Phys 2120-4 10/31/12

Note Title 10/31/2012

W= 247f Circuits VP = Jp Xc Vp= Ic XL Assmut C

W6 = Mech, analogy.

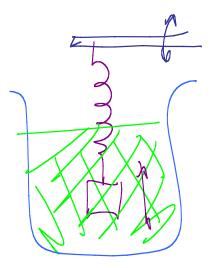
Curidis), Voltages,

Phases

Christ oscillates

Some for all elements

I(t) = Ip sin lut)

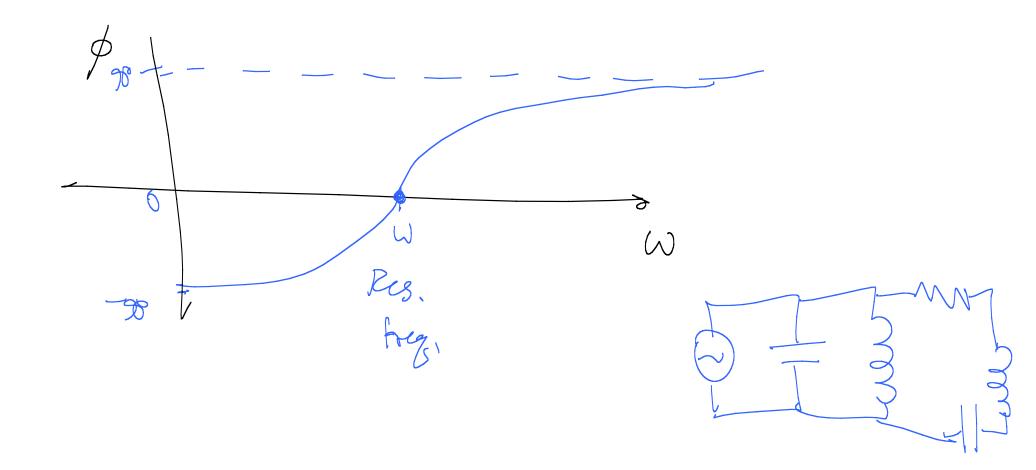


Irms = II In the inductor, V leads
the comment In the capacitor, I leads V V 1073 I

er wor PIL gen = Atpri (JoX_- JpX0)2 wt (X, -X)VP NR2+ (X2-Xc)2

Spélver Cases $X_1 = X_2$ Then In is hygest Resmance W

= Imped mce



Energy loss (in R) $P = I^{2}R \quad Instantaneously.$ $P = V_{R} T \qquad V_{R_{p}} = V_{p} cos \phi$ $= V_{p} cos \phi \left(wt + \phi\right) T_{p} s m^{2} \omega t$