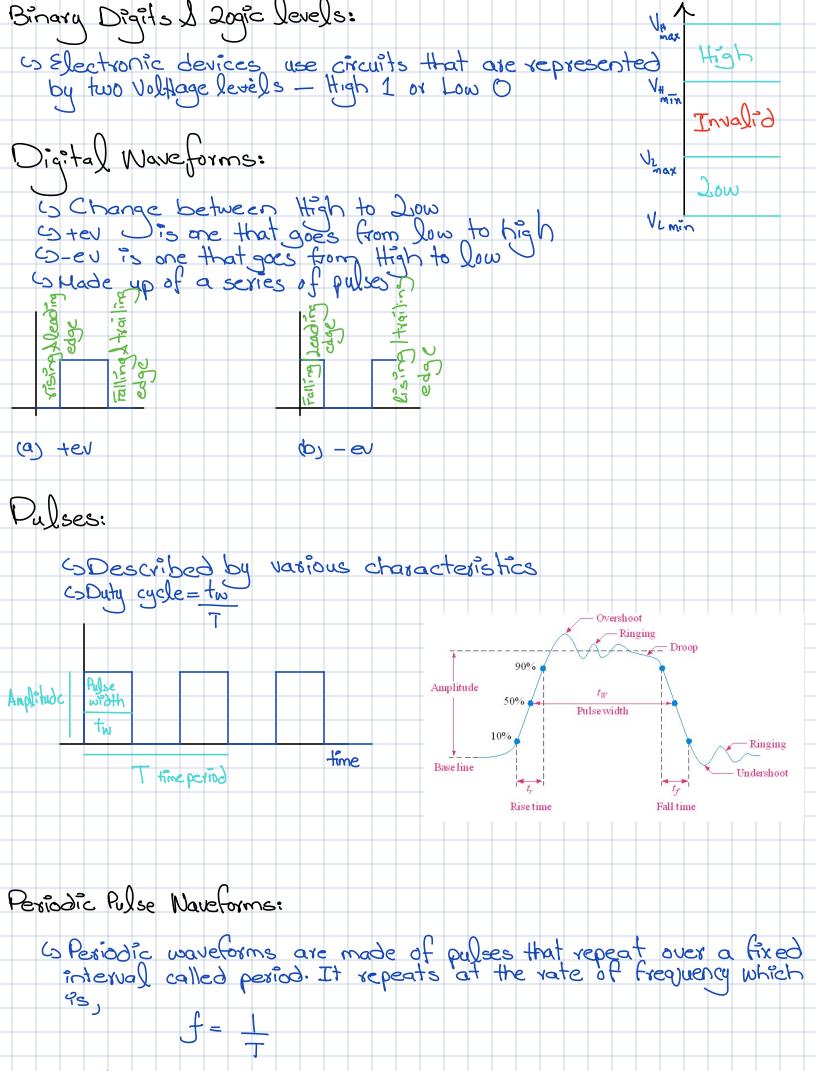
Electronic Circuits Analog Digital Cotrolves Continous colonolues Discrete values values 5 Store, process & confore prone to noise transmit more Collore power 45 More space data somme accurate 5 Dess prone to noise () Less power co Convert Analy to Digital: Co Quantization & sampling
Co Discretizes signals
signals in vertical in horizontal directions co Electronic devices use both to get best of both worlds. CD player reads digital data & converts to analog for amplification



Example	_
Couck   Couck	+
Jiming Diagrams:	Ī
	_
Co Shows relation blue two or more digital waveforms	+
S By logic analyzer	+
Clock Clock	Ť
	+
B	+
	+
Data transfer:	
	+
as Oata can be transfered by either serial or parallel transfer	+
Basic System functions:	İ
	_
as Encoding Decoding function	+
5 Data selection function	+
	+
a Counting function	
	+
45 Shift register Collised for storage	+
	t
45 Compasison function	I
	+
Co Basic arthmetic function	+
	t
Programmable Dogic:	
	+
5) like fixed functions but logic can be programmed.	+
Co Cost duse space less	+
CS PA L	İ
	+