

Zb  $\overline{\infty}$ charge conservation Energy · V 23 ZaZb ZaZc Za+ Zz+ Zc Zt 2,2c IT 6 T conversion. 2a+2b+2c

## T-lo 11 Conversion

T matwork imbedances are 2, , 22 and 23.

$$\frac{Z_{A}}{Z_{A}} = \frac{Z_{1}Z_{2} + Z_{2}Z_{3} + Z_{1}Z_{3}}{Z_{2}}$$

$$\frac{Z_{1}Z_{2} + Z_{2}Z_{3} + Z_{1}Z_{3}}{Z_{2}Z_{3} + Z_{1}Z_{3}}$$

$$\frac{Z_{2}Z_{3}}{Z_{3}Z_{3}}$$

$$\frac{Z_{3}Z_{2}}{Z_{3}Z_{3}}$$

$$\frac{Z_{4}Z_{2} + Z_{2}Z_{3} + Z_{1}Z_{3}}{Z_{3}Z_{3}}$$

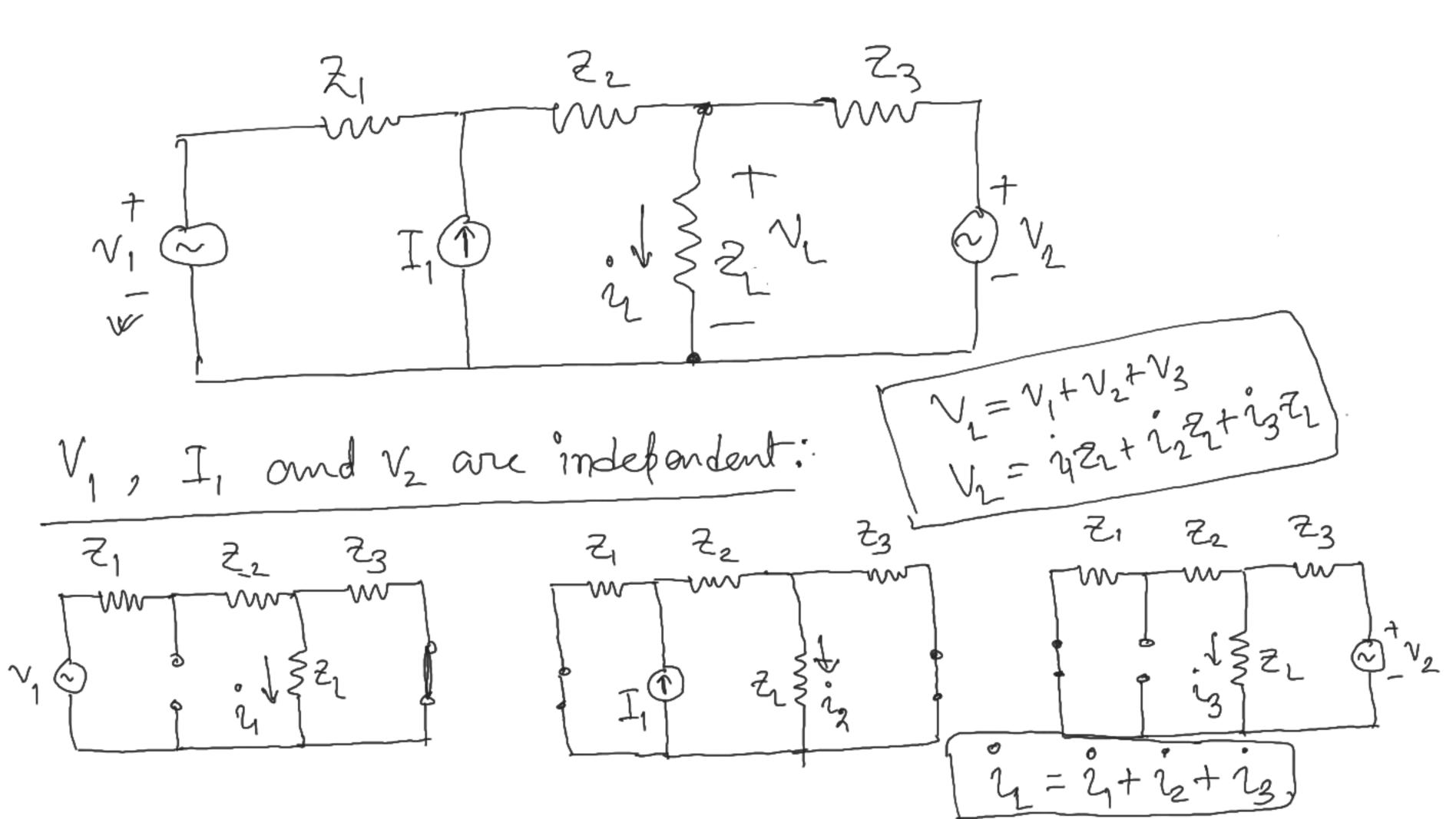
$$\frac{Z_{4}Z_{2} + Z_{2}Z_{3} + Z_{1}Z_{3}}{Z_{3}}$$

$$\frac{Z_{5}Z_{2} + Z_{2}Z_{3} + Z_{1}Z_{3}}{Z_{3}}$$

 $Z_1$ 

2. Superposition Theorem

Statement: If a network of linear elements Contains several indépendent energy sources, The total response is the sum of all the responses if each independent source acted separately and all other sources were replaced by their internal impedences. I - V relation in linear. Linear element:  $\frac{1}{1} \frac{1}{\sqrt{3}} \frac$ 



independent Nottage source

Ac independent converent source De indépendent source. Current eurrent oured is a constant Nolfage dépendent current source Voltage dependent voltage source. beyond

