#### 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 <sub>C</sub>	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 <sub>a</sub>	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			<ul> <li>Current flows through branches simultaneously</li> </ul>		
	Current is constant through components in series			<ul> <li>Voltage is constant across parallel branches</li> </ul>		
• 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**

**Rachel S Tattersall** 

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