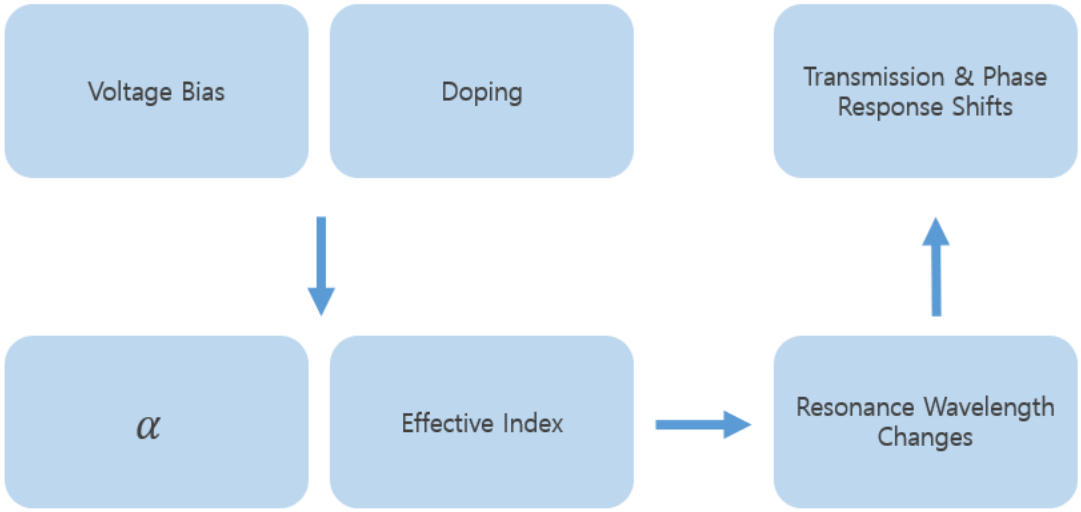
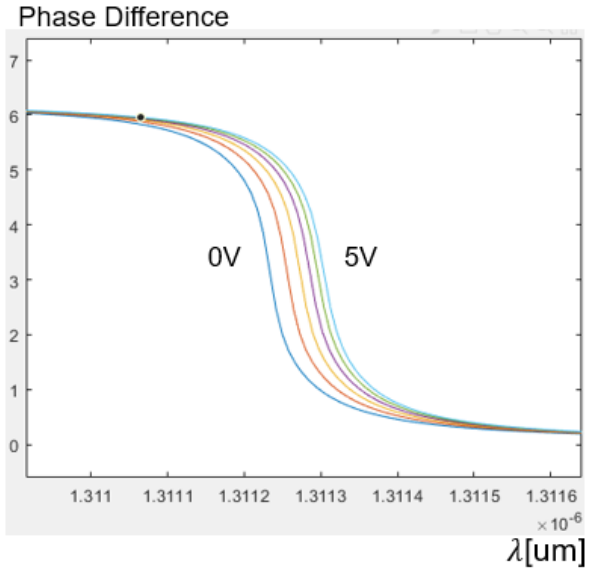
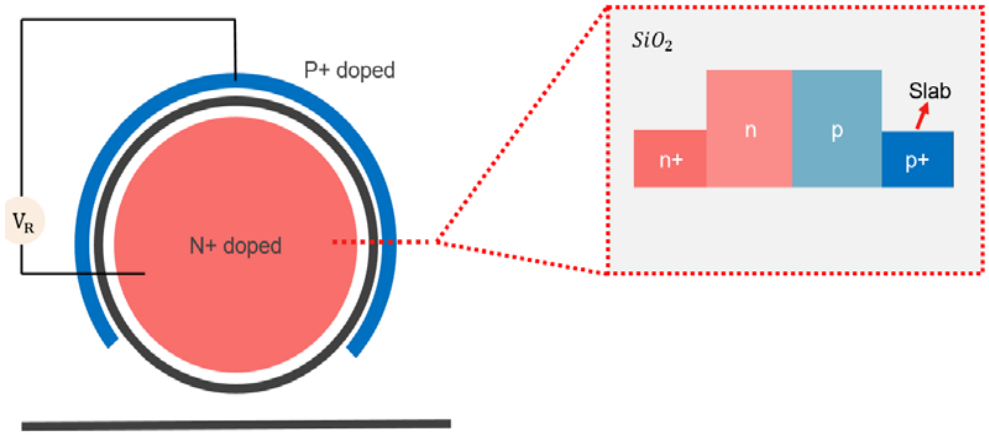
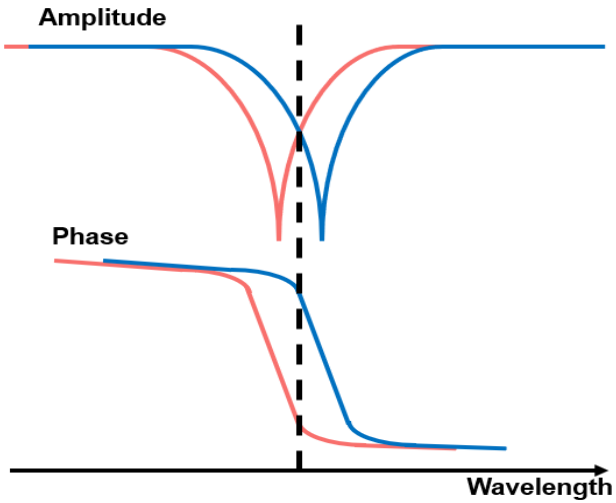
Phase Modulation of MRM









