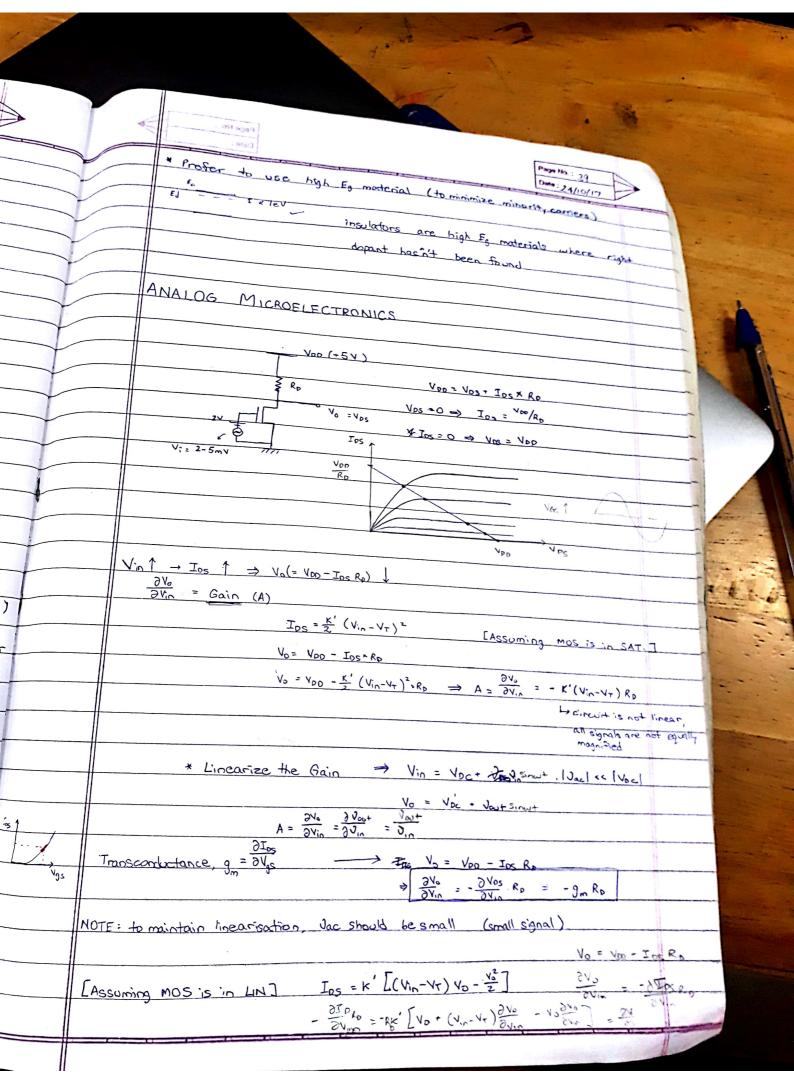
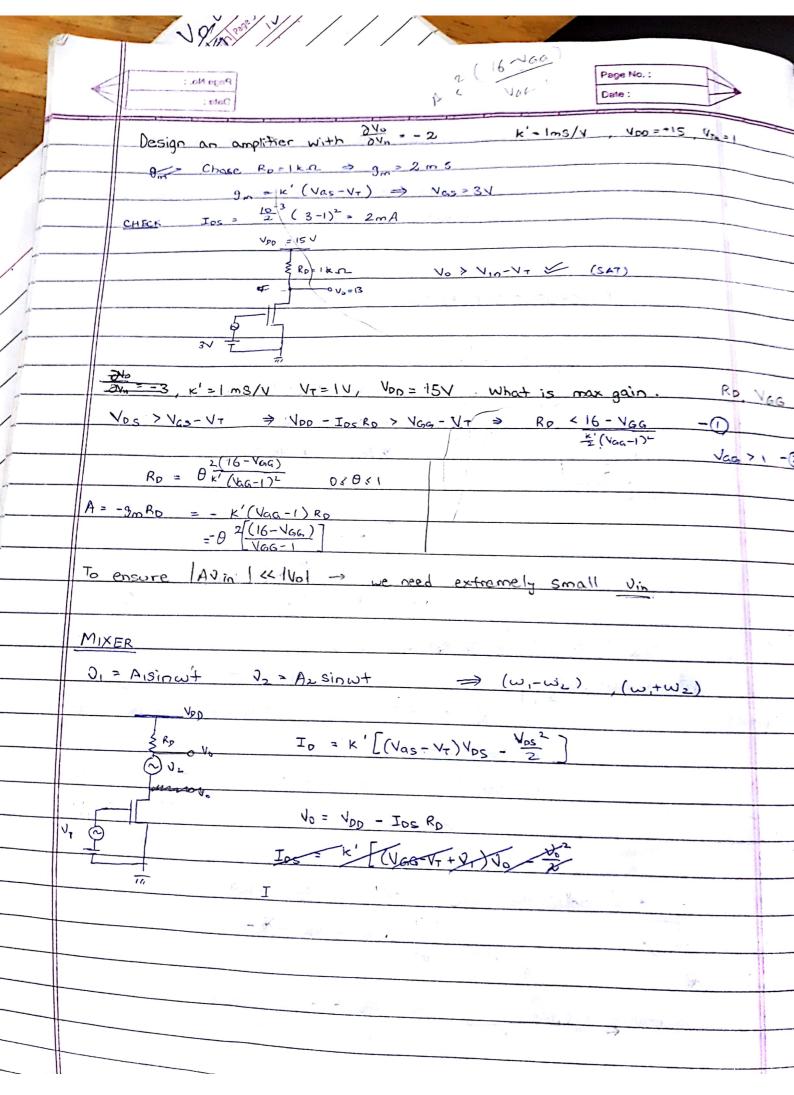


