

SI	70	1	70
SL	5	001	15
53	20	61	40
S¢	5	000	_15_
			140
	1.4	bits/symbol	
		, , ,	r.
7			

 $S \rightarrow \S S_1 S_2 S_3 \dots S_N \S$ Ly Ly Ly ... LN $S \rightarrow a$ message of length M in time T $In M \rightarrow m_1 m_2 m_3 \dots m_N$ $M = m_1 m_1 + \dots + m_N = \ge m_1$ $M = m_1 + \dots + m_N = \ge m_1$ $M = m_1 + \dots + m_N = \ge m_1$ $M = m_1 + \dots + m_N = \ge m_1$

$$5_1$$
 70 60 \rightarrow 140
 5_L 5 01 10
 63 20 10 40
 5_4 5 11 10
 200

2 bits /symbil

Sı	70	0	70
SL	5	01	10
53	10	1	20
59	5	(0	10
			110
	3	1.1 bits/symb	10
5,53		0 \	

+	=	ayg	bute	her	~ n	0 60 1
-		007	שומ	PC	07 M	1001

$$t = \sum_{i=1}^{\infty} \left(\frac{m^{i}}{M} \right) l_{i}$$

minimize t

$$H = \frac{Z P_i \log 1/p_i}{1 = - Z P_i \log p_i}$$

EUROBA

Lossless	Locsy
No 1835	you don't get original
VBR	CBR
! guaran teed	guaran teed

Lossless	Lossy
Removing repetition Frun length repitition supression Patter based LZN Statistical	Importance - quantitation - quantitation - filtering - subsampline - Prediction based - DPCM - motion compensation
- Huffman - Arithmenc - Shannon Fano - Grownb	- Frequency domain - Fourier Det - Det - Wavelet - KLT - subband JPEG MPEG ITU

Runlengin

S = ga, b]

aaaaabbbaaabbbb ---

a563a364

LZW S= {a, b}

<u>a b b a a b b a a b a b</u>

0 1 1 0 2 4

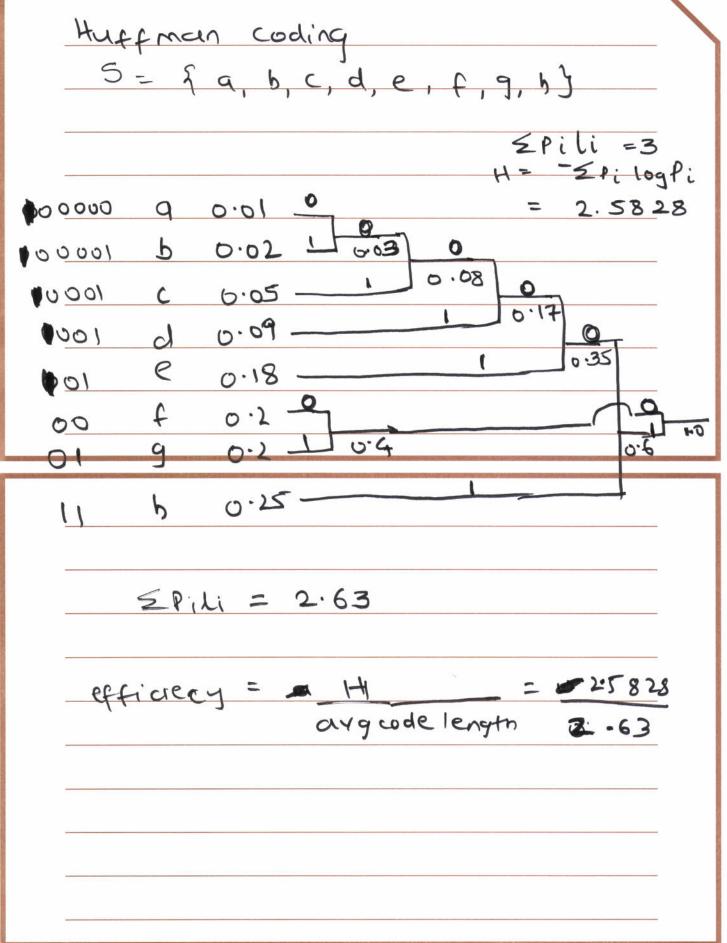
a 0 ba 4

b 1 aa 5

ab 2 abb 6

bb 3 baa 7





Anthaetic		
5-{a, b	<u> </u>	
2/3		(]
	0	
	- aa 1	
	4	
a	-419	,
2.40	- 4/9 - 6/9	
7-13	pg pg	11
Б	1819	(()
	- 1	

3	22 2	20	2-1	2-2	•••	_

L0557	comi	ress	MOi

bpcM

d₁

open loop

$$d_1 = y_1$$
, \hat{d}_1 , \hat{d}_2 , \hat{d}_3 , \hat{d}_4 , \hat{d}_5 , \hat{d}_6 , \hat{d}_7 , \hat{d}_8 , \hat

$$d_{1}=y_{-}y_{1}$$
 d_{2} d_{2} d_{3} d_{4} d_{5} d

closed loop

50	Ibband coding
I The	LPF HPF
	`

7.W-