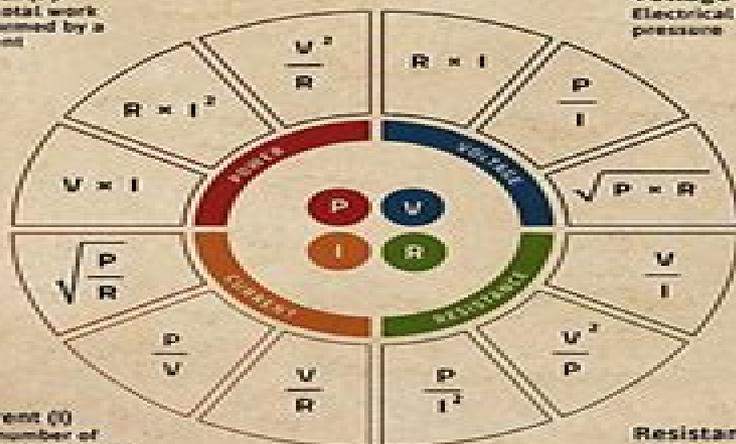


# BASIC ELECTRONICS THEORY

## 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	$\Omega$ 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

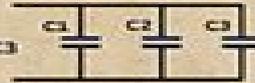
Series

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



Parallel

$$C_T = C_1 + C_2 + C_3$$

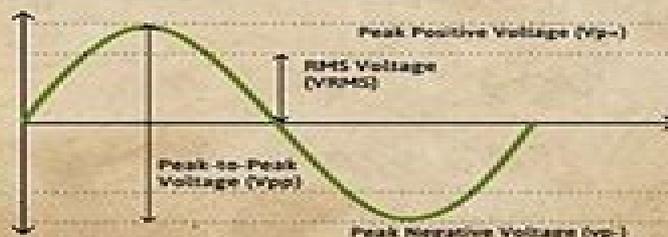


## Unit Prefixes

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

## Alternating Current



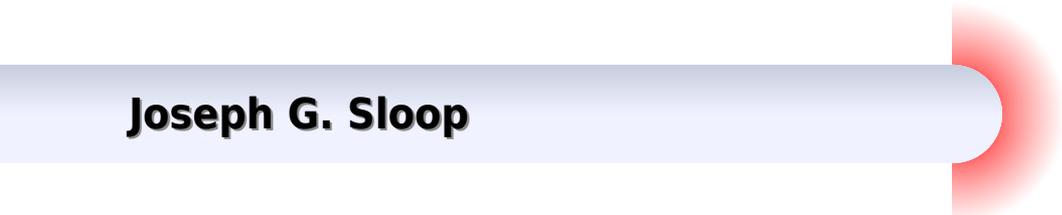
Average AC Voltage  
 $= 0.637 \times \text{Peak}$   
 $= 0.7 \times \text{RMS}$

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

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

# Basic Electronics Theory

**Joseph G. Sloop**



## **Basic Electronics Theory:**

**Basic Electronics** Harold D. Holbrook, Walter J. Seeley, 2013-10-22 Basic Electronics is an elementary text designed for basic instruction in electricity and electronics It gives emphasis on electronic emission and the vacuum tube and shows transistor circuits in parallel with electron tube circuits This book also demonstrates how the transistor merely replaces the tube with proper change of circuit constants as required Many problems are presented at the end of each chapter This book is comprised of 17 chapters and opens with an overview of electron theory followed by a discussion on resistance inductance and capacitance along with their effects on the currents flowing in circuits under constant applied voltages Resistances inductances and capacitances in series and parallel are considered The following chapters focus on impedance and factors affecting impedance electronics and electron tubes semiconductors and transistors basic electronic circuits and basic amplifier circuits Tuned circuits basic oscillator circuits and electronic power supplies are also described together with transducers antennas and modulators and demodulators This monograph will serve as background training in theory for electronic technicians and as fundamental background for students who wish to go deeper into the more advanced aspects of electronics

