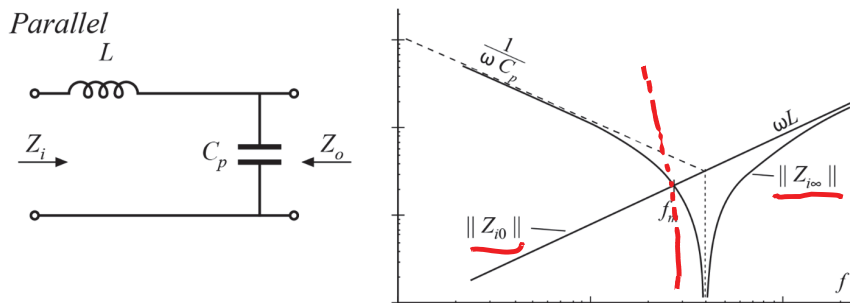
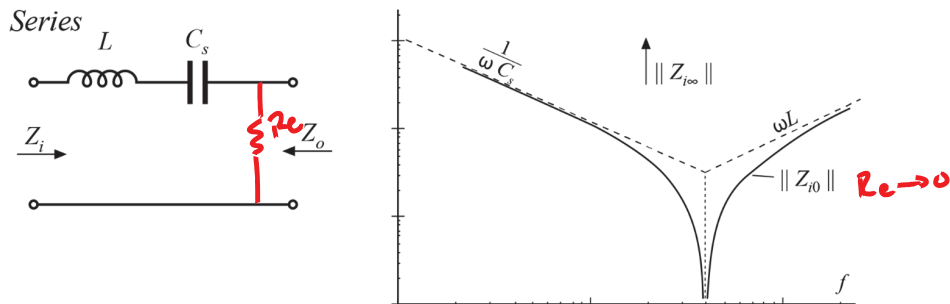
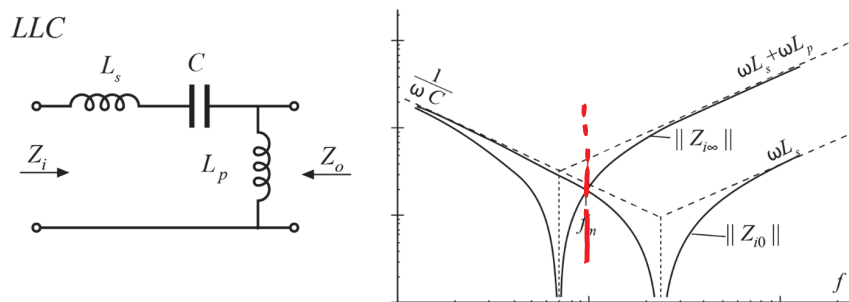
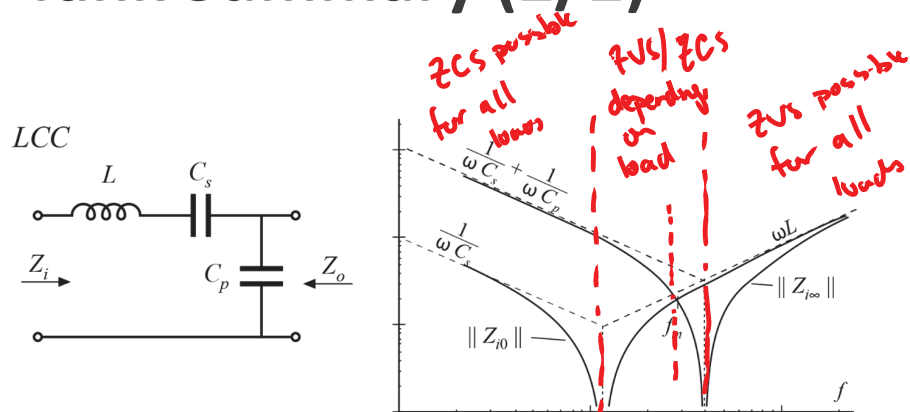


Tank Summary (1/2)



Tank Summary (2/2)



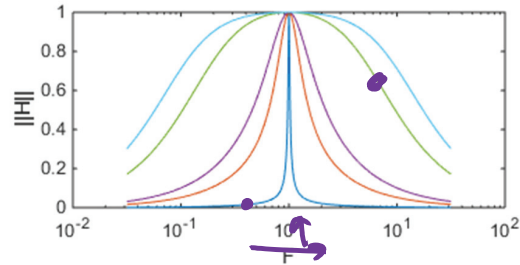
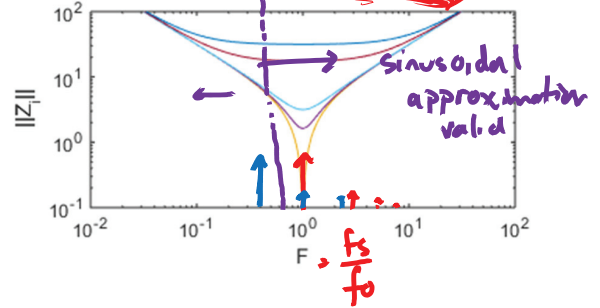
Series Resonant Tank – Subharmonic Modes

