BASIC ELECTRICAL THEORY STUDY GUIDE

			OPERTIES OF			
		electricity are interrelate				
. 1	They are affected by properties of circuits and components (Resistance, Capacitance and Inductance)					
		VOLTAGE		E	VOLTS	v
· £	fectrical pressure,	or electrical force which	'pushes' current	through a c	incuit or component	
		CURRENT		7/41/5	AMPS	A
. 1	The amount of electrical flow (Number of electrons passin			point in a s	(serried of time)	
		POWER		P	WATTS	w
- 0	commercial contracts by	ow much electrical work	is button done			P=I×F
	Power is a product (multiplication) of Voltage (E) and Current (6					
	Power can be derived from Voltage (E) and Resistance (R), or Current (I) and Res					$P = E^2 + R$ $P = I^2 \times R$
		ASIC PROPERTIES				
					OMPONENTS	
		circuits and components			Carrier and	
		ed by properties of electr				
. 8		s and Inductors have spe RESISTANCE	nonic values of Re		OHMS	
				R	OHMS	Ω
* B		ition to current flow				
	C	APACITANCE		C	FARADS	F
	apacitance oppose	is change in voltage, by s	storing energy in t	the form of	electric charge	
INDUCTANCE			L	HENRYS	н	
. 1	viluritance opposes	change in current, by st	oring energy in th	a fores of a	moonetic field	
		OPERTIES SPECIF				**
	THE COMME	Power contented by the load		NATHING	CORRENT (AC	-/
	THE RESERVE OF THE PARTY OF THE			Of Paramet	Valt Amos	VIA CROSAL
POWNER	POWER FACTOR	Ratio of Prito Pri(pf = Pri+Pri)	The second secon	pr	ry/a	% or Decimal #
	REACTIVE POWER	Prower caused by capacitance	and industrant P	e der Penischere	Volt-Amps Reactive	WAR (WYAR)
		REQUENCY		f	HERTZ	Hz
* N	umber of Cycles Per	Second (CPS) of the AC sine	r wave; 60 Hz in No	rth America,	50 Hz is most of the v	norld
REACTANCE				×	OHMS	Ω
CAPACITIVE REACTANCE				X _C	OHIMS	0
. 0	monsition to current	flow in an AC circuit due to	enmaritance (V. J.	as transact		$X_C = \frac{1}{2\pi f C}$
INDUCTIVE REACTANCE				N _a	OHMS	0
. 0		flow in an AC circuit due to	inductance; X, T a	a frequency		$X_k = 2\pi f L$
		MPEDANCE		Z	OHMS	Ω
	Total opposition to current flow in an AC circuit; Varies with findudes Resistance (R), Capacitive Reactance (X;), and Induct					$Z = \sqrt{R^2 + (X_k - X_C)}$
- 10	knubes Resistance (R		RCUIT ARRA		NETE	
			NCUII AKKA	INCIENTE		
		SERIES			PARALLEL	
	Current flows through components sequentially			 Current flows through branches simultaneously 		
	Current is constant through components in series			 Voltage is constant across parallel branches 		
• V	oftage varies acro-	ss components			aries through individ	ual branches
			OHM'S LA	W		
7.00	elationship betwe	en Voltage (E), Current (I	and Resistance	(R)		
· 8			The second second			
	can be expressed	using the three formulas	F DIGITORY			
• 11		using the three formulas t be substituted for Resis		cuits that I	have capacitive and	nductive properties

Basic Electronics Theory Study Guide

Chao Zhang

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