

Figuras do Capítulo 6

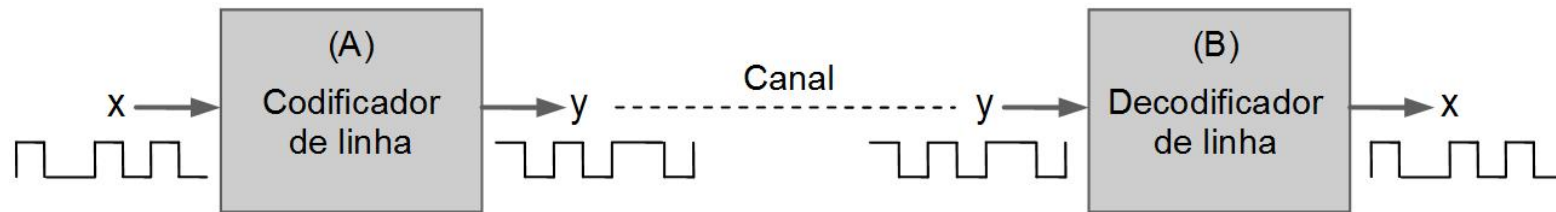


Figura 6.1

Figuras do Capítulo 6

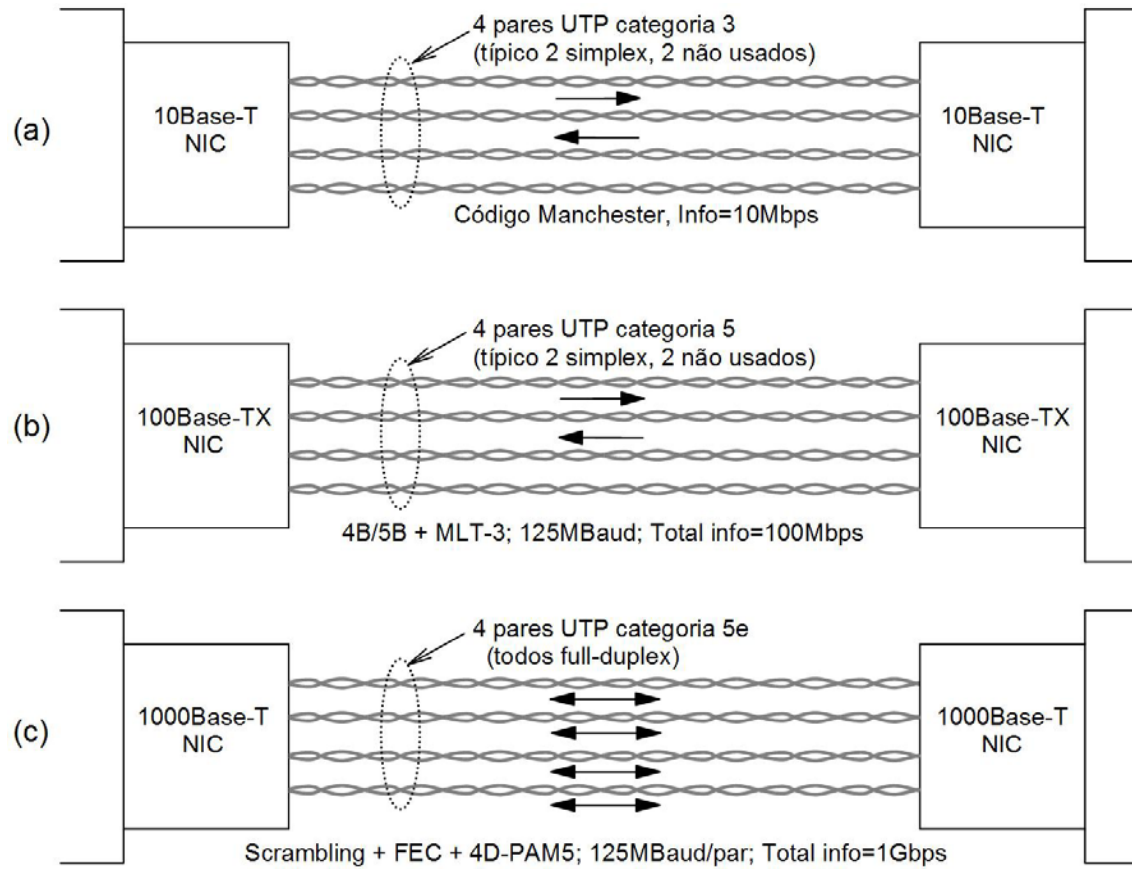


Figura 6.2

Figuras do Capítulo 6

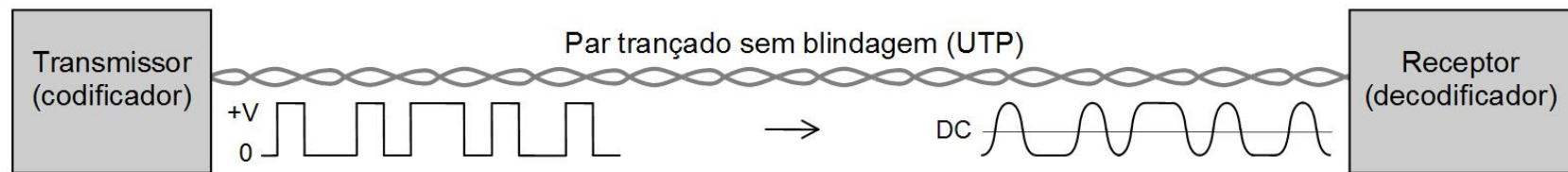


Figura 6.3

Figuras do Capítulo 6

Códigos de linha		Siglas: NRZ = Non Return to Zero RZ = Return to Zero NRZ-I = NRZ-Invert AMI = Altenate Mark Inversion MLT = Multi-Level Transition mB/nB = m Bits / n Bits PAM = Pulse Amplitude Modulation
Códigos unipolares	NRZ RZ NRZ-I	
Códigos polares	NRZ RZ NRZ-I	
Códigos bipolares	NRZ RZ (AMI)	
Códigos bifase	Manchester Manchester diferencial	
Códigos MLT	MLT-3	
Códigos mB/nB	4B/5B 8B/10B	
Códigos PAM	4D-PAM-5	

