BASIC ELECTRICAL THEORY STUDY GUIDE

			TIES OF ELECTR			
		electricity are interrelated; A ci				
• T	They are affected by properties of circuits and components (Resistance, Capacitance and Inductance)					
	and the second	VOLTAGE	E	VOLTS	· · · · · ·	
· EI	ectrical pressure,	or electrical force which 'pushe	s' current through a c	ircuit or component		
		CURRENT	504	AMPS	Α.	
· 12	he amount of elect	trical flow (Number of electrons	passing a point in a p	eriod of time)		
		POWER	P	WATTS	w	
- 69	Power represents how much electrical work is being done				P=I×F	
	Power is a product (multiplication) of Voltage (E) and Current (I)				$P = F^2 \div R$	
	Yower can be derived from Voltage (E) and Resistance (R), or Current (I) and Resistance (R)				$P = P \times R$	
		ASIC PROPERTIES OF				
				OWIPONENIS		
	These properties of circuits and components are <u>physical</u> properties; They are not affected by properties of electricity (Voltage, Current and Power)					
		s and Inductors have specific va				
· 190		s and Inductors have specific va	R Resistance	OHMS	C	
			K	UHMS		
* Pa		ition to current flow				
		VPACITANCE	С	FARADS	F	
• C	apacitance oppose	s change in voltage, by storing	energy in the form of	electric charge		
INDUCTANCE		L	HENRYS	н		
• to	ductance opposes	change in current, by storing e	nergy in the form of a	magnetic field		
		OPERTIES SPECIFIC TO			1	
	THUR POWER	Power consumed by the load	P. or Pers	WATES	-/ -/	
	APPARENT POWER		Pa del Parentes 1	Volt-Amps	WA DAWAI	
NOWNER	POWER FACTOR	Ratio of Prito Pri(pf = Pr+Pr)	pr	nyCa	% or Dedomal #	
		Power caused by capacitance and ind	octorios Pe del Periodos	Valt-Amps Reactive	WAR DWAR	
		REQUENCY		HERTZ	Hz	
· No		Second (CPS) of the AC sine wave;				
		REACTANCE	×	OHMS	Ω	
CAPACITIVE REACTANCE			X _c	OHIMS	0	
• Os	pposition to current	flow in an AC circuit due to capacit	ance; Kr & as frequenc	oe; K _c ⊕ as frequency ↑		
INDUCTIVE REACTANCE			*	OHMS	$X_C = \frac{1}{2\pi f C}$	
Opposition to current flow in an AC circuit due to inductance					$X_1 = 2\pi/L$	
- 505	IMPEDANCE		7	OHMS	0	
. To		ment flow in an AC circuit: Varies w	cittle formaneness (M)			
	ncludes Resistance [R], Capacitive Reactance (X _c), and Inductive Reactance (X _c)				$Z = \sqrt{\pi^2 + (X_k - X_C)}$	
			TARRANGEME	NTS		
		SERIES		PARALLEL		
. 0				Current flows through branches simultaneously		
		through components in series				
	Voltage varies across components • Current varies through individual bran					
	Open the Color of the Color		MISTAW			
. 64	edantino escholo fedicario					
	Relationship between Voltage (E), Current (I) and Resistance (R) It can be expressed using the three formulas below					
		be substituted for Resistance (and capacition and	indicative properties	
	E = I × R		= E + R		R = E + I	
	E-IAA		- E 7 R		N - E T I	

Basic Electronics Theory Study Guide

Daniel F McAuley

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