Exemples cours Corrigé



Page 77 Puissance active	charge P = 711 W	
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$$T = \frac{1}{J} = 20 \text{ m}$$
 $f = E \cdot \frac{1}{2} \cdot 2\pi = -4 \text{ m} \cdot 50.2\pi = -0.22\pi = -72^\circ = -0.4\pi$
 $P = UI \cdot GSV = 230.40.0.31 = 740 \text{ W}$

Page 79	Puissance réactive, apparente et complexe charge	Q = -2187 var, S = 2300 VA, Scompl = $P+jQ = S^*e^{jph}i = 2300^*e^{j-72^*}$
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$$P = U \cdot I \cdot (\cos \varphi = 230 \cdot 10 \cdot \cos (-72^{\circ}) = 711 \cdot IV$$

$$Q = U \cdot I \cdot \sin \varphi = 230 \cdot 10 \sin (-72^{\circ}) = -2187 \text{ Var}$$

$$S = V P^{2} + Q^{2} = V 711^{2} + 2187^{2} = 2300 \text{ VA}$$

$$S = P + jQ = S \cdot e^{j\varphi} = 2300 \cdot e^{j-72^{\circ}} \text{ VA}$$