

## E157 Lecture 5 Day Plan

Any questions before quiz

Quiz + Team Quiz + Talk through solution

Schedule change ups: 9/18 moving lectures forward, 9/27 Prof. Brake, 9/18 reschedule to Sat.

What are all the sliders and bars on a full Smith Chart (linked on course site)? – VSWR, lambda, etc.

Practice with admittance:  $Y_n$  for 100 ohms w/ 10pF shunt? 100 ohms w/ 1nH shunt?

Smith chart practice table below

Check-in, office hours

You are driving a into a load  $Z_l$  from a 50 ohm line. Fill in the table below and mark points/loci for each load on the Smith Chart on the next page assuming  $w$  and  $k$  range from 0 to infinity.

Case	$Z_l$	$Z_n$	$\Gamma$ expressed as $a+b*j$
1	50		
2	$50+j*50$		
3	$50+j*100$		
4	$50+j*k*50$		
5	$200+jwL$		
6	$100+1/jwC$		
7	$100+j*50$		
8	$50*k+j*50$		

NAME	TITLE	DWG. NO.
		DATE

### NORMALIZED IMPEDANCE AND ADMITTANCE COORDINATES

