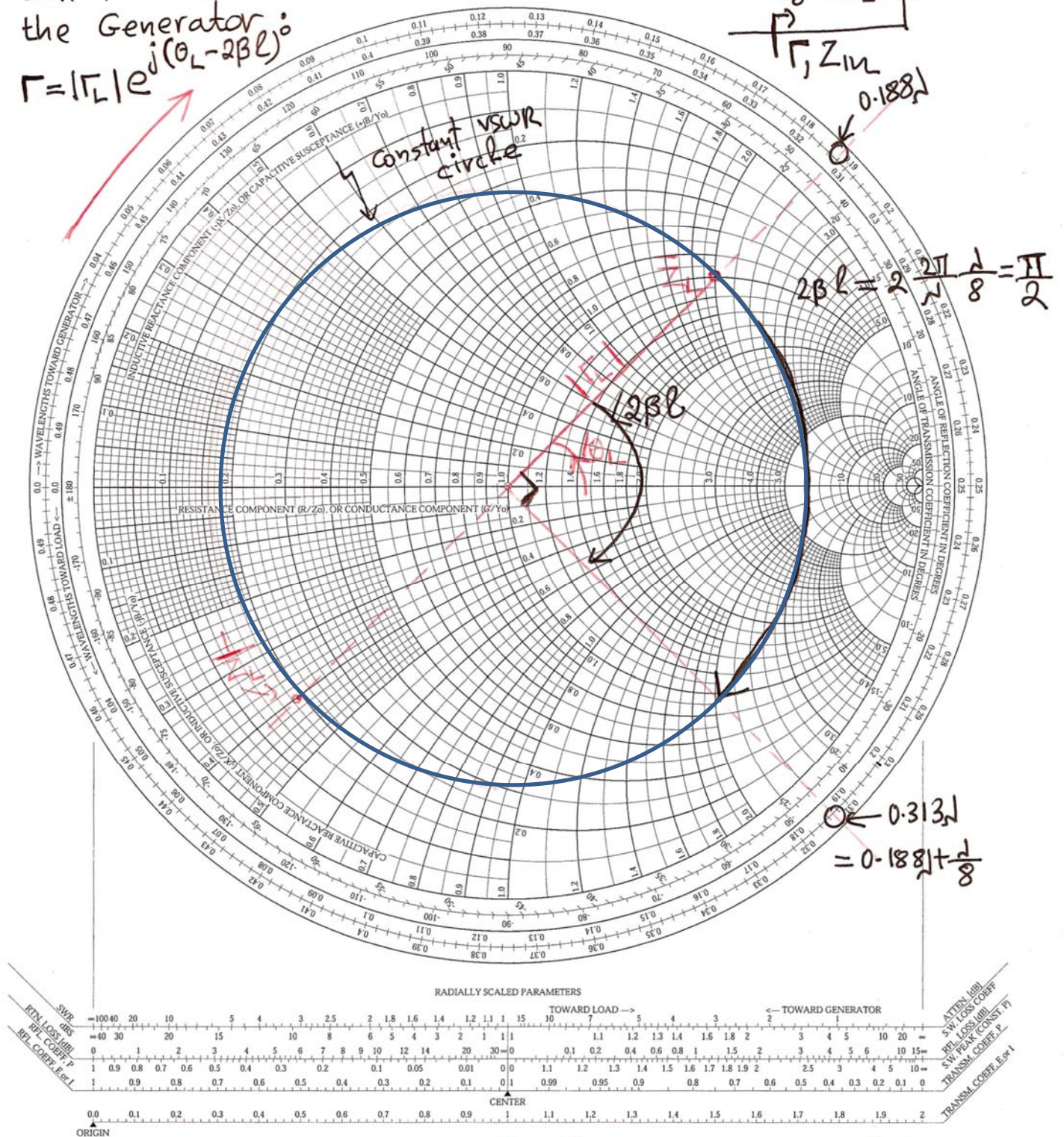
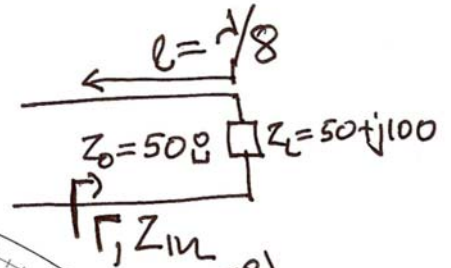


The Complete Smith Chart

Black Magic Design

Moving on the Smith chart toward the Generator:

$$\Gamma = |\Gamma_L| e^{j(\theta_L - 2\beta l)}$$



Moving $\frac{\lambda}{2}$: $2\beta l = 2 \frac{2\pi}{\lambda} \frac{\lambda}{2} = 2\pi$ (complete circle)
 $\frac{\lambda}{2} \leftrightarrow 2\pi$, $\frac{\lambda}{4} \leftrightarrow \pi$, $\frac{\lambda}{8} \leftrightarrow \frac{\pi}{2}$ etc.