

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

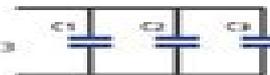
Series

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



Parallel

$$C_T = C_1 + C_2 + C_3$$



Unit Prefixes

Tera-	T	= 10 ¹²	Milli-	m	= 10 ⁻³
Giga-	G	= 10 ⁹	Micro-	μ	= 10 ⁻⁶
Mega-	M	= 10 ⁶	Nano-	n	= 10 ⁻⁹
Kilo-	K	= 10 ³	Pico-	p	= 10 ⁻¹²
Hecto-	H	= 10 ²			
Deka-	Da	= 10 ¹			
(base)	-	= 10 ⁰			
Deci-	d	= 10 ⁻¹			
Centi-	c	= 10 ⁻²			

examples:
 25 μA = 25 × 10⁻⁶ A = 0.000025 A
 4.7MΩ = 4.7 × 10⁶ Ω = 4,700,000 Ω

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

B Lingard



Basic Digital Electronics Theory Study Guide:

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