Figura 6.4

Figuras do Capítulo 6

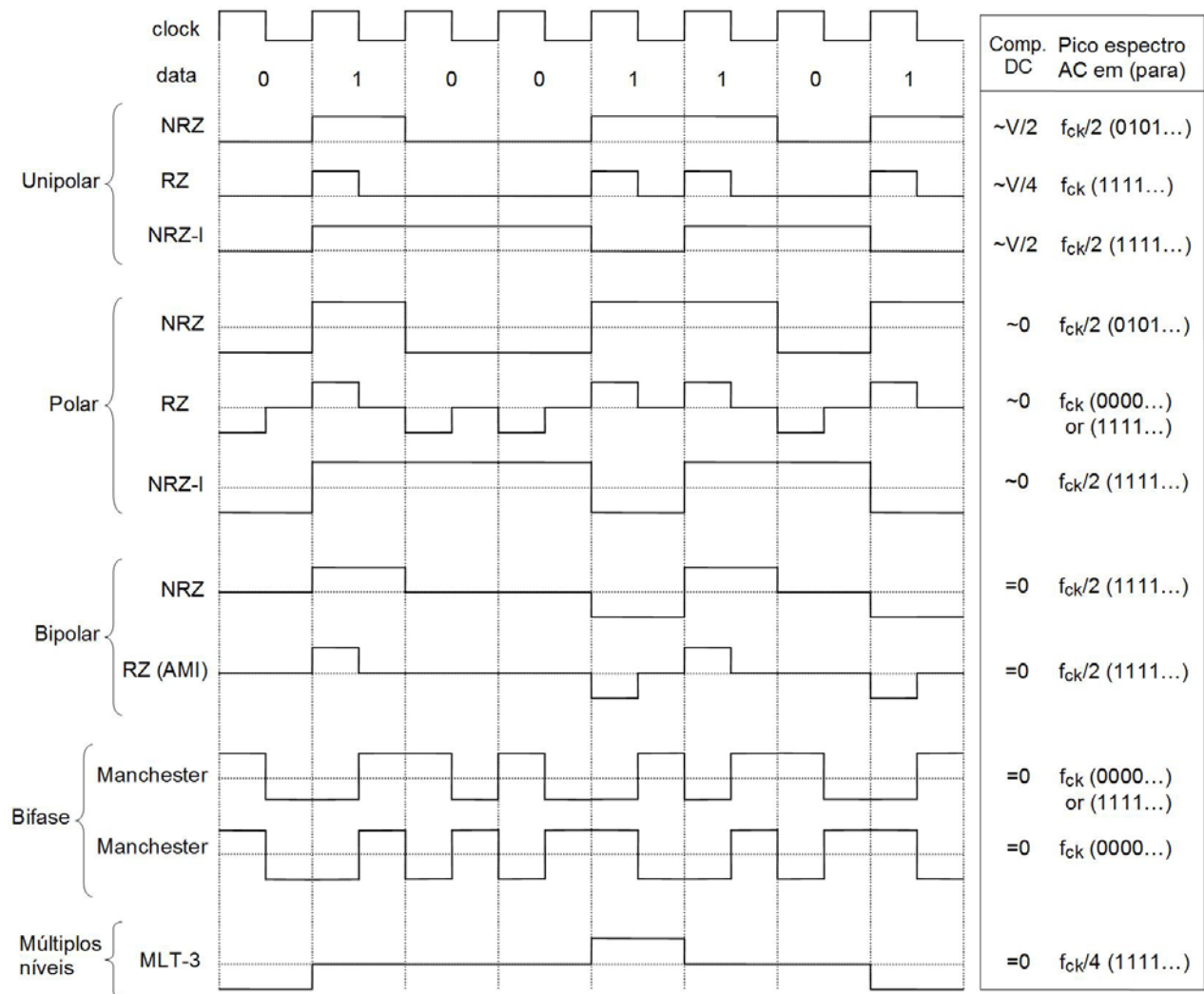


Figura 6.5

Figuras do Capítulo 6

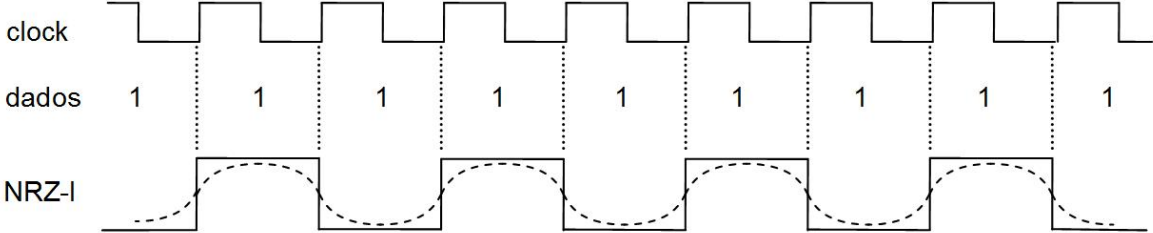


Figura 6.6

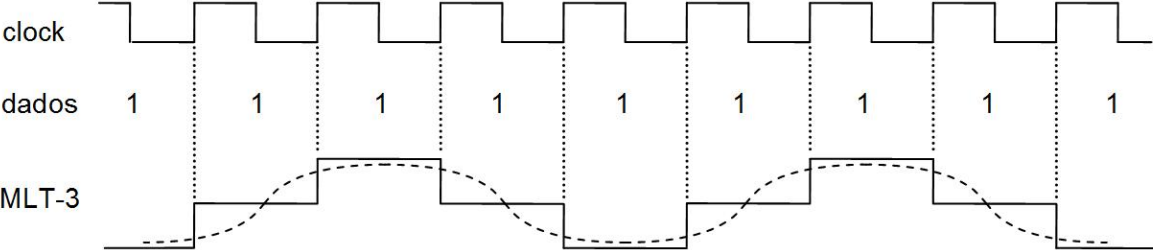


Figura 6.7

Figuras do Capítulo 6

Código 4B/5B							
Entrada		Saída	Entrada		Saída	Caracteres de controle	
0	0000	11110	8	1000	10010	Q (Quiet)	00000
1	0001	01001	9	1001	10011	I (Idle)	11111
2	0010	10100	10	1010	10110	H (Halt)	00100
3	0011	10101	11	1011	10111	J (Start delimiter)	11000
4	0100	01010	12	1100	11010	K (Start delimiter)	10001
5	0101	01011	13	1101	11011	T (End delimiter)	01101
6	0110	01110	14	1110	11100	S (Set)	11001
7	0111	01111	15	1111	11101	(R Reset)	00111

Figura 6.8

Figuras do Capítulo 6

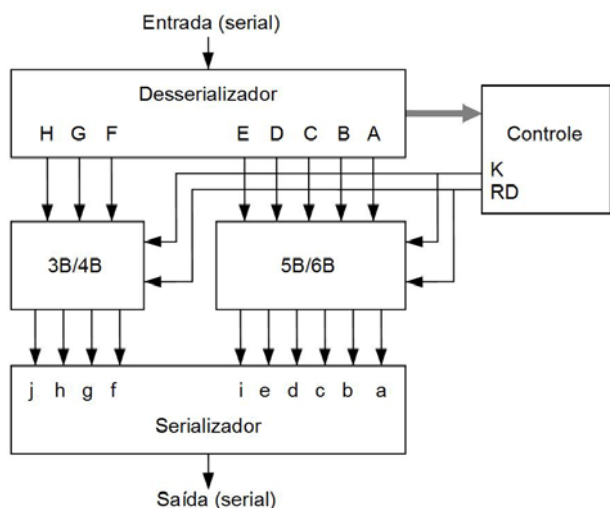


Figura 6.9

Palavras de código normais			
	Entrada HGFEDCBA	Saída se RD- jhgf iedcba	Saída se RD+ jhgf iedcba
0	00000000	0010 111001	1101 000110
1	00000001	0010 101110	1101 010001
