

Les vecteurs (phaseurs) en alternatif

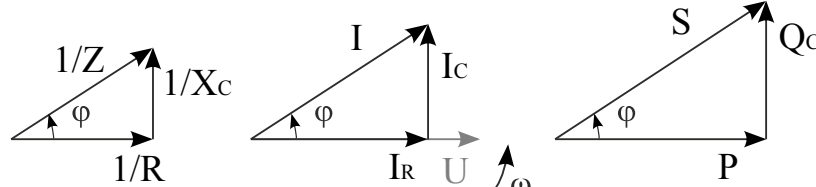
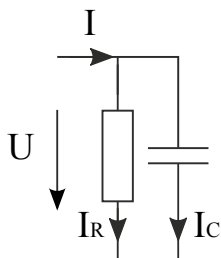
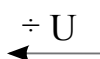
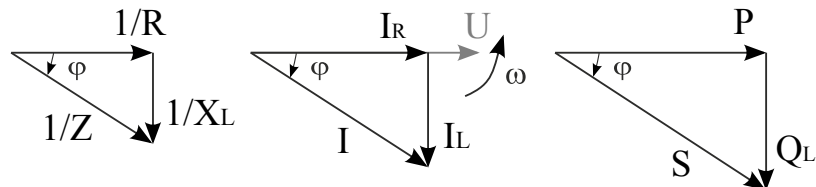
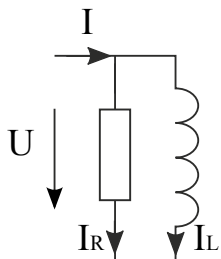
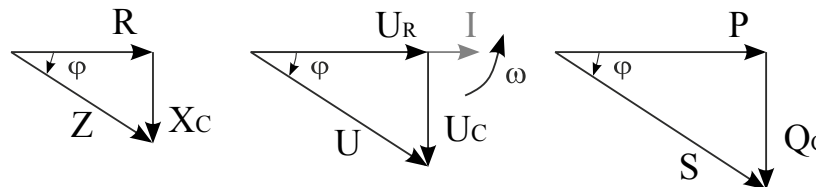
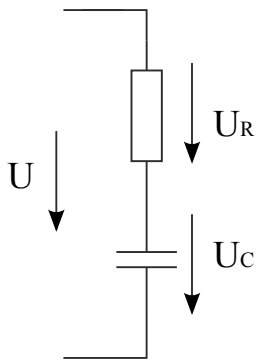
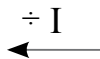
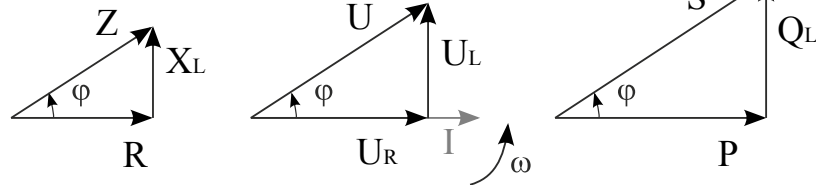
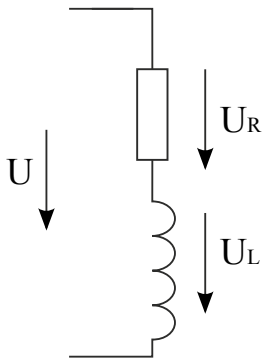
$$X_L = \omega \cdot L$$

$$X_C = \frac{1}{\omega \cdot C}$$

$$\omega = 2 \cdot \pi \cdot f$$

L: inductance [H]
C: capacité [F]
 ω : pulsation [rad/s]

Facteur de puissance:
 $\cos(\varphi)$



R: Résistance [Ω]
X: Réactance [Ω]
Z: impédance [Ω]

$Y = 1/R$: Conductance [S]
 $B = 1/X$: Susceptance [S]
 $G = 1/Z$: Admittance [S]

[S]: Siemens ou [mho]

P: Puissance active [W]
Q: Puissance réactive [Var]
S: Puissance apparente [VA]