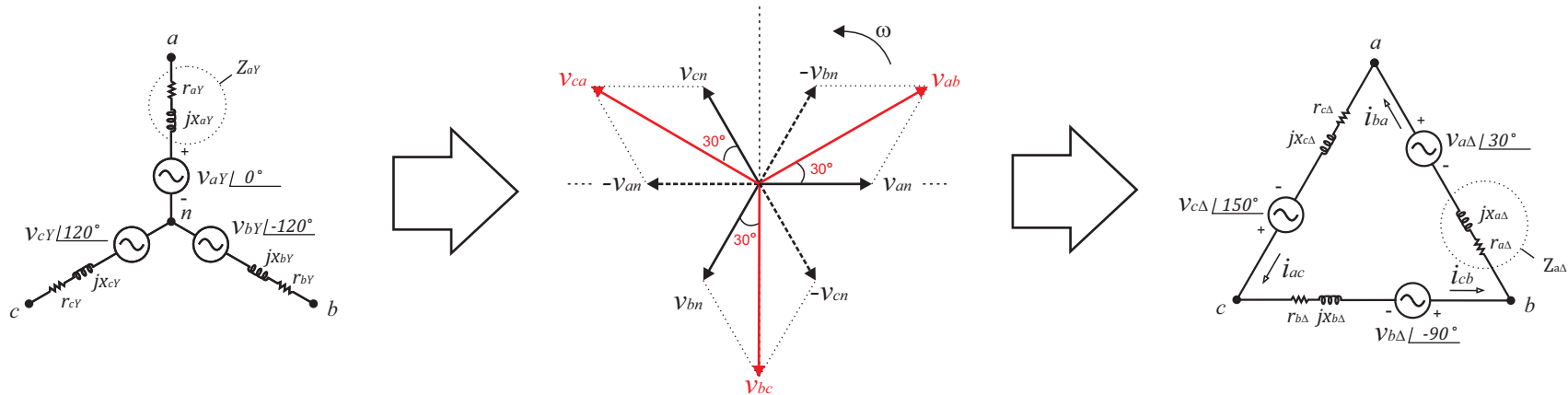


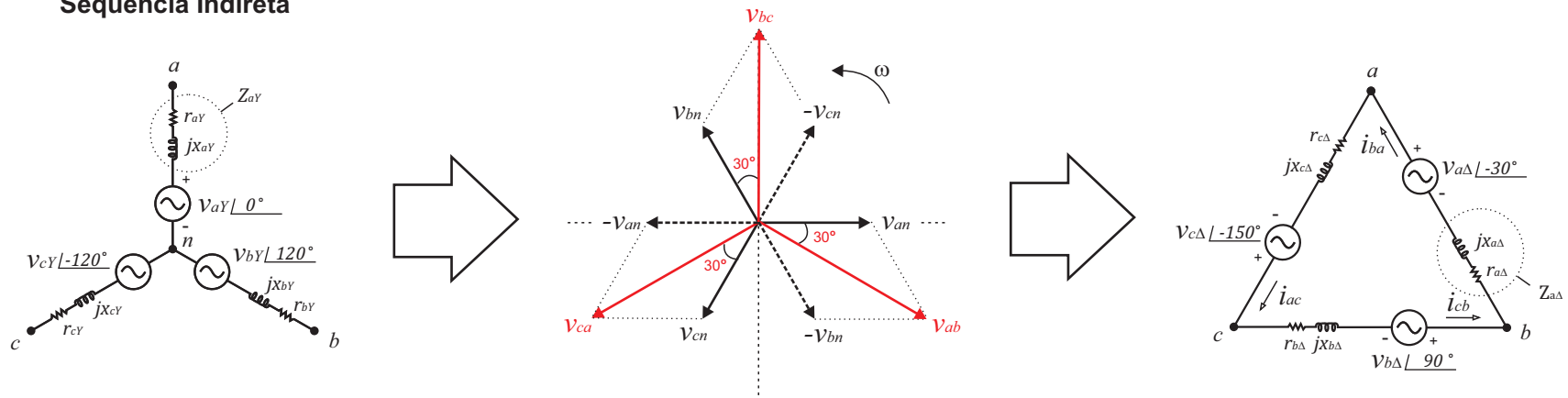
Fonte com Impedância Interna Transformação Y-Δ

Sequência Direta



$$\begin{aligned} V_{aY} &= V_{bY} = V_{cY} = V \\ V_{a\Delta} &= V_{b\Delta} = V_{c\Delta} = \sqrt{3}V \\ Z_{aY} &= Z_{bY} = Z_{cY} = Z \\ Z_{a\Delta} &= Z_{b\Delta} = Z_{c\Delta} = 3Z \end{aligned}$$

