

Chapter 11, Problem 48.

Determine the complex power for the following cases:

- (a) $P = 269 \text{ W}$, $Q = 150 \text{ VAR}$ (capacitive)
- (b) $Q = 2000 \text{ VAR}$, $\text{pf} = 0.9$ (leading)
- (c) $S = 600 \text{ VA}$, $Q = 450 \text{ VAR}$ (inductive)
- (d) $V_{\text{rms}} = 220 \text{ V}$, $P = 1 \text{ kW}$, $|Z| = 40 \Omega$ (inductive)