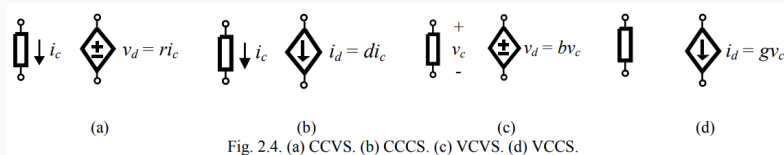


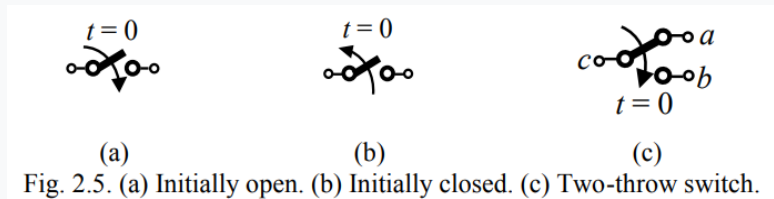
Ch1-5

• Chapter 1-2

• Independent source



• Switches

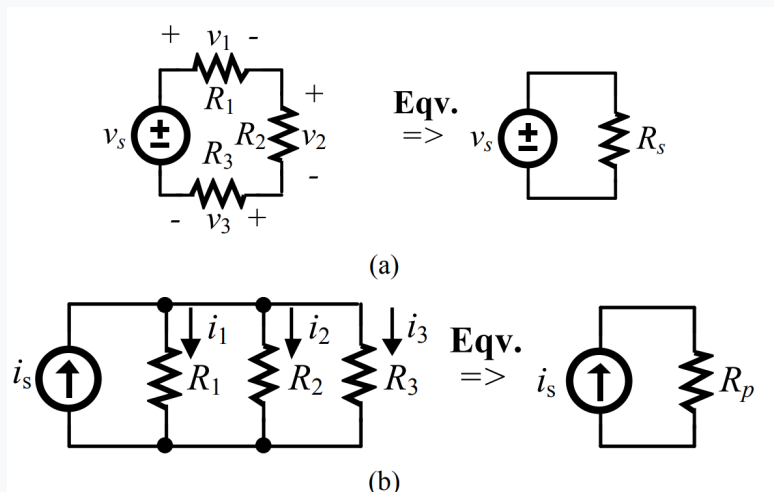


• Chapter 3

• Kirchhoff's Laws

- KCL
- KVL

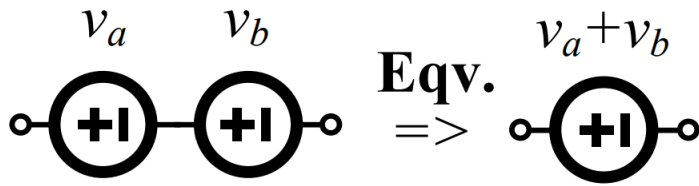
• Voltage Divider and Current Divider



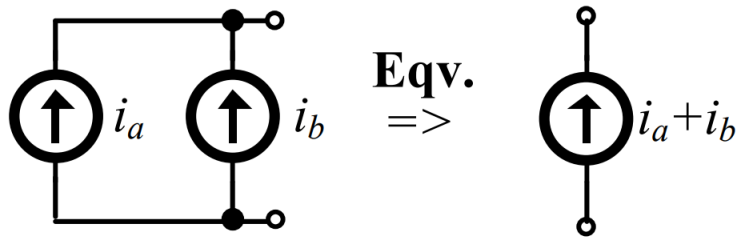
• Series Resistor and Parallel Resistor

• Series Voltage Source and Parallel Current Source

-



(a)

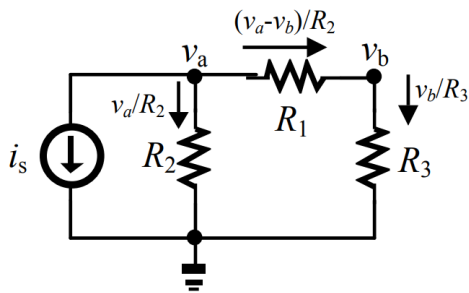


(b)

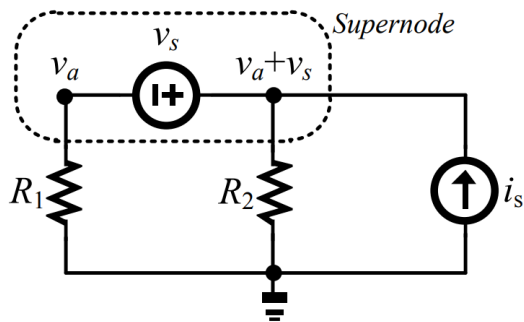
- Chapter 4

- Node Voltage Analysis(KCL)(Q1)

-



(a)

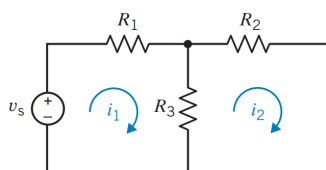


(b)

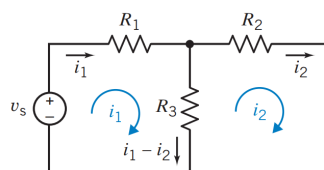
Fig. 4.1. (a) Node voltage analysis. (b) Supernode.

