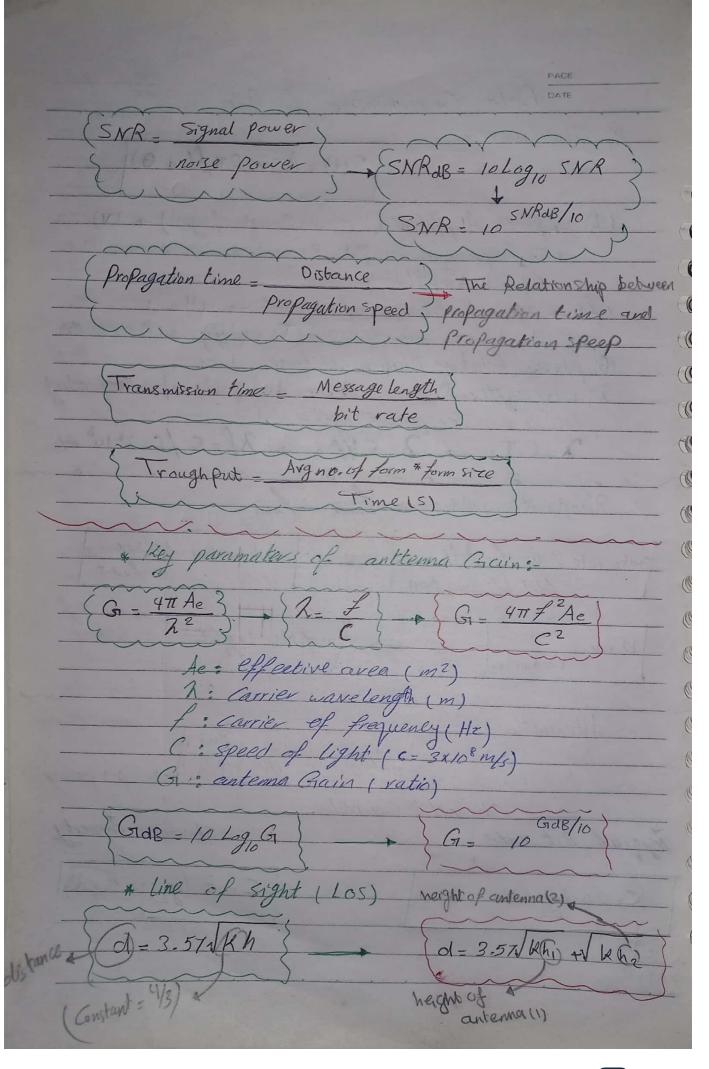
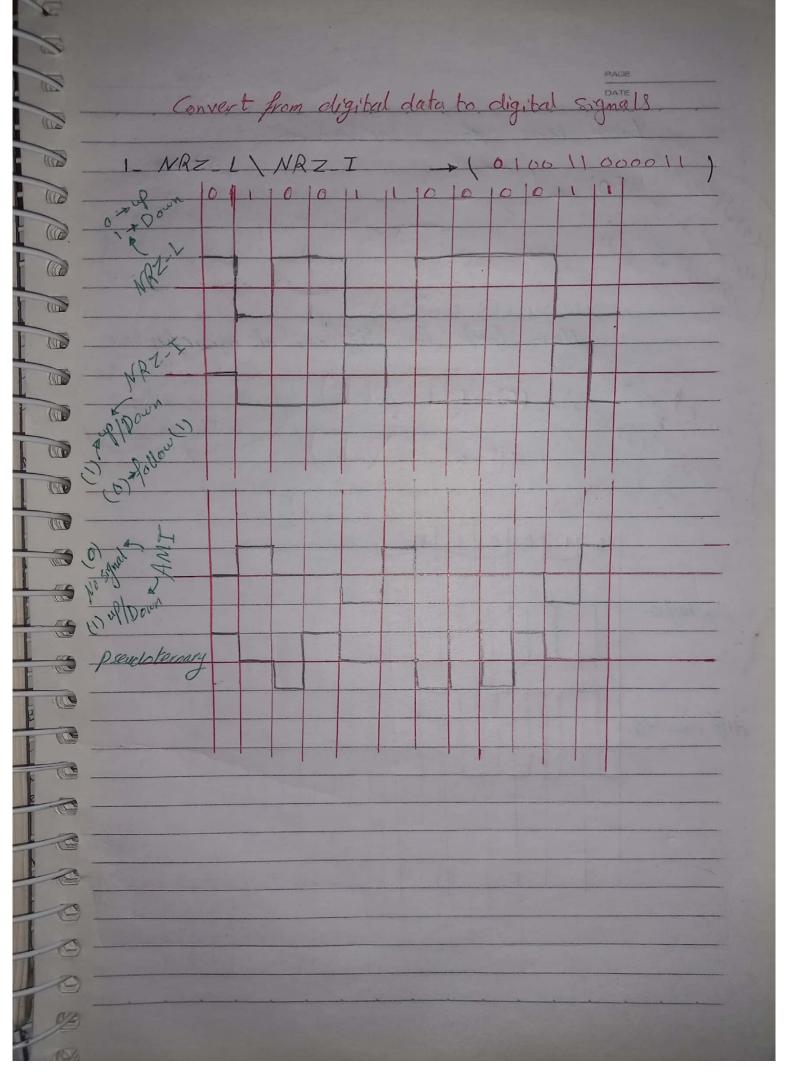
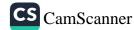
Data Communication for Rules DATE (1) Sine wave :-S(t) = A Sin(2TIft + 0) · peack Amplitude (Maximum strength of signal) - (V) * In Frequency-domain flot, the vertical caxis measures the (peach Amplitude) Relative position in time. Distance between two points o Bandwidth rule: Data rate - no. of . bits total bit duretio hibduration total bit duretion no. of. bits - Log L bit rate bit duvetion Attenuation Signal to paise ratio

