Resonance

EGR

November 16, 2020

Tacoma Bridge

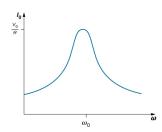
Features

Tacoma bridge and Swings....

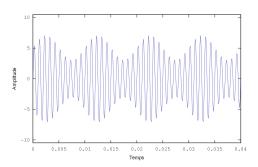
- Tacoma Bridge
- Tacoma Bridge eng

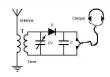
Formules

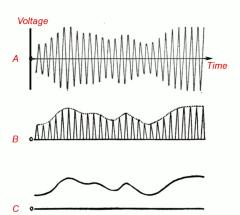
$$Z_C = 1/i\omega C$$
 $Z_L = i\omega L$
Circuit LC parallele : $Z = Z_L Z_C/(Z_L + Z_C)$
 $Z = L/C/((1 - w^2 LC)/iwC))$
 $Z = iwL/(1 - w^2 LC)$
 $\omega_{resonance} = 1/\sqrt{LC}$
 $2\pi f = \omega$

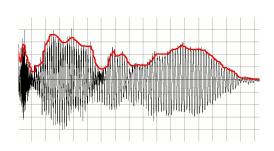


• Rappel: AM









\bullet $\lambda = f/c$