2	00000010	0010 101101	1101 010010
3	00000011	1101 100011	0010 011100
4	00000100	0010 101011	1101 010100
5	00000101	1101 100101	0010 011010
6	00000110	1101 100110	0010 011001
7	00000111	1101 000111	0010 111000
...
248	11111000	1000 110011	0111 001100
249	11111001	0111 011001	1000 100110
250	11111010	0111 011010	1000 100101
251	11111011	1000 011011	0111 100100
252	11111100	0111 011100	1000 100011
253	11111101	1000 011101	0111 100010
254	11111110	1000 011110	0111 100001
255	11111111	1000 110101	0111 001010

Figura 6.10

Palavras de código especiais		
Cód. K	Saída se RD- jhgf iedcba	Saída se RD+ jhgf iedcba
K28.0	0010 111100	1101 000011
K28.1	1001 111100	0110 000011
K28.2	1010 111100	0101 000011
K28.3	1100 111100	0011 000011
K28.4	0100 111100	1011 000011
K28.5	0101 111100	1010 000011
K28.6	0110 111100	1001 000011
K28.7	0001 111100	1110 000011
K23.7	0001 010111	1110 101000
K27.7	0001 011011	1110 100100
K29.7	0001 011101	1110 100010
K30.7	0001 011110	1110 100001

