Chapter 11 Problem 53

In the circuit shown in Fig. 11.72, load A receives 4 kVA at 0.8 pf leading. Load B receives 2.4 kVA at 0.6 pf lagging. Box C is an inductive load that consumes 1 kW and receives 500 VAR. (a) Determine I. (b) Calculate the power factor of the combination.
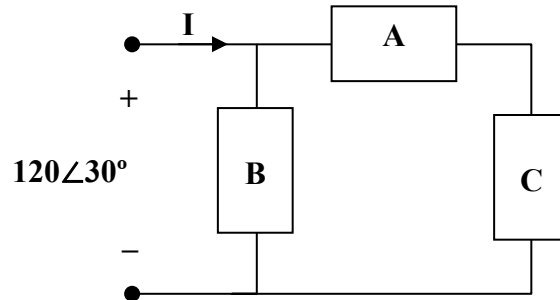

Figure 11.72
For Prob. 11.53.