

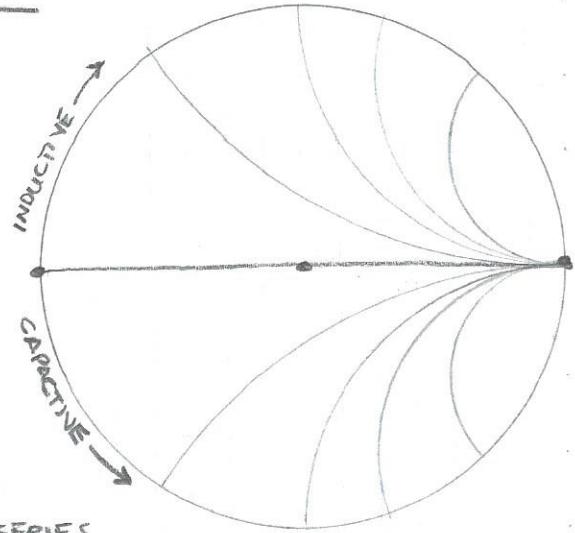
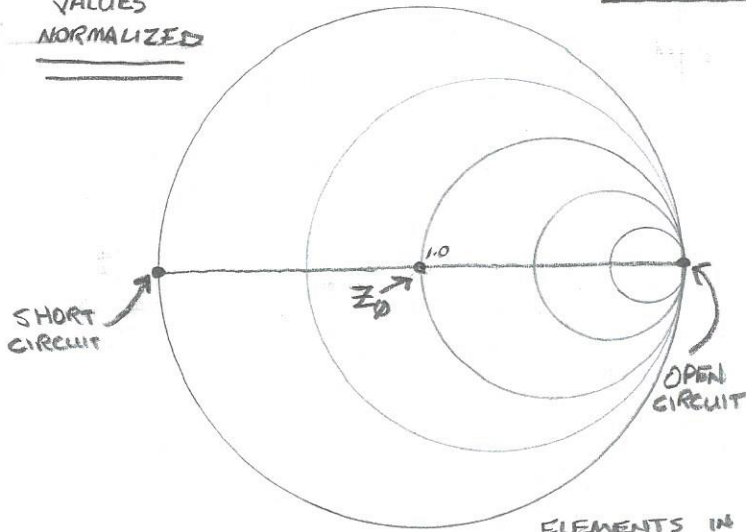
IMPEDANCE CURVES

RESISTANCE CIRCLES

$R + jX$

REACTANCE CIRCLES

VALUES NORMALIZED



ELEMENTS IN SERIES



ROTATE BY 180°

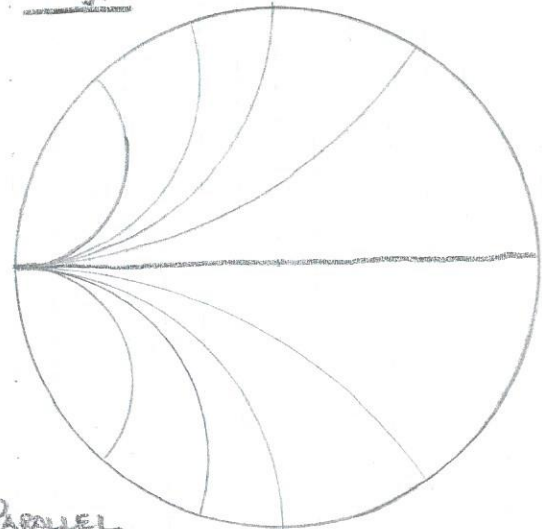
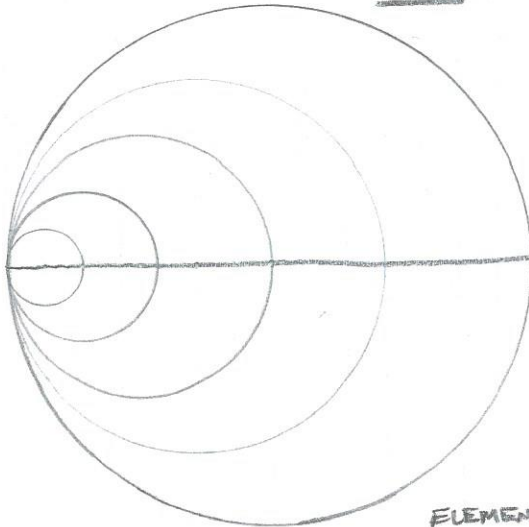
ADMITTANCE CURVES

CONDUCTANCE

$\frac{1}{R} = G$

$Y = \frac{1}{jX}$

SUSCEPTANCE

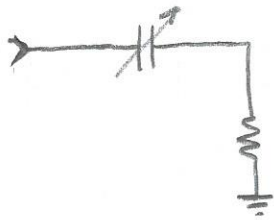
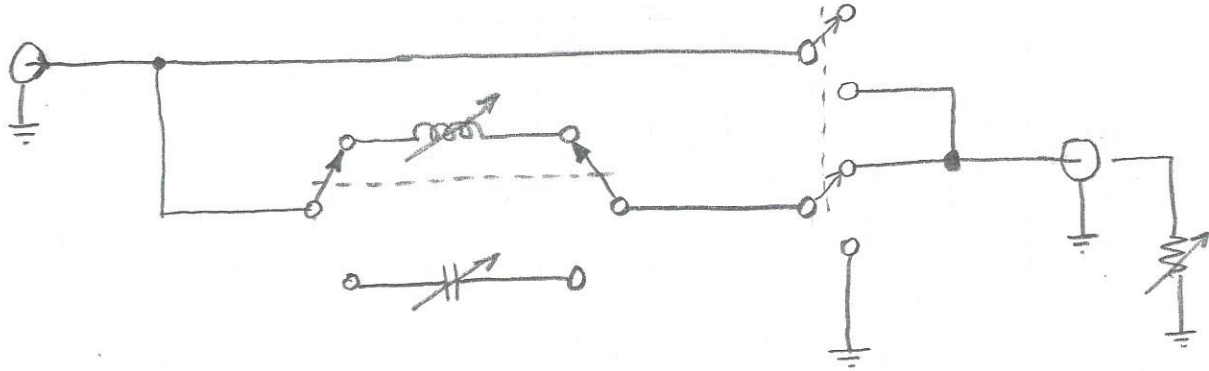


ELEMENTS IN PARALLEL

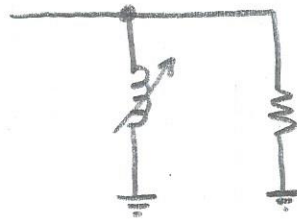
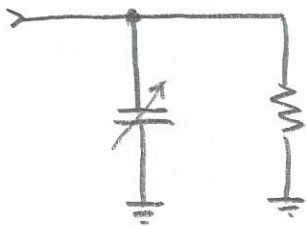


$\frac{1}{Z} = \frac{1}{R} + \frac{1}{jX}$

DEMONSTRATOR CIRCUIT



SERIES



PARALLEL

The Smith Chart Calculator

$$Z = 1.4 + j0.8$$

$$Y = 0.54 - j0.31$$