Figuras do Capítulo 6

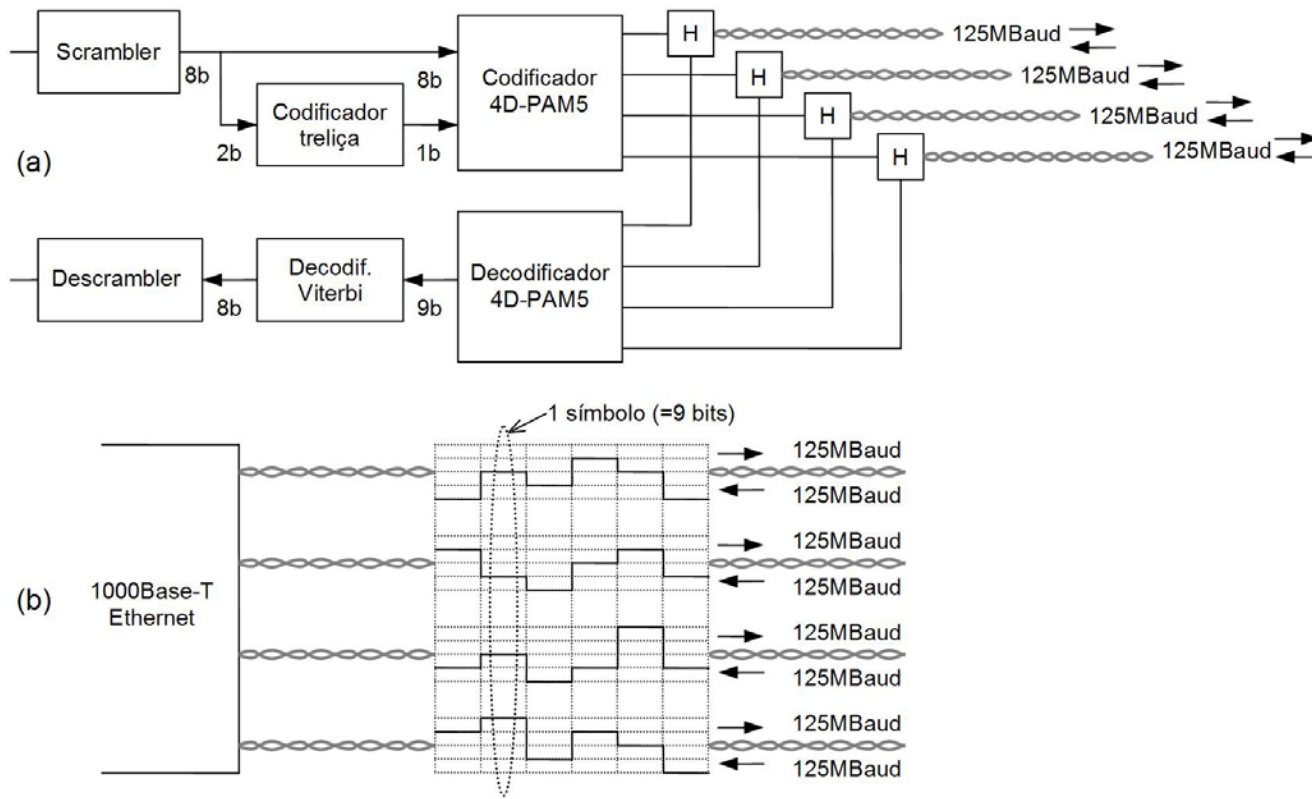


Figura 6.11

Figuras do Capítulo 6

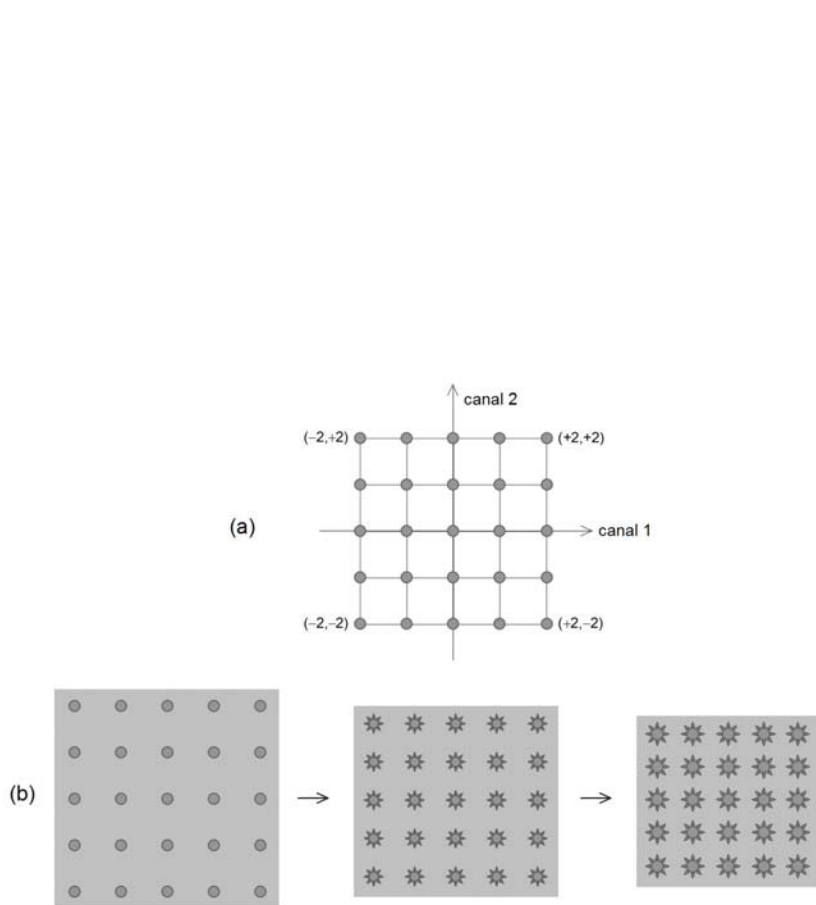


Figura 6.12

