Engineering Electromagnetics
Laboratory Exercise No. 6 – Smith Chart

Handed out: November 23 and December 2, 2016
Lab Write-up Due: December 14, 2016

Reading Assignment: Prior to the laboratory date, read chapter 11 in *Engineering Electromagnetics* by William H. Hayt, Jr. and John A. Buck.

Equipment Required: Computer. Several paper copies of the Smith Chart.

In this laboratory exercise, you will use both a paper version and a computer version of the Smith Chart to determine several transmission line quantities including input impedance, reflection coeffcient, load impedance, and impedance along a section of line.

1. Solve problem 10.21 (a) and (b) using the Smith Chart in *Engineering Electromagnetics* by William H. Hayt, Jr. and John A. Buck.
2. Solve problem 10.22 in *Engineering Electromagnetics* by William H. Hayt, Jr. and John A. Buck.
3. Solve problem 10.23 in *Engineering Electromagnetics* by William H. Hayt, Jr. and John A. Buck.
4. Solve problem 10.24 in *Engineering Electromagnetics* by William H. Hayt, Jr. and John A. Buck.

Laboratory Write-up: Hand in calculations and Smith Charts for the items listed above.