

Study List for Quiz #1:

- Ohm's Law
- Series and parallel combinations of resistors and equivalent resistances.
- Power dissipation by a resistor.
- Kirchhoff's voltage (loop) law and current junction (node) law.
- Voltage divider (with a load).
- Thévenin's equivalent circuit theorem. (Reducing real voltage source/resistor networks to their Thévenin equivalent circuits.)

Equation List: [units in square brackets]

$$V=IR \text{ [1 V=1 A}\cdot\Omega] \quad P=IV \text{ [1 W=1 A}\cdot\text{V]}$$

$$R_s=R_1+R_2+\dots \quad \frac{1}{R_p}=\frac{1}{R_1}+\frac{1}{R_2}+\dots$$