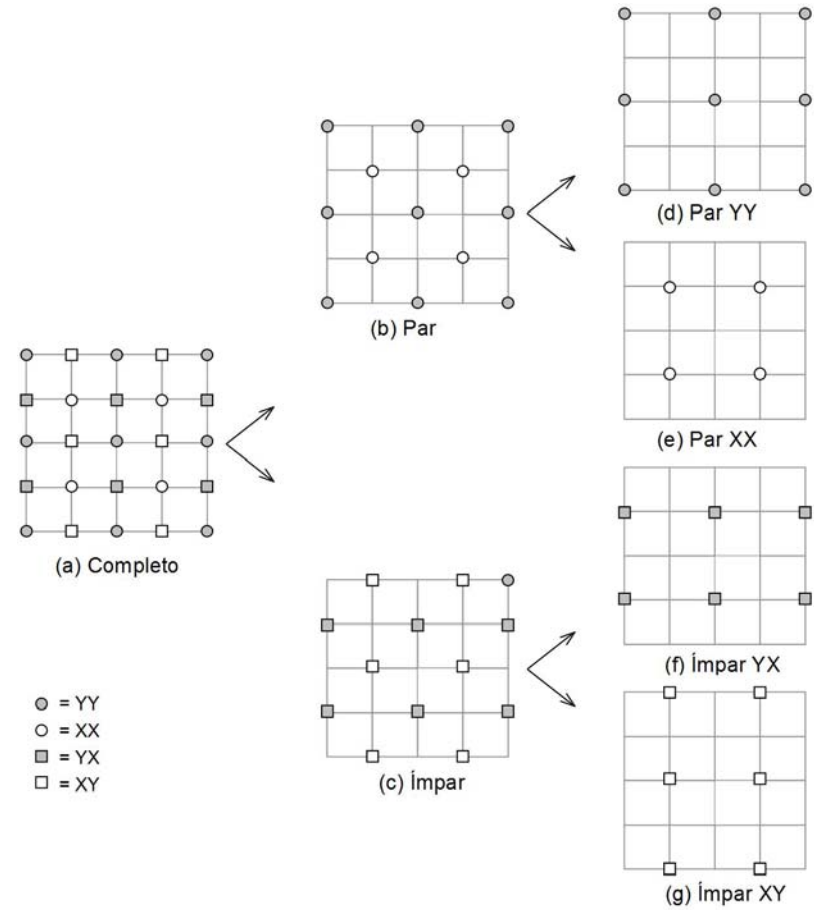


Figura 6.13

Figuras do Capítulo 6

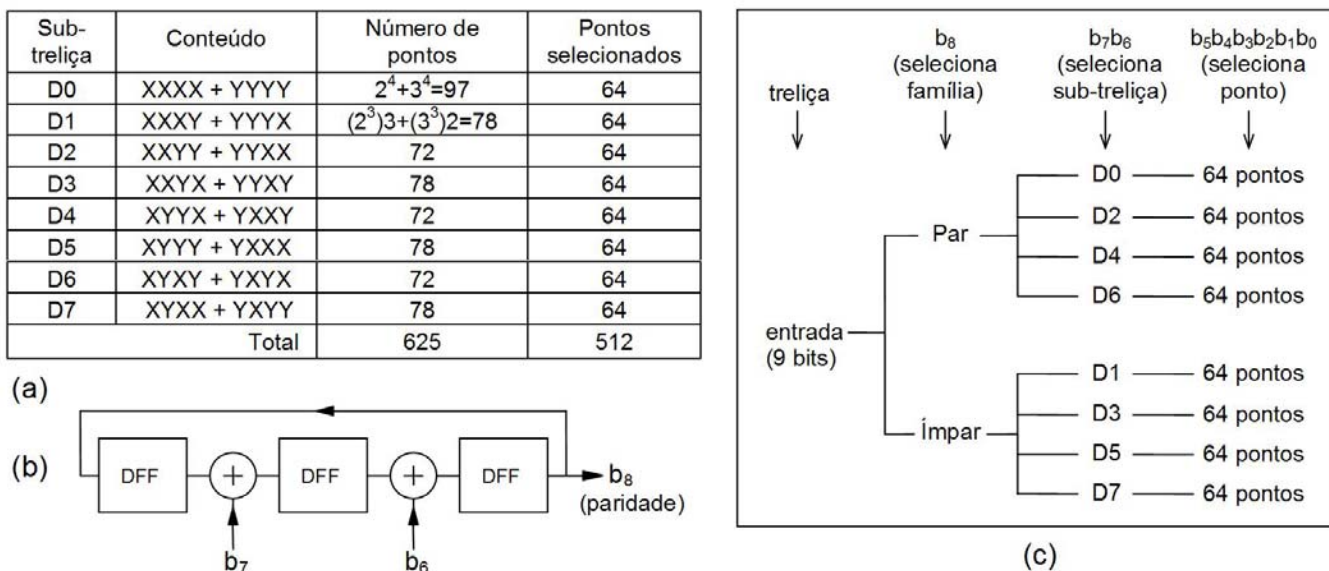


Figura 6.14

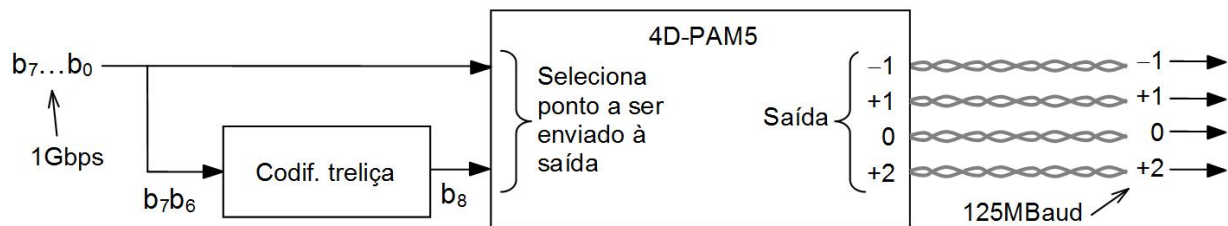


Figura 6.15

