Complex Power

$$\hat{S} = \text{complex power}$$

$$\hat{S} = \hat{V} \cdot \hat{L}^* \qquad \hat{V} = \text{Vrms LB}$$

$$\hat{S} = (\text{Vrms LB}) (\text{Trms L-}\Phi)$$

$$\hat{S} = (\text{Vrms Irms}) (\text{LB}-\Phi) \quad [\text{Volt-amperes, VA}]$$

$$\hat{S} = (\text{Vrms Irms}) (\text{LB}-\Phi) \quad [\text{Volt-amperes, VA}]$$

$$\hat{S} = P + j Q \qquad P = \text{Re} \left[\hat{S} \right]$$

$$Q = \text{Trm} \left[\hat{S} \right]$$

$$P = \text{Vrms Irms cas} (B - \Phi) \quad [\text{Walts, W}]$$

$$Q = \text{Vrms Irms sin} (B - \Phi) \quad [\text{Volt-amperes, reactive VAK}]$$

$$\hat{S} = \hat{V} \cdot \hat{L}^* = (\text{Vrms Irms}) (\text{LB}-\Phi)$$

$$P = \text{Vrms Irms cas} (B - \Phi)$$

$$Q = \text{Vrms Irms sin} (B - \Phi)$$

$$Q = \text{Vrms Irms loo} (B - \Phi)$$

$$Q = \text{Vrms} \text{Irms loo} (B - \Phi)$$

$$Q = \text{Vrms} \text{Irms loop} \text{on } Q = \text{Vrms} \text{on } Q = \text{Vrm$$