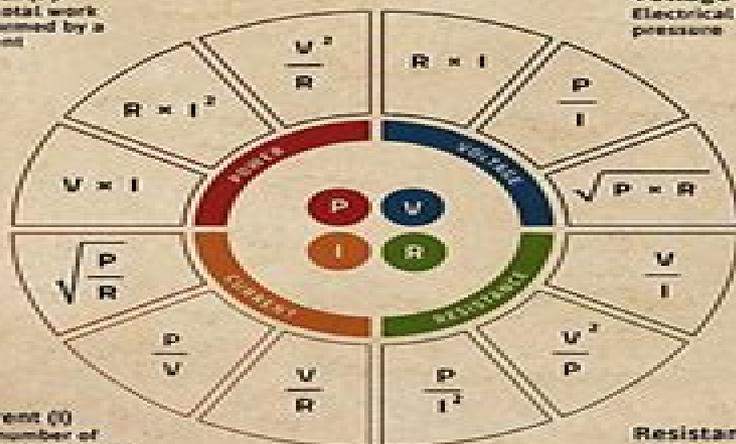


BASIC ELECTRONICS THEORY

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 thus equal to the sum of currents leaving.

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

$$I_1 = I_2 + I_3$$



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

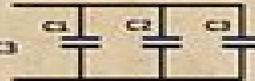
Series

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



Parallel

$$C_T = C_1 + C_2 + C_3$$

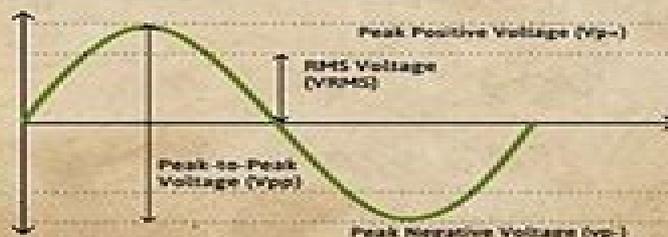


Unit Prefixes

Tera-	T	$\times 10^{12}$	Milli-	m	$\times 10^{-3}$
Giga-	G	$\times 10^9$	Micro-	μ	$\times 10^{-6}$
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:
 $25 \mu\text{A} = 25 \times 10^{-6}\text{A} = 0.000025\text{A}$
 $4.7\text{M}\Omega = 4.7 \times 10^6 \Omega = 4,700,000 \Omega$

Alternating Current



Average AC Voltage
 $= 0.637 \times \text{Peak}$
 $= 0.7 \times \text{RMS}$

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

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

Electronic Basic Knowledge Guide

Yi-Tong Ma



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Table of Contents Electronic Basic Knowledge Guide

1. Understanding the eBook Electronic Basic Knowledge Guide
 - The Rise of Digital Reading Electronic Basic Knowledge Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Electronic Basic Knowledge Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electronic Basic Knowledge Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electronic Basic Knowledge Guide
 - Personalized Recommendations
 - Electronic Basic Knowledge Guide User Reviews and Ratings

- Electronic Basic Knowledge Guide and Bestseller Lists
- 5. Accessing Electronic Basic Knowledge Guide Free and Paid eBooks
 - Electronic Basic Knowledge Guide Public Domain eBooks
 - Electronic Basic Knowledge Guide eBook Subscription Services
 - Electronic Basic Knowledge Guide Budget-Friendly Options
- 6. Navigating Electronic Basic Knowledge Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Electronic Basic Knowledge Guide Compatibility with Devices
 - Electronic Basic Knowledge Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electronic Basic Knowledge Guide
 - Highlighting and Note-Taking Electronic Basic Knowledge Guide
 - Interactive Elements Electronic Basic Knowledge Guide
- 8. Staying Engaged with Electronic Basic Knowledge Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electronic Basic Knowledge Guide
- 9. Balancing eBooks and Physical Books Electronic Basic Knowledge Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electronic Basic Knowledge Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electronic Basic Knowledge Guide
 - Setting Reading Goals Electronic Basic Knowledge Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electronic Basic Knowledge Guide
 - Fact-Checking eBook Content of Electronic Basic Knowledge Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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description 240 2 fram checksum incorrect 240 13 tpu checksum incorrect

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