Figuras do Capítulo 7

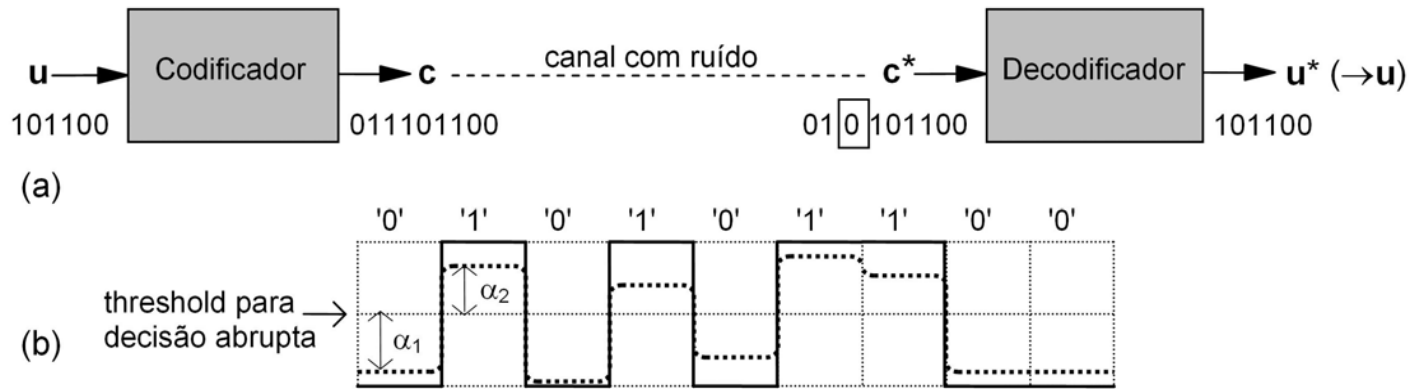


Figura 7.1

Figuras do Capítulo 7

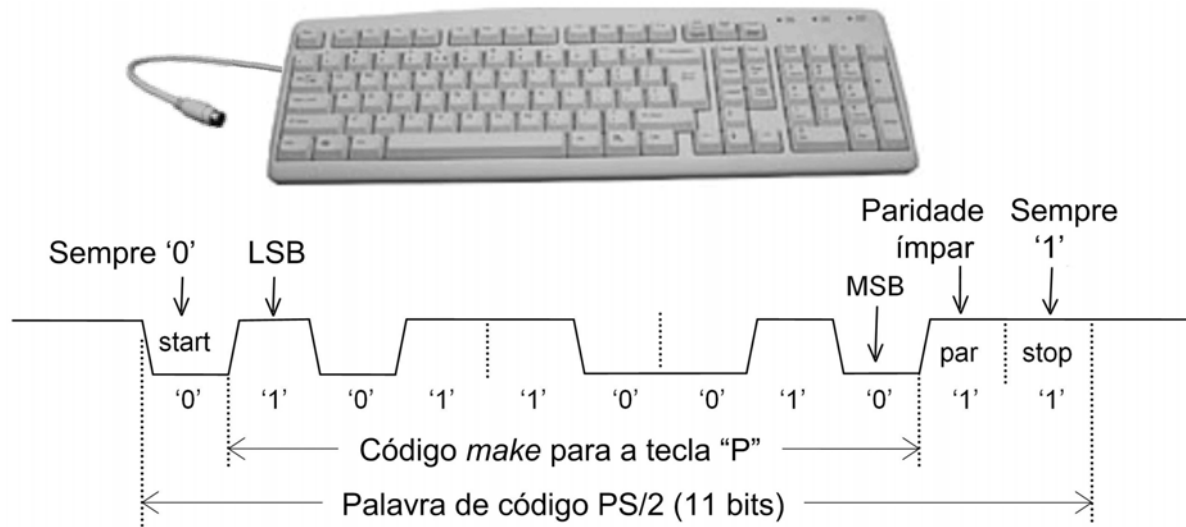


Figura 7.2

Figuras do Capítulo 7

