

Upori v izmeničnem električnem tokokrogu

vezje	tok in napetost	upornost in prevodnost	moč
	$I_R = \frac{U}{R}$ $I_C = \frac{U}{X_C}$ $I = \frac{U}{Z}$ $I^2 = I_R^2 + I_C^2$ $\tan \varphi = \frac{I_C}{I_R}; \cos \varphi = \frac{I_R}{I}$ $\sin \varphi = \frac{I_C}{I}$	$Y^2 = G^2 + B_C^2$ $\left(\frac{1}{Z}\right)^2 = \left(\frac{1}{R}\right)^2 + \left(\frac{1}{X_C}\right)^2$ $\tan \varphi = \frac{R}{X_C}; \cos \varphi = \frac{Z}{R}$ $\sin \varphi = \frac{Z}{X_C}$	$P = I_R \cdot U$ $Q_C = I_C \cdot U$ $S = I \cdot U$ $S^2 = P^2 + Q_C^2$ $\tan \varphi = \frac{Q_C}{P}; \cos \varphi = \frac{P}{S}$ $\sin \varphi = \frac{Q_C}{S}$
	$U_L > U_C$ $U_L < U_C$ $U^* = U_L - U_C$ $U^* = U_C - U_L$ $U^2 = U_R^2 + U^{*2}$ $\tan \varphi = \frac{U^*}{U_R}$ $\sin \varphi = \frac{U^*}{U}; \cos \varphi = \frac{U_R}{U}$	$U_L > U_C$ $U_L < U_C$ $Z^2 = R^2 + X^{*2}$ $\tan \varphi = \frac{X^*}{R}$ $\sin \varphi = \frac{X^*}{Z}; \cos \varphi = \frac{R}{Z}$	$Q_L > Q_C$ $Q_L < Q_C$ $S^2 = P^2 + Q^{*2}$ $\tan \varphi = \frac{Q^*}{P}$ $\sin \varphi = \frac{Q^*}{S}; \cos \varphi = \frac{P}{S}$
	$I_C > I_L$ $I_C < I_L$ $I^* = I_C - I_L$ $I^* = I_L - I_C$ $I^2 = I_R^2 + I^{*2}$ $\tan \varphi = \frac{I^*}{I_R}$ $\sin \varphi = \frac{I^*}{I}; \cos \varphi = \frac{I_R}{I}$	$I_C > I_L$ $I_C < I_L$ $Y^2 = G^2 + B^2$ $\left(\frac{1}{Z}\right)^2 = \left(\frac{1}{R}\right)^2 + \left(\frac{1}{X^*}\right)^2$ $\tan \varphi = \frac{R}{X^*}$ $\sin \varphi = \frac{Z}{X^*}; \cos \varphi = \frac{Z}{R}$	$Q_C > Q_L$ $Q_C < Q_L$ $Q^* = Q_C - Q_L$ $Q^* = Q_L - Q_C$ $S^2 = P^2 + Q^{*2}$ $\tan \varphi = \frac{Q^*}{P}$ $\sin \varphi = \frac{Q^*}{S}; \cos \varphi = \frac{P}{S}$