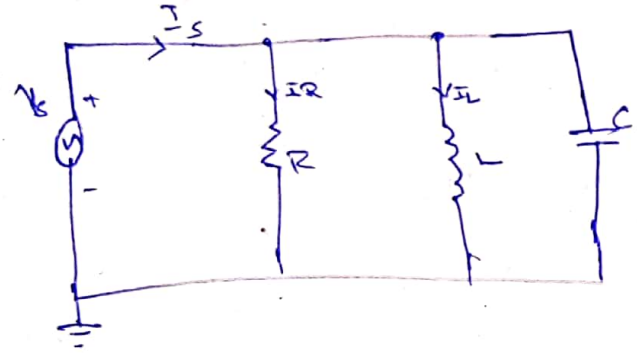
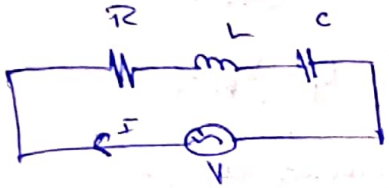
Shashank
4AL18EC048

Parallel RLC & Series RLC circuit:

parallel RLC CKT:



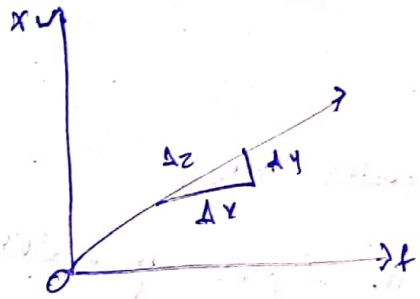
series RLC CKT:



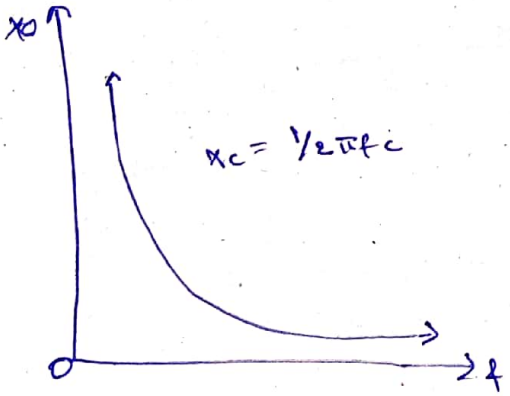
network theory:

- formation of tie-set & cut-set matrix & its applⁿ in KVL & KCL
- online open source ckt simulation - series RLC, parallel RLC, RL & RC series ckt frequency response.

→ Inductive Reactance against frequency



→ capacitive reactance against frequency.



⇒ conductance, admittance & the susceptance.

* Admittance (Y) :-

$$Y = 1/Z\ (S)$$

* conductance (G) :

$$G = 1/R\ (S)$$

* susceptance (B) :-

$$B_L = 1/X_L\ (S)$$

$$B_C = 1/X_C\ (S)$$

Serial ckt :

Voltage (V)
Resistance R
Reactance (X)
Impedance (Z)

parallel ckt

current (I)
conductance (G)
susceptance (B)
Admittance (Y)

* make interference of the response of the ckt for the → change in frequency
→ change in parameter value (R, L, C)

Python →

project excellin on building geocoder web.

→ student project – HOW the o/p in types geocoder.

→ AUTO types geocoder part 1

→ Solution part 2