Chapter 11, Problem 49.

Find the complex power for the following cases:

(a) $P = 4$ kW, pf $= 0.86$ (lagging)

(b) $S = 2$ kVA, $P = 1.6$ kW (capacitive)

(c) $\mathbf{V}_{rms} = 208 \angle 20°$ V, $\mathbf{I}_{ms} = 6.5 \angle \text{-}50°$ A

(d) $\mathbf{V}_{rms} = 120 \angle 30°$ V, $\mathbf{Z} = 40 + j60\Omega$