

robert21's circuit output impedances

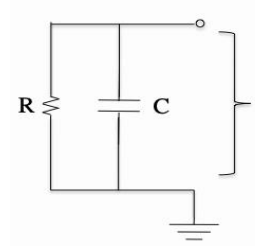
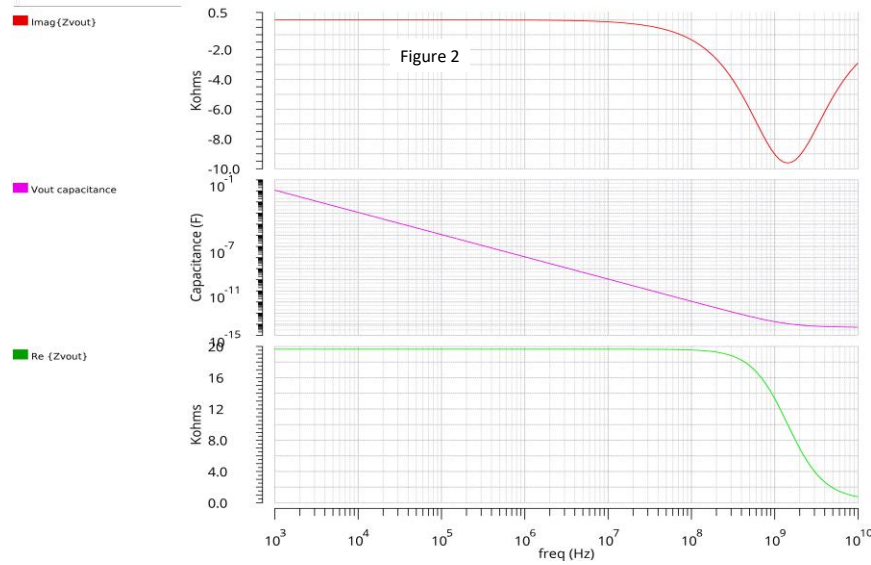


Figure 3

$$Z_{in} = R \parallel \frac{1}{j\omega C}$$

$$Z_{in} = \frac{R}{[j\omega CR + 1]} = R \frac{1 - j\omega CR}{[1 + (\omega CR)^2]}$$

$$\text{Re}\{Z_{in}\} = \frac{R}{[1 + (\omega CR)^2]} \quad \text{Im}\{Z_{in}\} = \frac{-j\omega CR^2}{[1 + (\omega CR)^2]}$$

$$\text{Capacitance}\{Z_{in}\} = \frac{[1 + (\omega CR)^2]}{\omega^2 CR^2}$$