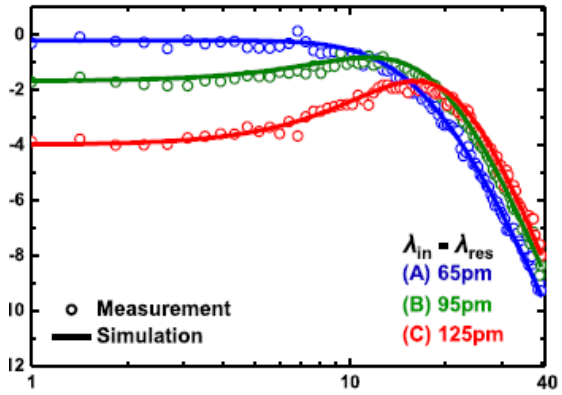
Modeling & Simulation

Coupled Mode Theory

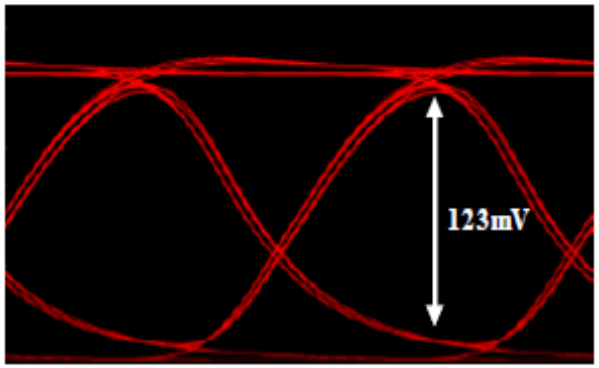
$$\frac{d}{dt}a(t) = \left(j\omega_r - \frac{1}{\tau} \right) a(t) - j\mu E_i(t)$$

$$E_t(t) = E_i(t) - j\mu a(t)$$

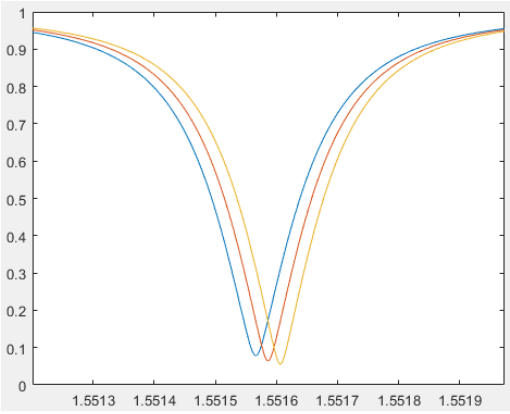
Small Signal Model



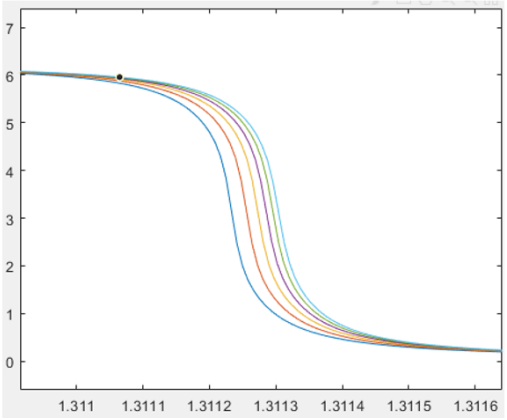
Large Signal Model



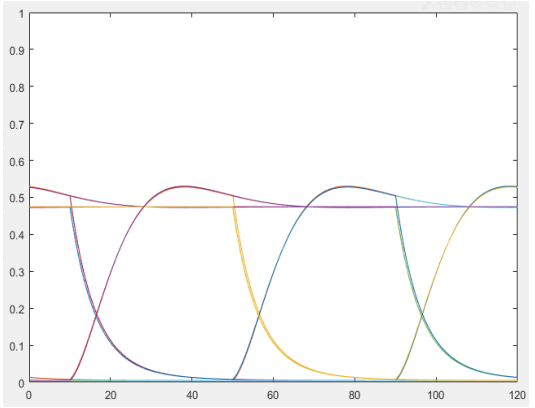
Amplitude Response



Phase Response



Transient Response



Innovative Research Group
HSCS