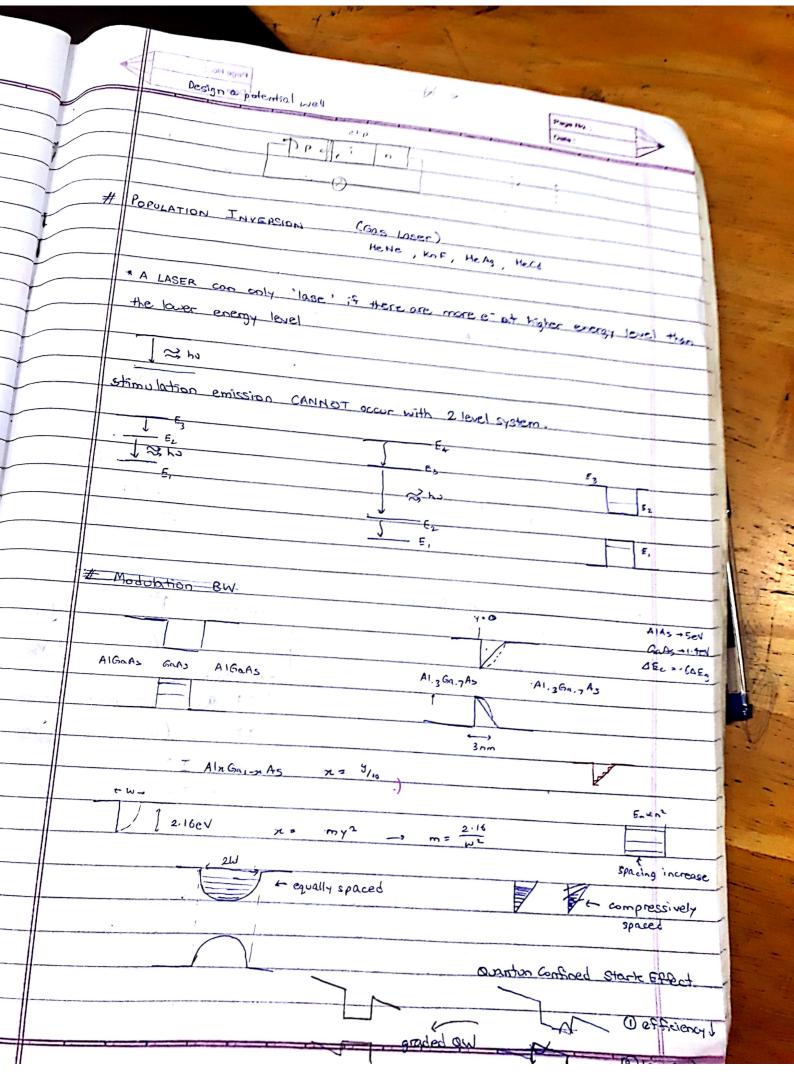
Scanned by CamScanner

Si- MOSFET is successed,	il due to not	va sia		
Trans eller like Cameitor	- Colors down	diode)	Page No.: 38	
			Date: 24/10/17	
F. MCW ((VG5-VT) VI	05 - 2	Vos x Vas		
I ₀₅ = }				
ach (Vas-VT)	Vos > Vas	- VT		-
HHMT - used for		,	*	
HHMT - used for power	mosistac			
MESSET				
MESFET (Metal Sem	iconductor	FET)		
-10	* subthre	shold e compa	is significant	
$(n^{2})^{5}$ $(n^{2})^{5}$ $(n^{4})^{5}$ $(n^{4})^{5}$	* ha.l	THE CONTRACT	is significant	-
(nt) 5 n GaAs (nt)	- mgh	gate leakage		
The state of the s	00	· ut (imp	unity entering)	
	- GaAs	igherII inh	creatly better the	
177	so free Ispeen	: MOSEET	< MESFET (H	an Si
" used as transpo	reine-		TIESPET CH	EMT
	CIUPP		- N - 1	
HETEROJUNCTION BIPOLAR	TRANSISTOR		F. 1	1 +
* BJT => correct controlled	Mos			VCE
