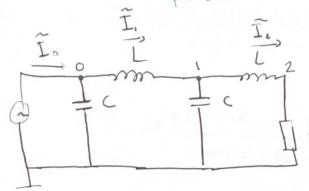
Nasser Alrasb:

Homeworklo

[1]



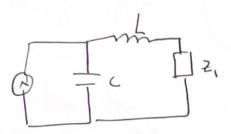
if w=L=C= EL=1

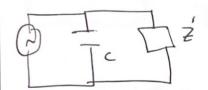
$$Z_{i} = \frac{1+j}{1+j-1} = \frac{1+j}{j} \left(\frac{j}{j}\right) = \frac{j-1}{-1} = \left(\frac{1-j-2}{j}\right)$$

$$Z_{0} = \frac{Z_{L} + 2jwL - w^{2}LCZ_{L} - jw^{3}L^{2}c}{2jwcZ_{L} - 3w^{2}Lc - jw^{3}L^{2}Z_{L} + w^{4}L^{2}c^{2} + 1}$$

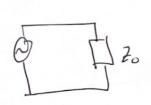
$$Z_{0} = \frac{1+2j-1-j}{2j-3-j+1+1} = \frac{j}{j-1} \left(\frac{j+1}{j+1} \right) = \frac{-1+j}{-1-1} = \frac{1-j}{2} = Z_{0}$$

- An alternative way to find to which we will use in parts-s





Z'= jw(+ Z1



Zo = jwc (jwc+z1+1)

Zo = jwc (jwc+z1+1)

jwc+z1

Sameas Zi, butswapped Zi for Zi