

**Chapter 11, Problem 75.**

Consider the power system shown in Fig. 11.90. Calculate:

- (a) the total complex power
- (b) the power factor
- (c) the capacitance necessary to establish a unity power factor

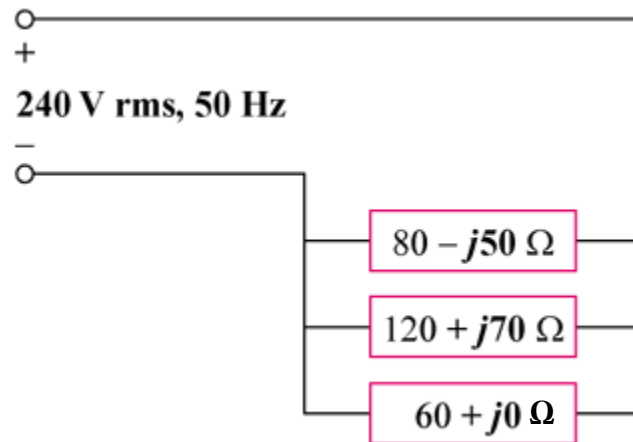


Figure 11.90  
For Prob. 11.75.