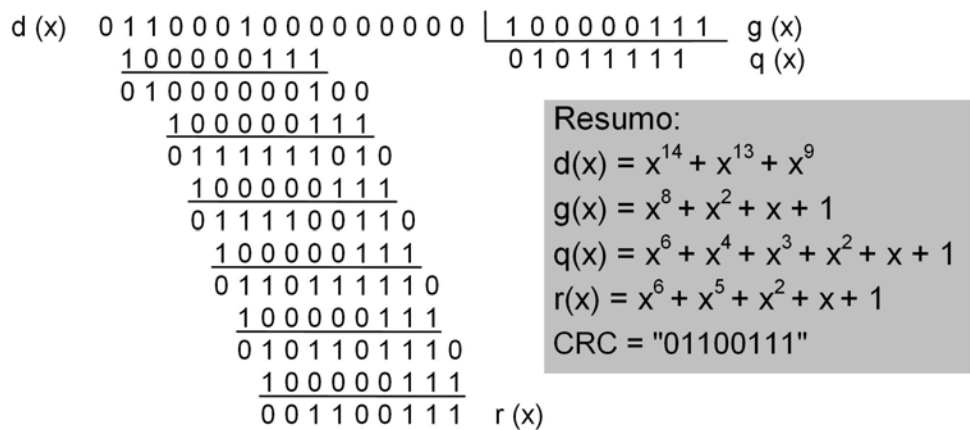


Figura 7.3

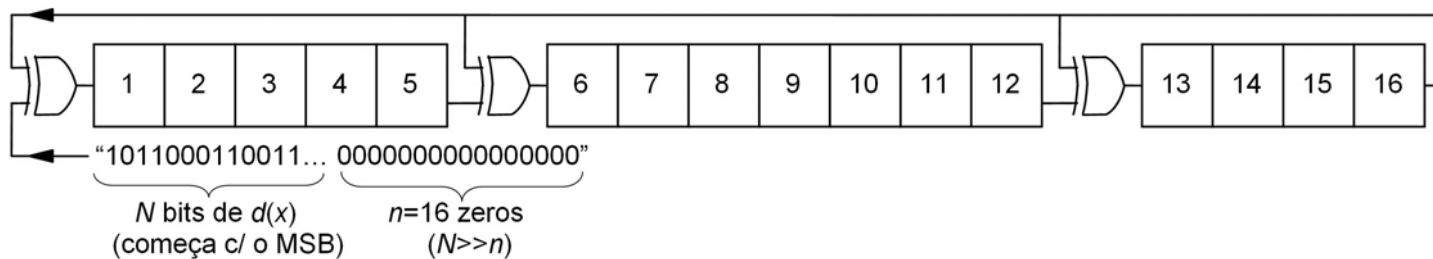


Figura 7.4

Figuras do Capítulo 7

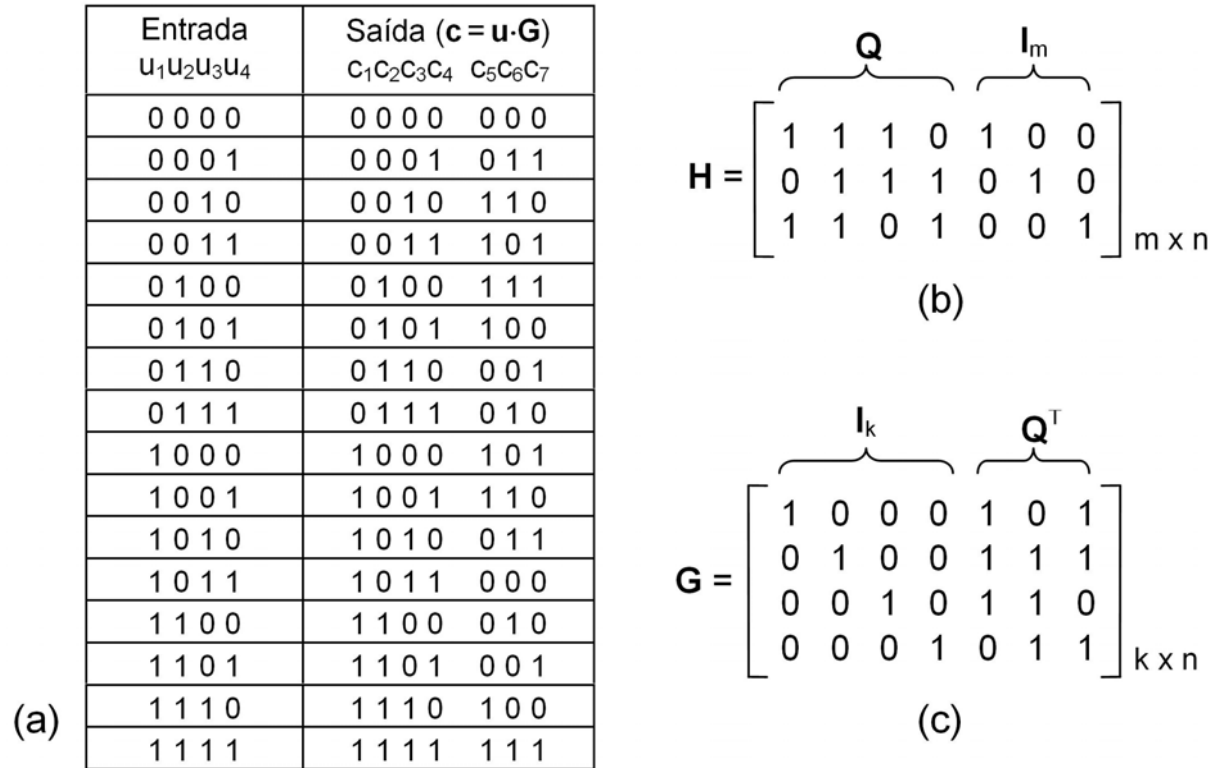