7,544 81	1105 =	Voltage con	trolled	
width of base : narrow (Transfer effic	ency), lesser	-doped B	
Heavily doped E (- more	e e injection	lesser bo	de coment (Lan	
Lightly doped C (e-will	move through de	1 -eai	TON TON	series Re)
T diff		Taste	er BUT high serie	SRc)
P				Subcollector
h drift Mpdrift e drift , H		8 1		
, and	1			
π				
P		103-10 A/C	im ← 837 : 2~ .99	-> B = 100
			HBT : ~ ~ .90	79 -> B=1000
e gift gust y gift			200GHz ,	10 5 A/cm2
	•	25	*	
HBT E B C	;		AlGaAs	
	AS InP	7	J.	
Alfas GaAs GaAs		0.0	. 1414	ia As
Alfas GaAs Gar				1.00
			3 to 1 m	
	1 Cas bigh	barrier on the	°×,	
(-) series resistance to of AlGaAs		barrier contract	,	``
			slocked by barrier so lesser time by	Y Even lesse

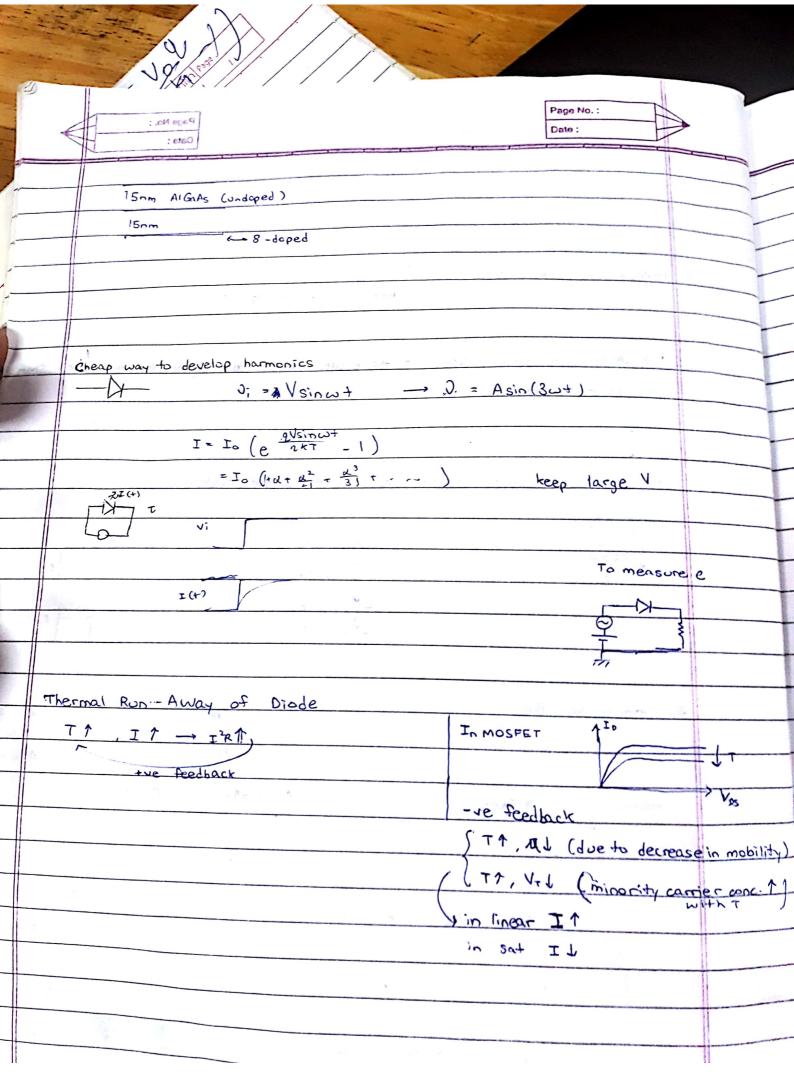


Scanned by CamScanner





Scanned by CamScanner



Scanned by CamScanner