = \frac{1}{a}$

The Per Phase Equivalent



The Per Unit Equivalent



Delta - Delta (Δ-Δ)



The Turns Ratio of the Transformer:

$\frac{V_{p1}}{V_{p2}} = \frac{N_1}{N_2} = \frac{I_2}{I_1} = \frac{1}{a}$

The Per Phase Equivalent



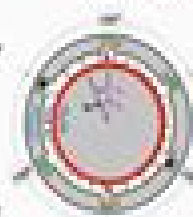
$V_{p1} = \frac{V_{p2}}{\sqrt{3}} \angle -30^\circ$

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

The Per Unit Equivalent



Three Phase Induced Voltage (EMF)

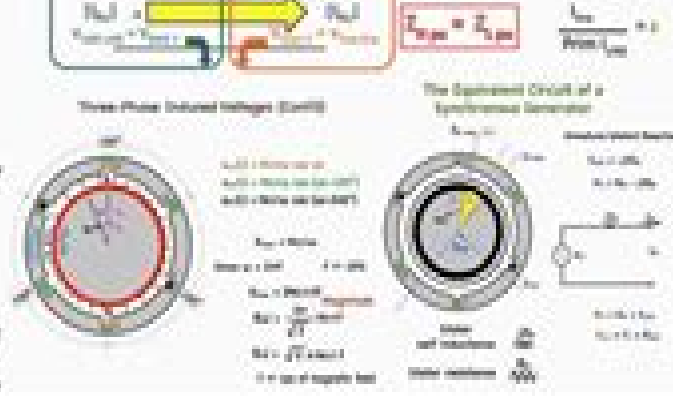
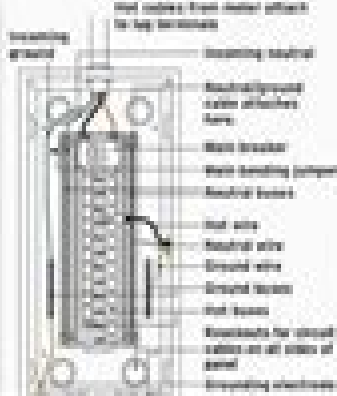
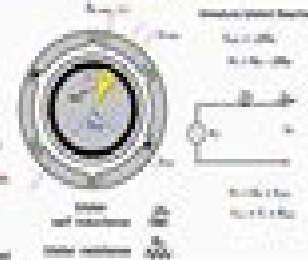


$E = \frac{d\Phi}{dt}$

$E = \frac{d\Phi}{dt} = \frac{d\Phi}{dt} \times \frac{1}{\sqrt{2}} = \frac{E_m}{\sqrt{2}}$

$E = \frac{E_m}{\sqrt{2}} \angle -90^\circ$

The Equivalent Circuit of a Synchronous Generator



Maple 12 And Electrical Engineering

ML Morrison



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