- Mesh Current Analysis(KVL)

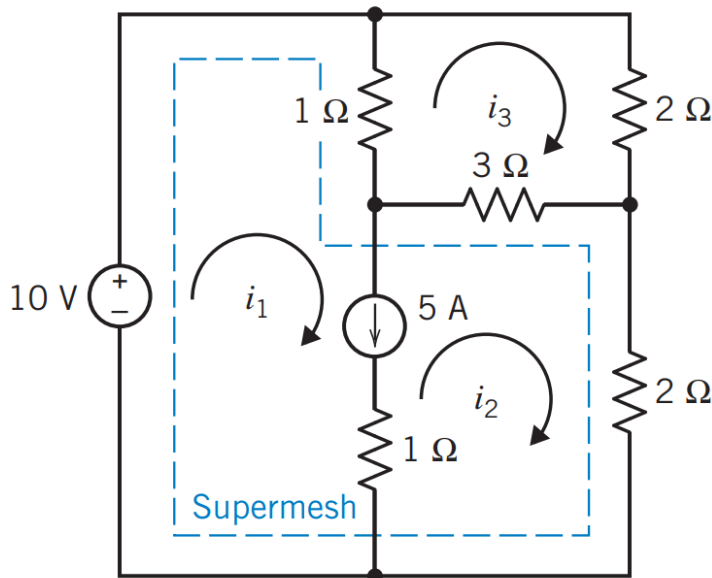
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(a)



(b)



- Compare NVA & MCA
- Chapter 5
- Source transformation
-

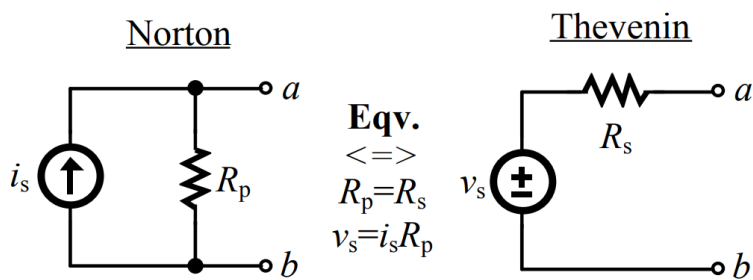
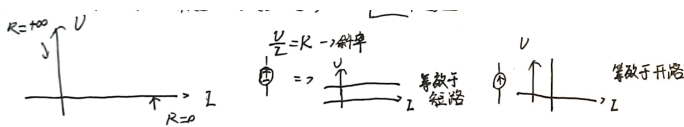


Fig. 5.1. Source transformation.

- Superposition(Q2)——留一个dependent source, V-short circuit; I- open circuit



- Thevenin's Theorem and Norton's Equivalent Circuit(Q3)
-

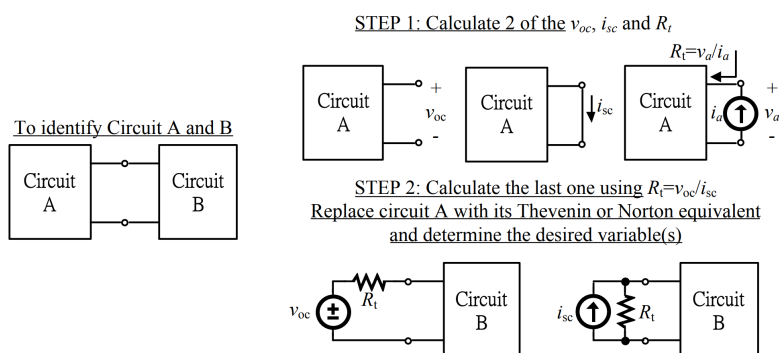


Fig. 5.2. Thevenin theorem.

- Maximum Power Transfer

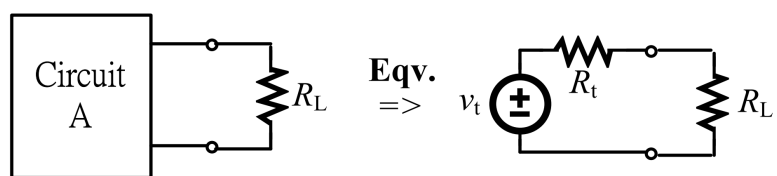


Fig. 5.3. Maximum power transfer.

$$p_{\max} = \frac{v_s^2 R_t}{(2R_t)^2} = \frac{v_s^2}{4R_t}$$

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