**Basic Electronics Theory** Delton T. Horn, 1994 With projects experiments Cover **Basic Electronics Theory--with Projects & Experiments** Delton T. Horn, 1981 *Basic Electronics* Sean Westcott, Jean Riescher Westcott, 2023-05-24 Designed for both the student and hobbyist this updated revision is an introduction to the theory and practice of electronics including advances in microcontrollers sensors and wireless communication Each chapter contains a brief lab to demonstrate the topic under discussion then moves on to use all of the knowledge mastered to build a programmable robot New material on using Raspberry Pi and Python has been included The companion files include short videos of the labs soldering skills and code samples for programming the robot Covering both the theory and also its practical applications this text leads the reader through the basic scientific concepts underlying electronics building basic circuits learning the roles of the components the application of digital theory and the possibilities for innovation by combining sensors motors and microcontrollers It includes appendices on mathematics for electronics a timeline of electronics innovation careers in electronics and a glossary Features Includes companion files with over twenty video tutorials on currents soldering power supply resistors decoder circuits Raspberry Pi animations of featured circuits and more files available from the publisher for downloading Features chapters on using Raspberry Pi and Python in electronic projects and a chapter on Cybersecurity and the Internet of Things IoT for Electronic Projects Leads the reader through an introductory understanding of electronics with simple labs and then progresses to the construction of a microcontroller driven robot using opensource software and hardware **Basic Electronics** J. A. Sam Wilson, Milton Kaufman, 1977

**Basic Electronics Theory--with Projects and Experiments** Delton T. Horn, 1989 [Basic Electronics Explained: A Beginner's Guide to Circuits and Components](#) SREEKUMAR V T, 2025-06-05 Are you curious about how electronic devices

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The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,1984

*Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education,1978

*Basic Electronics Course* Norman H. Crowhurst,1987 BASIC ELECTRONICS COURSE 2ND EDITION defines every aspect of electrical behavior and state of the art electronics Highlighted are the essential basics of electronics theory and practice properties of resistance electron flow power calculations and more Questions at the conclusion of each chapter prepare you for the real test should you choose to enter a specialized electronics field

Basic Electronics Harold D. Holbrook,Walter James Seeley,1971

*Naval Training Bulletin* ,1955

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United States Navy Occupational Handbook United States. Bureau of Naval Personnel,1968

**Hobby Project Manual** International Rectifier (Firm),1969

## Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Basic Electronics Theory**

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web may 22 2022 ingredients 1 cup whole milk 1 cup heavy cream 1 4 cup of sweetened condensed milk 1 tbsp of pure liquid vanilla extract 1 4 cup of granulated sugar 1 4 cup of powdered sugar 1 pinch of salt

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web this usually does the trick if you need to make this dairy free you can use unsweetened oat milk instead of milk unsweetened coconut cream instead of heavy cream and vegan cream cheese instead of regular cream cheese recipe slightly adapted from ninja creami

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web aug 27 2023 if you have a ninja creami or are thinking about getting one this vanilla ice cream is a great place to start read through the recipe below and you ll see how simple it is just 5 ingredients and about 5 minutes of your time will give you a pretty great ice cream

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web this is the ninja plain vanilla ice cream recipe that is simply delicious eaten plain or with your favorite topping you can also use it as a base for creating your own unique recipes

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web in a large microwave safe bowl microwave the cream cheese for 10 seconds add the sugar and vanilla and combine until the mixture is smooth and creamy slowly mix in the heavy cream and milk until fully combined and sugar is dissolved pour base into an empty creami pint

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web in a small mixing bowl or large liquid measuring cup combine instant pudding mix and milk whisk together until pudding mix dissolves add heavy cream and vanilla extract whisking just to combine transfer mixture to a ninja creami pint being careful not to exceed the max fill line and close the lid

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