Squarewave voltage

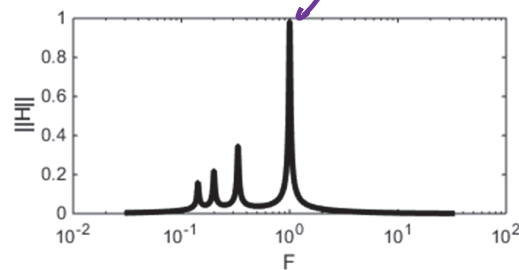
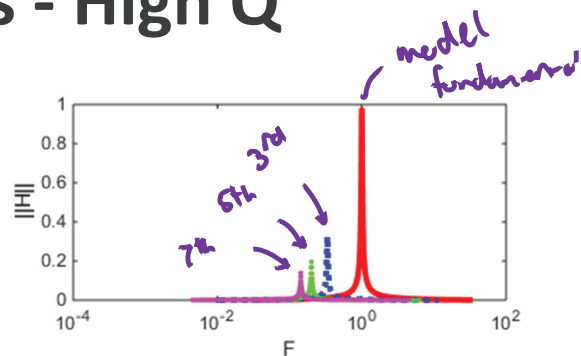
$$b_n = \frac{4}{n\pi}, \quad n = 2k+1, \quad k \in \mathbb{Z}^+$$

Sinusoidal Approximation accuracy degrades if

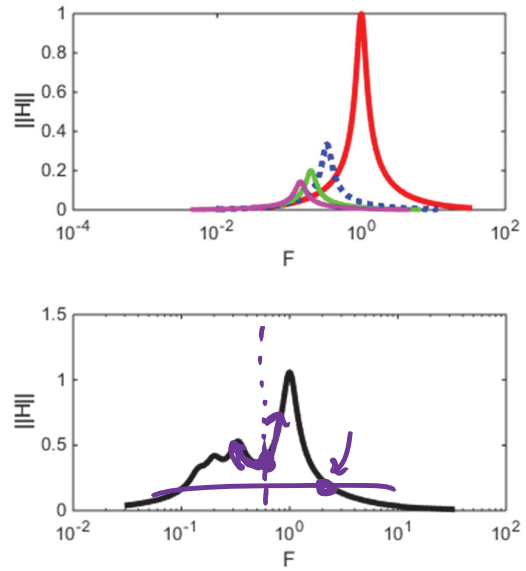
- (1) Q decreases
- (2) if F changed so that a harmonic has $\frac{f_n}{f_0} \approx 1$