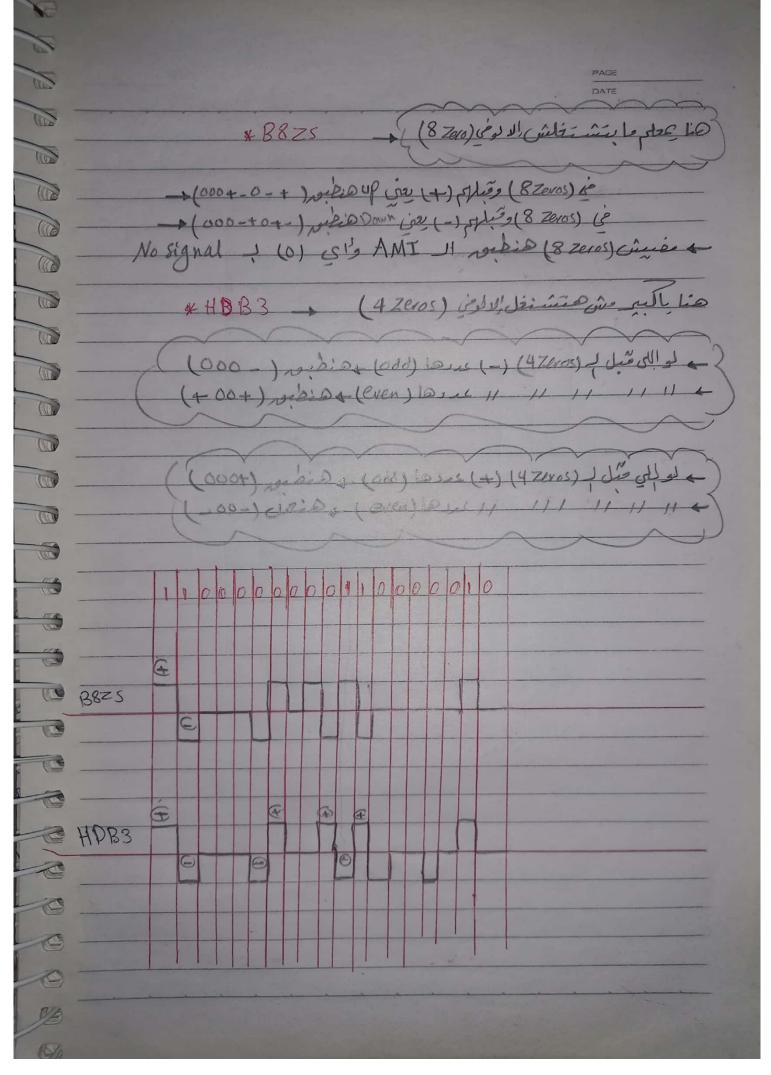




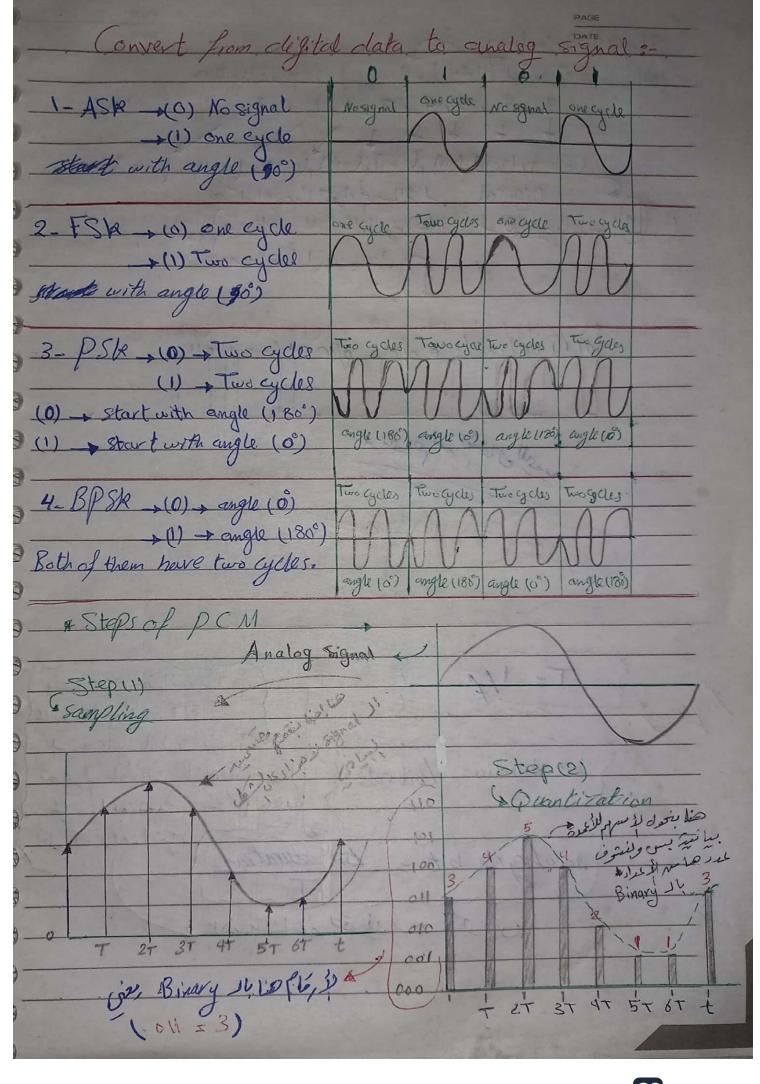


manchester





Tho of bits per seconds (no of elements per second is the number of signal elements per second. Band rate In the analog transmission of digital data, the bandrate is loss than or equal to the intrate Sampling/sec) (yes Data rate - no.of. hit * sampling rate SNR = 6002 + (no. of. bils) * 1. 76 no of Cells = bit rate for all system bit rate for one cell Datar Bandrate = (Bw) adifference between bitrate = boud rate & no. of bit per second full duplex & Bw fix we as Dell is Jeds former & full duplex sig



& parity check (odd) 1561 Massage II ions I see rud if m Message I (1) ions (even) 1561 Message I is upolosis is russ if m Message I (0) cinio * Odd * Even 11 001 00 11 00111011111 1100100110 even (1) -(01110111110)



Ex: The bit stream 10011101 is Transmitted using the CRC method described in lecture using generator Polynomial x3+1 1) show the bit string transmitted 2) Show that, if the third bit from left is inverted during the transmission, the receiver can detect it.			
		Sol: M=10011101 , P=x3-1=	1001
			1001
		Consine real	
		ala (30), ala maria di mangalaria	7/2
Commission of the colonia			
	Common desirth Common		
	Scanned with CamScanner		
1) Transmetter			
The state of the s	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
Add no of zarto message sis	اول حامة دعشف عدد من الاصغار ما عدد هم بدكون. الكير مع degrae للا كامنا عدد كل معالى عدد		
