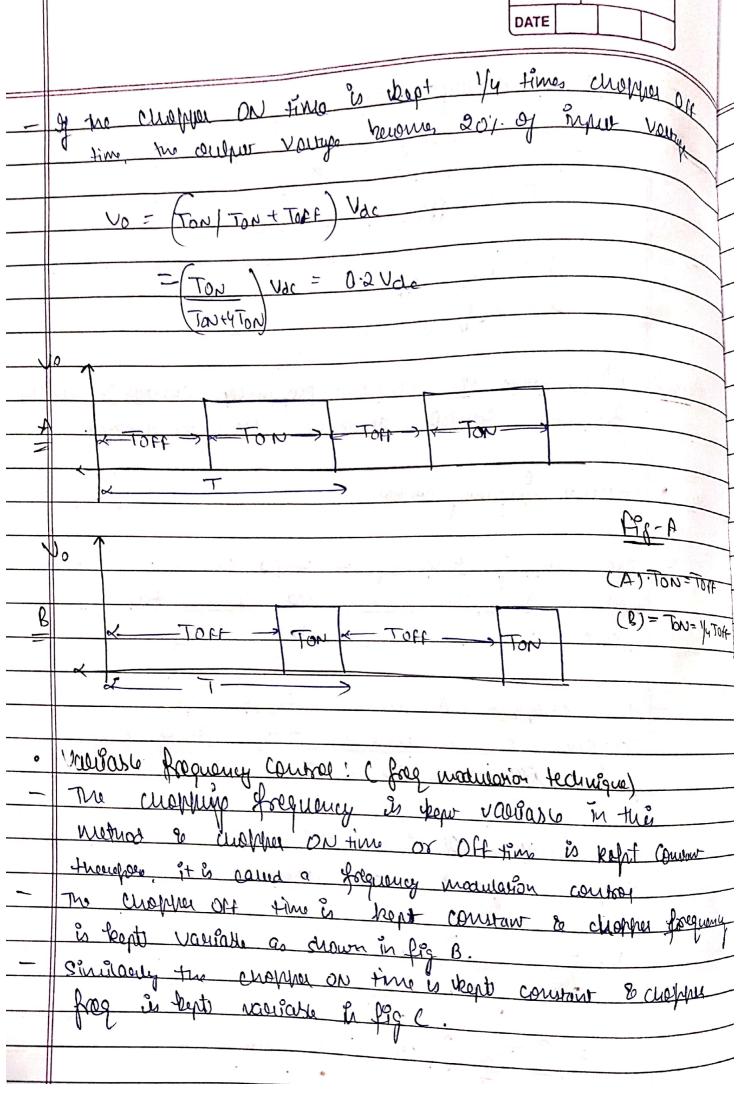
NOUSTRIAL ELECTRONIS PAGENO. ASSIGNMENT Just with the lief of ciocuit diaperon explain, the wolking of step lip otep down chapper In born the chappiers, switch connects with the load and disconnect of very fast speed or rate. House chapped output is delived from constrict de supply voltage (1) Step-up chapper It is also called Boost convertes, as it inculares the input voltrige - 7888 warking When the chapper is (on) State, the switch your is closed so arrivered fearers. House industry comme cred in reis stores energy drowing the ON freshood What the chapper is Off state, the switch party is open Enducted Current does not reduce instantaneously so it flows though the diade & load develing their off policed Due to above, voltage across to load exceeds the source voltage Vi. Have the circuit is reported as Stp-up Chapper

_	egn for avenage load voltage:
m m. 1.1	
	Vo = T VC
	Toff
. ,	A.A. O. O.
1111	= (1) / W X: Dury cycle
11.	sound the second of the second
(2)	Step-Down Chapping
	It is also known as back convenies, as it decidence
	the inpur voltage
	A CONTRACT OF THE PARTY OF THE
	+ 1
,	CH L
	- Vo A
	PD T
	derking
	Source Mortes is in on state dood voltage is equal to
	Source Voltage
1	· Marine was assessed to the same of the s
	- Francisco 400 Nindo 100 and around flows
	\mathcal{A}
1997 -1	Shout circuit by the clode House local voltage is a
(1 4	during the off feeling.
-,	
_	also to above, load culling themes
W. A. A.	and decreases during off years Home employed OC
3	voltage is ovallable at the loss is
	voltage is ovallable at the load. Hence the circuit is
	The mapping
- 1	

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_	eign of average board voltage
	Vo = Ton Vs - KV
	Ton + Tap
	X = Dung cycle
<u> </u>	
gray of	Refrançate blu constant forquency constant so variable
	(1 grand strategies Used for displier
dus.	Constant feature contas.
_	Million 1
Apd X	method therefore, it is called constant frequency
	Course.
	The chopper ON time or chopper of time is
	adjusted in this method, therefore it is called
	pulse widthe modulation coursel.
	MILLS S SOL S S
	Ouper voltage is equal to hay the input voltage
	your and the triple variable
	Vo = Ton Vac
	TON+TOFF)
	= (Ton) vdc = 0.5 vdc Ton+ Ton



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Vo	=======================================
V ₀	200
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17 17 17 17 17 17 17 17 17 17 17 17 17 1	
TOFF X ICW >	
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LIQUO AD CLARA CIOCOLI OS CONTROLES SECONOS TE	do de
- The design of fixer crowin is difficult because the stange of dropping frequency is very coope in our courses output voltage	des to -

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	3, 32 > chapping (clockorie switches)
	0,02 - diode (fledbeck aroda)
	arsuming Si- Eo Si oprevales Smutaneously
	Mitwaneously
	Ma Car MaOr, Maor
	when they also on the load chown To inchange, with
	The sur of desire desired unon the book para so has
	of the war they are off the long areas
	is flo to the supply therough the doctor P, & Do
	The Cureow devicases in this stage.
-	Vous effectively the when deocles conduct
*	To
	Vaus = 1 (Volt - Volt
	OFON
,	Vage = Va (2x-1) N= Ton
	Vac = Va (2x-1) X= Ton
	A
-	Vary = 0 for x=0.5, no ouper voltage is on ac
	waveform with any Voltage equal to o
	A STATE OF THE STA
_	for X>0.5, the Voye = (-ivo), the chapped was in
	oregeneration mod The frame flows from load to the supply to the ac modeline operates as generary.
	the such of the ac modifie operates as generary
	The suffing to
	from flow from supply to the load. This is shirter to overliftedion of the communical convenies (\$< 90°)
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	Money from home software (a < 90°)
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