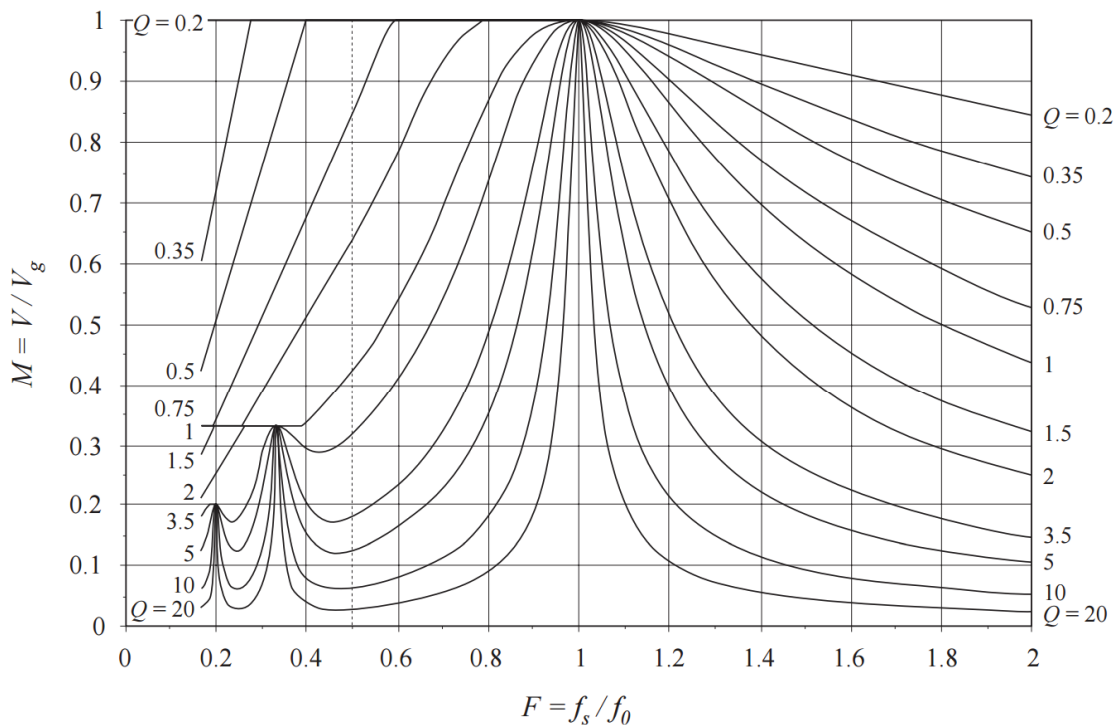
Subharmonic Modes - High Q



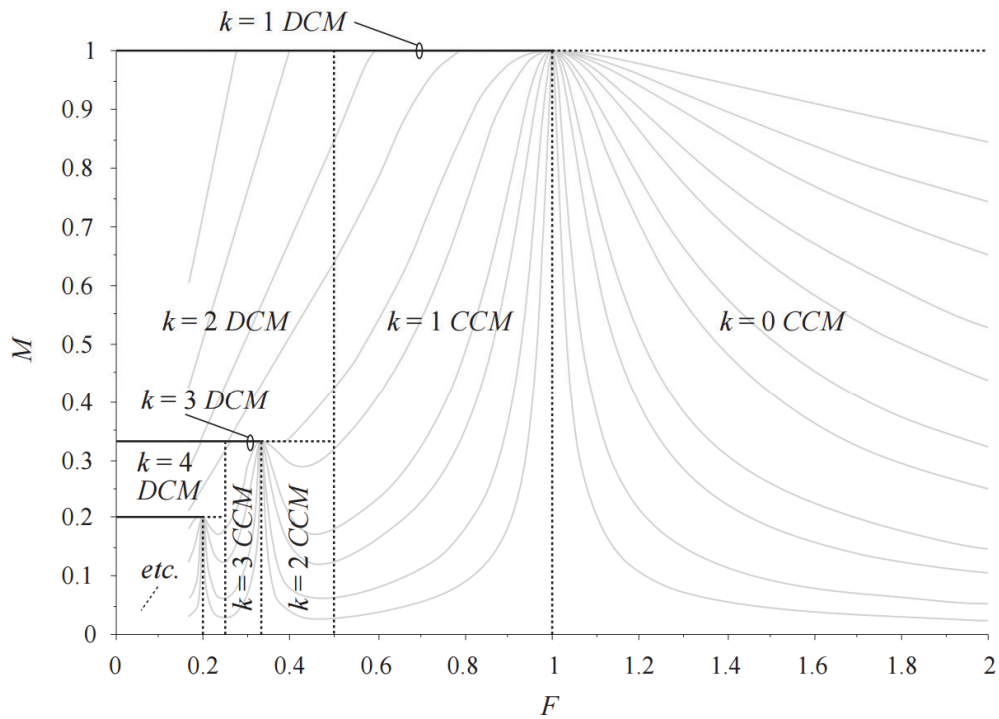
Subharmonic Modes – Low Q



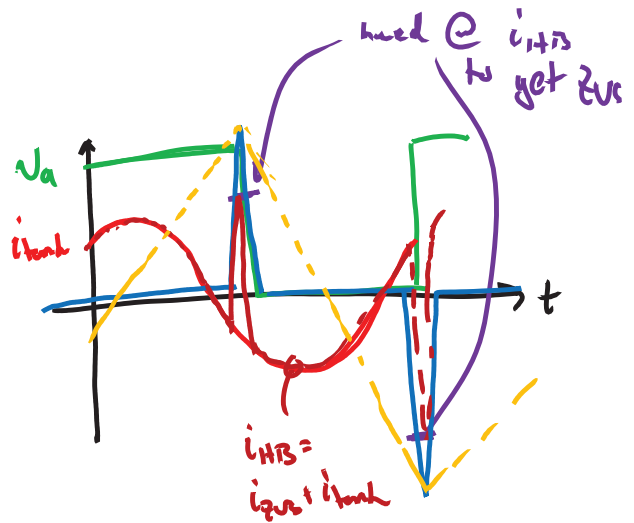
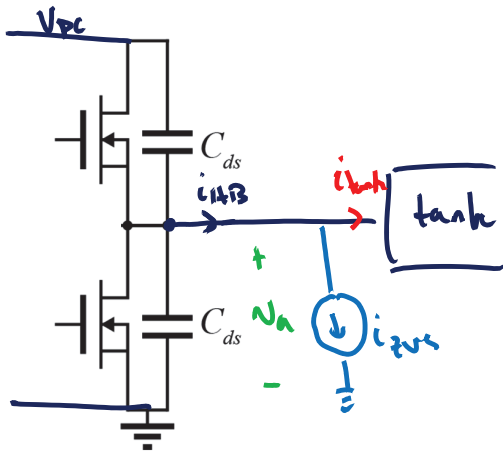
SRC Control Plane



SRC Mode Boundaries



ZVS Assist Circuits



ZVS Tank Examples

