

Homework 6 Answers

Please be sure to clearly show your work in the solutions that you submit. Your approach is much more important than obtaining the correct numerical answer.

Problem 8.23: (a) $pf = 0.84$, lagging

Problem 8.24: (a) $pf_1 = 0.55$, lagging; $pf_2 = 0.89$, lagging; $pf_s = 0.86$, lagging

Problem 8.25: (a) $\mathbf{Z}_1 = (4.55 - j5.18) \Omega$ [note different than back of book!],
 $\mathbf{Z}_2 = (7.23 + j5.05) \Omega$. (b) $(555.0 - j3.4) \text{ V} = 555 \angle -0.3^\circ \text{ V}$