

Am Ac

In Jacobson Signal.

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Jacobson Jaco the modulated signal has same shape as baseband.

Signal

On the occeiving and, multiply, A sin wet.

Lamparens of the fee = 2fe-fm = - fm.

Lamparens of the fee = 2fe+fm = fm. After that pass it to low pass filter > got fm. C= fx base bard fis small > f is high. - anterna must be big, modulated fis lag. -> Les small -> antenna is normal sige. = connot transmit at base band freq.

(also noise, & absorption of medium) Terminology. Mark & Space.

Interpreting signals. 4 probs. 1 06 1 0 11. 00 1st prop) Adopend on the Clark, interpretation of 1 or 0 is different.

2nd prob) where to sampling makes a difference.

3rd prob) oversampling, supposed send. but sampling 1. 1. 1. 4th prob ) under sampling.

- 1:

muss bit. Del d Digital signal encoding format 1 RZ-L: -Sv. NRZI: 0-1, 1->1; there is a transition when.

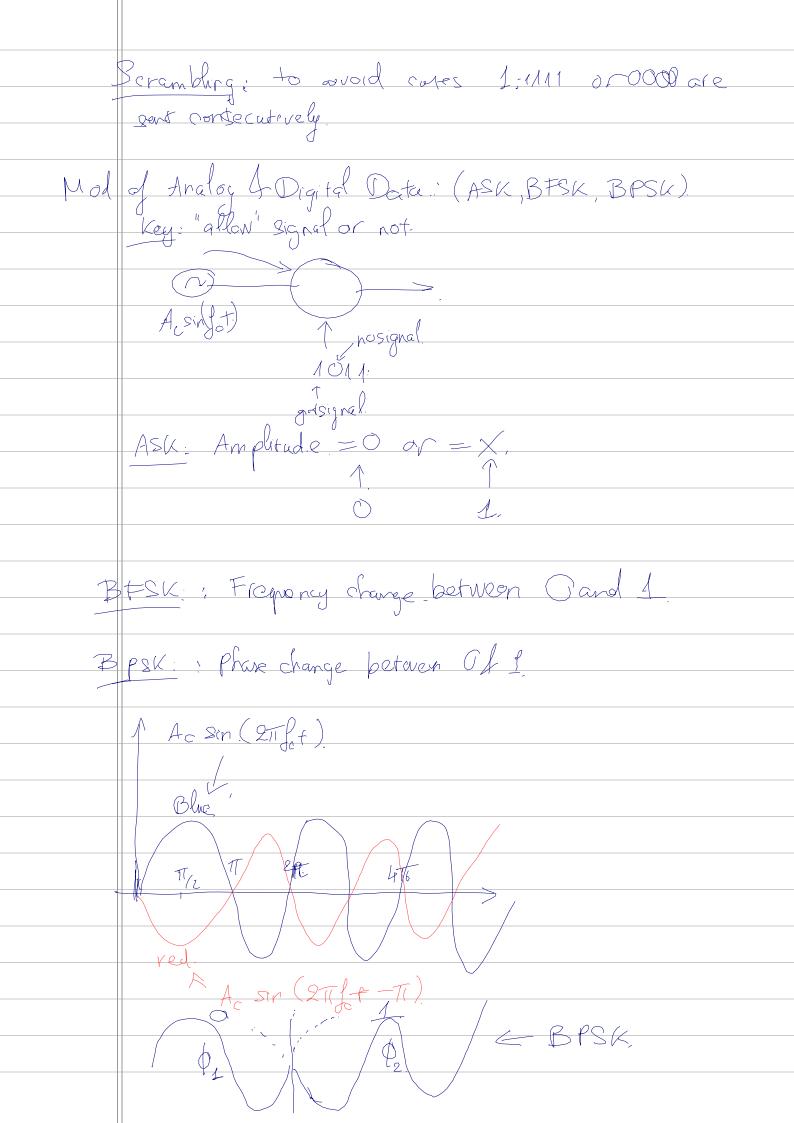
going to 1. Bipolar AMI: O: no charge 1: either positive or negative afternatively. Pseudoterary: 3 fevels: 1 is represented by O-level.

O; s regressated by positive (1) or negativity.

(1) alternatively.

Marc	hester: $0 \rightarrow 1$ $1 \rightarrow 0$ , to	manuscian in the middle
	O: lower	
	1 raiser	
Different Manches	ter: Manchester +. the	afternatie of previous 100.
		ve the bits > plat I define the ) name
Ξno	edina Schemes	
	Signal spectrum: focus on the	middle to not interer with
	other sign	middle to not interer with also
	tM., not susceptible to	noice, petter than ITIY.
Spec	tral Density of Various. si	gnal encoding schemi
V	tral Density of Various. si ? don't understand	
	2/renglith 1	Weakness
NRZ-L		-uverage DC voltage - difficult for consecutive for Os
NRZ		alliant for consection to a sign
Bypola-A	MI much better detection	- need vider spectrum.
lary = 0	of 2 Pevel is bog (next page)	= need vider spectrum. = consume more energy/pours if gap is big (?)
, 0		
Manches-	er: transinon in each bot	- freg is double than other
	synch of clock rote.	
	J. J.	

	Molte (m.
	2 hours:
	Our Drama LAX
	Qn from LAX  - j different bother repeator, switch, hub., router.  1 similarity
	Transmission Uddia
	Why certain devices use for certain Barrdwidth fibre; how info flow, use coxial cable.
	Compare encoding scheme.
	polar AMI:
101	odar AMI:  reducingo: logic 1 - cur he SU, WOV, 2,5V etc.
	l'avantago: 2912 : Carrie 30, mov , 2,3 v acc.
	logico - OV moise bring Ovup.
	S V 2 comprision threshold is 25 V.
	SV.
	-> much better detection.
	Power - Vottage V2.
	logic 1 - v.  Ligic 0 - Ov
	$l_{qic}O - OV$ $E = PT = V^2T_b$
	The state of the s
	$logic 1 \rightarrow \frac{\sqrt{(0.28)}}{2} \Rightarrow E = PT = (\frac{\sqrt{7}}{7})^{\frac{7}{1}} \qquad \frac{\sqrt{2}}{\sqrt{7}}$ $logic - \rightarrow \frac{\sqrt{(-0.28)}}{2} \Rightarrow E = PT = (\frac{-\sqrt{7}}{7})^{\frac{7}{1}} \qquad \frac{\sqrt{2}}{\sqrt{7}}$ $logic - \rightarrow \frac{\sqrt{7}}{2} \qquad \frac{\sqrt{7}}{\sqrt{7}} \qquad \frac{\sqrt{7}}$
	1601 (-0x); - (-v)2-
	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	$\Rightarrow \sum E = \frac{\sqrt{2}}{2R} + \Rightarrow less = rergy$
	· CK



	MESK 1 frequency for different values (Insted for 0-1) in BESK
	in BFSK  M-4 > trankr in half time shofter.  than BPSK on the same data.
	QPSK: change phase every 45°
	Practice 5,11 GPSK & OQPSK at home.  8 multiplier
Midrem	QAM: not much really use Until 39 / signal encoding