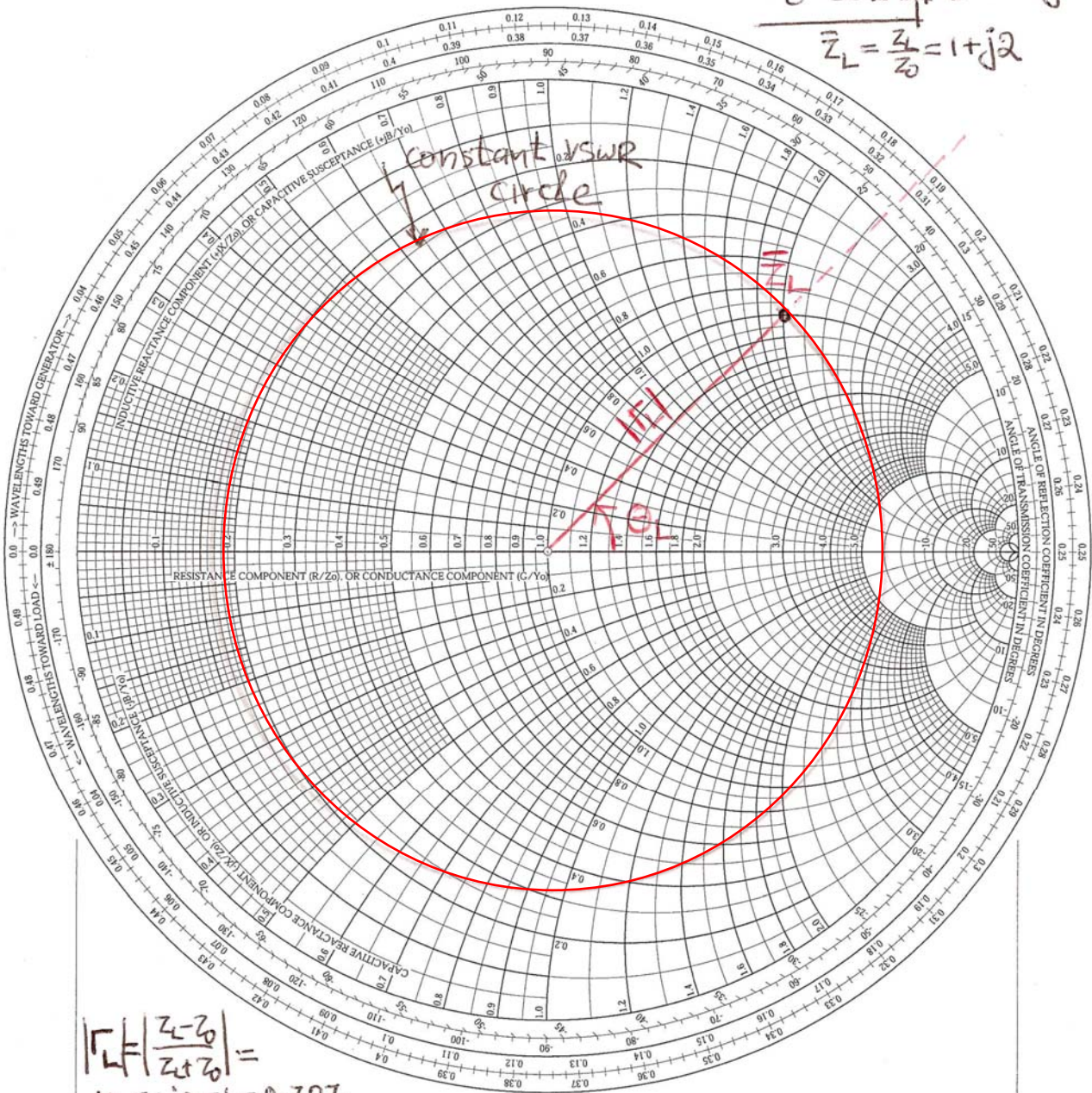


The Complete Smith Chart

Black Magic Design

$$Z_0 = 50 \Omega \quad \Gamma_L = 50 + j100$$

$$\bar{Z}_L = \frac{Z_L}{Z_0} = 1 + j2$$



$$|\Gamma_L| = \left| \frac{Z_L - Z_0}{Z_L + Z_0} \right| = \left| \frac{10.5 + j0.5}{11.5 + j100} \right| = 0.707$$

