

## Ohm's Law

**Power (P)**  
The total work performed by a current



**Voltage (V)**  
Electrical force or pressure

**Current (I)**  
The number of electrons passing in a single point

**Resistance (R)**  
Resistance to the flow of current

## Basic Units

Quantity	Unit
Capacitance	F Farad
Charge	C Coulomb
Current	A Ampere
Energy	J Joule
Force	N Newton
Frequency	Hz Hertz
Inductance	H Henry
Magnetic Flux	Wb Weber
Potential	V Volt
Power	W Watt
Resistance	Ω Ohm

## Kirchhoff's Laws

### Closed Loop Rule

The directed sum of the electrical potential differences (voltage) around any closed circuit is zero.

$$\sum \Delta V_{\text{closed loop}} = 0$$

$$V_{AB} + V_{BC} + V_{CD} + V_{DA} = 0$$



### Junction Rule

The sum of currents entering the junction are then equal to the sum of currents leaving.

$$\sum I_{in} = \sum I_{out}$$

$$I_1 = I_2 + I_3$$



## Resistor Network

### Series

$$R_T = R_1 + R_2 + R_3$$



### Parallel

$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$



## Capacitor Network

### Series

$$\frac{1}{C_T} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$



### Parallel

$$C_T = C_1 + C_2 + C_3$$



## Unit Prefixes

Tera-	T	$\times 10^{12}$	Milli-	m	$\times 10^{-3}$
Giga-	G	$\times 10^9$	Micro-	$\mu$	$\times 10^{-6}$
Mega-	M	$\times 10^6$	Nano-	n	$\times 10^{-9}$
Kilo-	K	$\times 10^3$	Pico-	p	$\times 10^{-12}$
Hecto-	H	$\times 10^2$			
Deka-	Da	$\times 10^1$			
(base)	-	$\times 10^0$			
Deci-	d	$\times 10^{-1}$			
Centi-	c	$\times 10^{-2}$			

examples:  
 25  $\mu$ A =  $25 \times 10^{-6}$  A = 0.000025 A  
 4.7M $\Omega$  =  $4.7 \times 10^6 \Omega$  = 4,700,000  $\Omega$

## Alternating Current



$$\text{Average AC Voltage} = 0.637 \times \text{Peak} = 0.9 \times \text{RMS}$$

$$\text{RMS AC Voltage} = 0.707 \times \text{Peak} = 1.11 \times \text{Average}$$

$$\text{Peak AC Voltage} = 1.414 \times \text{RMS} = 1.57 \times \text{Average}$$

# Basic Digital Electronics Theory Study Guide

**Ying-Ying Zheng**



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