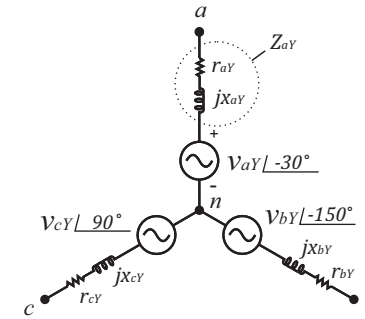
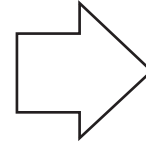
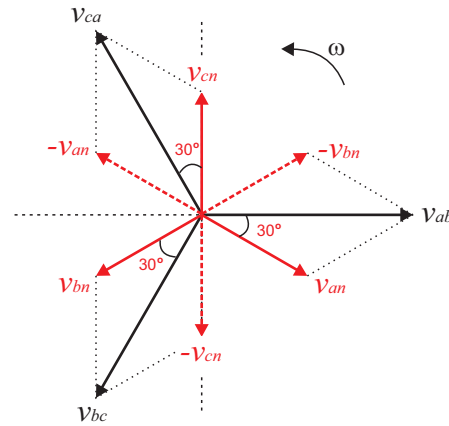
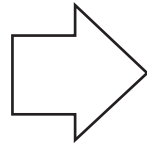
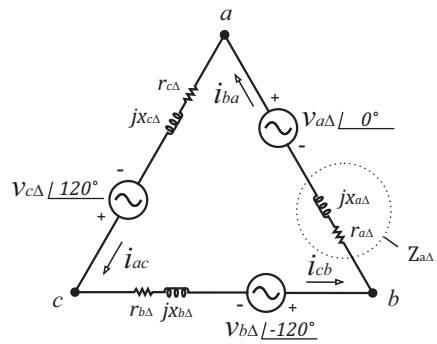
Sequência Indireta



$$\begin{aligned} V_{aY} &= V_{bY} = V_{cY} = V \\ V_{a\Delta} &= V_{b\Delta} = V_{c\Delta} = \sqrt{3}V \\ Z_{aY} &= Z_{bY} = Z_{cY} = Z \\ Z_{a\Delta} &= Z_{b\Delta} = Z_{c\Delta} = 3Z \end{aligned}$$

Fonte com Impedância Interna Transformação Δ -Y

Sequência Direta



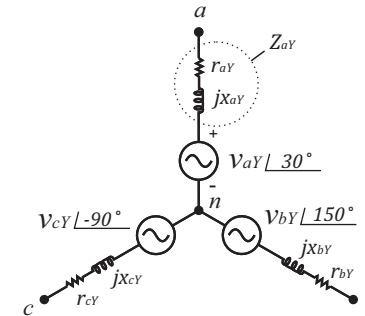
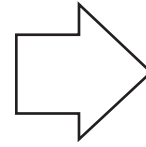
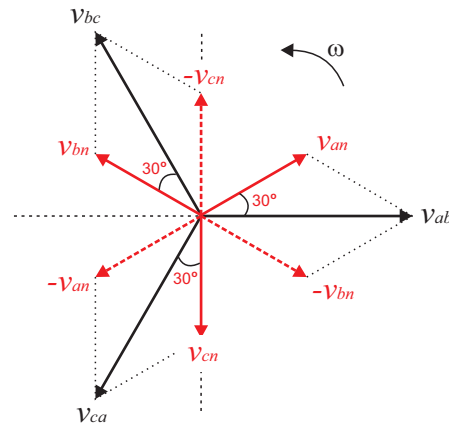
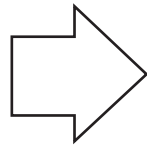
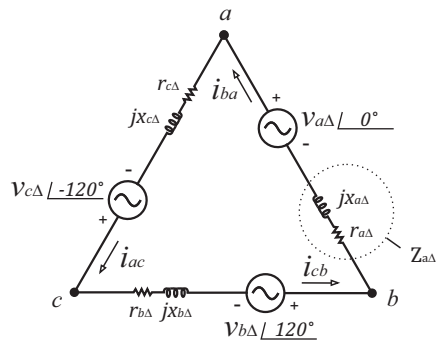
$$v_{a\Delta} = v_{b\Delta} = v_{c\Delta} = v$$

$$v_{aY} = v_{bY} = v_{cY} = \frac{v}{\sqrt{3}}$$

$$Z_{a\Delta} = Z_{b\Delta} = Z_{c\Delta} = Z$$

$$Z_{aY} = Z_{bY} = Z_{cY} = \frac{Z}{3}$$

Sequência Inversa



$$v_{a\Delta} = v_{b\Delta} = v_{c\Delta} = v$$

$$v_{aY} = v_{bY} = v_{cY} = \frac{v}{\sqrt{3}}$$

$$Z_{a\Delta} = Z_{b\Delta} = Z_{c\Delta} = Z$$

$$Z_{aY} = Z_{bY} = Z_{cY} = \frac{Z}{3}$$