

1. Circuit basics:

Voltage sign convention:

$$V_{ab} = V_a - V_b$$

Ohm's law:

$$v = IR$$

$$I = Gv$$

$$G = \frac{1}{R}$$

Power:

$$P = \frac{dw}{dt} \quad P = vI \quad P = \frac{v^2}{R} \quad P = I^2 R$$

Resistors – Series:

$$R_{total} = R_1 + R_2 + \dots + R_n$$

Resistors - Parallel:

$$R_{total} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \dots + \frac{1}{R_n}}$$

Voltage Division:

$$V_{out} = V_{in} \cdot \frac{R_2}{R_1 + R_2}$$

Current Division:

$$I_{out} = I_{in} \cdot \frac{R_2}{R_1 + R_2}$$

2. Kirchhoff's Law:

KCL:

$$\sum_{k=1}^n I_k = 0$$

KVL:

$$\sum_{k=1}^n V_k = 0$$

3. Circuit/network theorems:

Maximum Power Transfer:

$$\text{Occurs when: } \frac{dP}{dR_L} = 0 \quad \frac{d^2 P}{dR_L^2} < 0$$

$$P_{max} = \left(\frac{v_s}{R_{TH} + R_L} \right)^2 R_L$$

$$P_{max} = \frac{v_s^2}{4R_L}$$

4. Inductors and Capacitors:

Capacitance:

$$C = \frac{Q}{V}$$

$$C = \epsilon_r \epsilon_0 \frac{A}{d}$$

Capacitors – Series:

$$C_{total} = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \dots + \frac{1}{C_n}}$$

Capacitors – Parallel:

$$C_{total} = C_1 + C_2 + \dots + C_n$$

Capacitors - Instantaneous voltage:

$$v_c(t) = \frac{1}{C} \int_{t_0}^t i(t) dt$$

Capacitors - Instantaneous current:

$$i(t) = C \frac{dv_c(t)}{dt}$$

Capacitors - Instantaneous power:

$$p(t) = v_c(t) \cdot C \cdot \frac{dv_c(t)}{dt}$$

Energy stored in capacitor:

$$w_c(t) = \frac{1}{2} C v^2(t)$$

Inductors – Series:

$$L_{total} = L_1 + L_2 + \dots + L_n$$

Inductors - Parallel:

$$L_{total} = \frac{1}{\frac{1}{L_1} + \frac{1}{L_2} + \dots + \frac{1}{L_n}}$$

Capacitors - Induced voltage:

$$v_L = L \frac{di}{dt}$$

Inductors - Instantaneous current:

$$i(t) = \frac{1}{L} \int_{t_0}^t v dt + i(t_0)$$

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Sabine Zange



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