M=10017101 000	THE SELVE X SIE LIDIX N. DEGRACIONS		
Oivided M' by P			
10001100	1P SeM 11 pais		
1001 10011101000	bit belefaires ex elelel		
X0001	على سمال و خطها ايدمامي منوعي		
`ooooV	. بعديها زاخه ١١ ١٠١ إظ الله حطيفها		
X0011	. عنوف ودفتر مهابال . P		
X0110 0000	ناتج الفرب معطه يكت اله		
X1101	بعدین معل ۱۵۸ سی او د tid		
X1000	عادالشمال شي هعلها عملا وهع		
X0010 2000	معاملها عُ الناتِح (X)		
X0100	وم ماعات عمر منزل tid من ال		
0.000 reminder $\rightarrow X100$	الله ليحت مع الناتج		
O	وعفال كلا كد ماظام ال		
Merge reminder to message:			
T=10011761100	als bit stream.		
	bit stream I Chelalores		
	A Liste reminder De a la Fall de la como o		
	described in behave using Generalor		
1 11111111111	الكرطاعة الكرطاعة فوقد واحتمالا		
1001111111	الله المساكم الما الما الما الما الما الما الما ا		
X0101	سبقولله ان عالم الخطر المام المامة والمتعمل المسا		
X 1011	brate neo still sinkert when		
10 0 1 V	الورك اعظيها (٥) ولو (٥) اعظيها (1)		
×10.01	و طريقة المسمة زعي العيم فوق		
10 0 IV			
X00 1D			
000 0 V X01.0 0	error que ven reminder aco.		
7100 - reminde #			
2			

* FDM the san All han Al to M FDM - Multiplexing) (F no. of guard band = no. of signals - 1 Min Bandwidth for Multiplexing = no of signals & Bandwidth of one signals + no of guard band & Bandwidth of guard band elular FDM multiplexing 1 is - no of signals

- Bandwidth of one signal

- Bandwidt of guard band ما معلى كريقا وإنت بدكل