Figura 7.5

Figuras do Capítulo 7

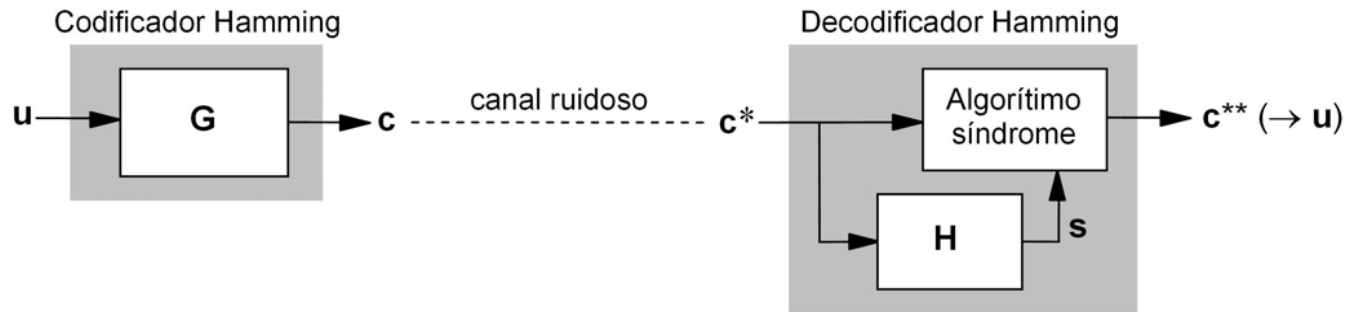


Figura 7.6

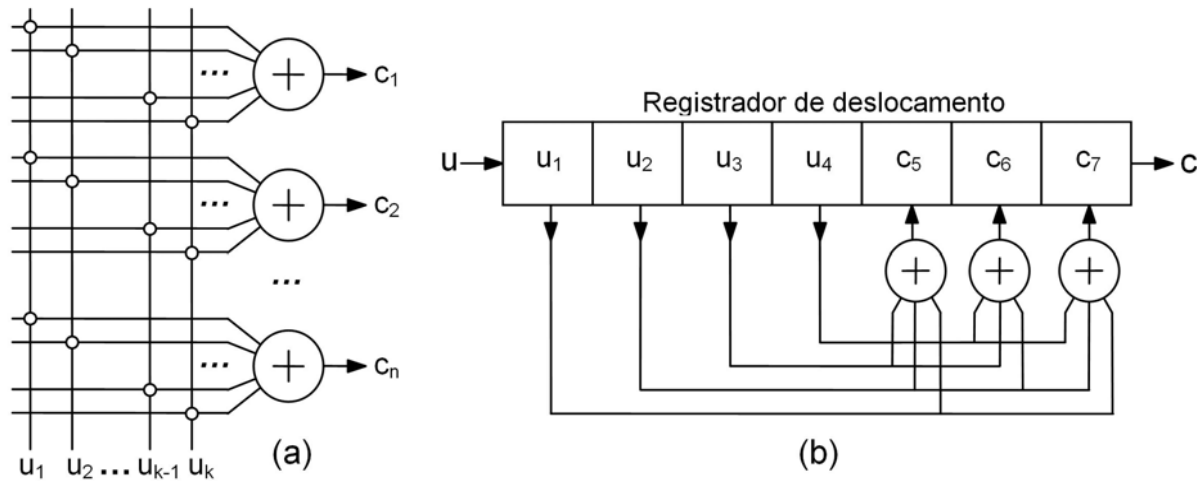


Figura 7.7

Figuras do Capítulo 7

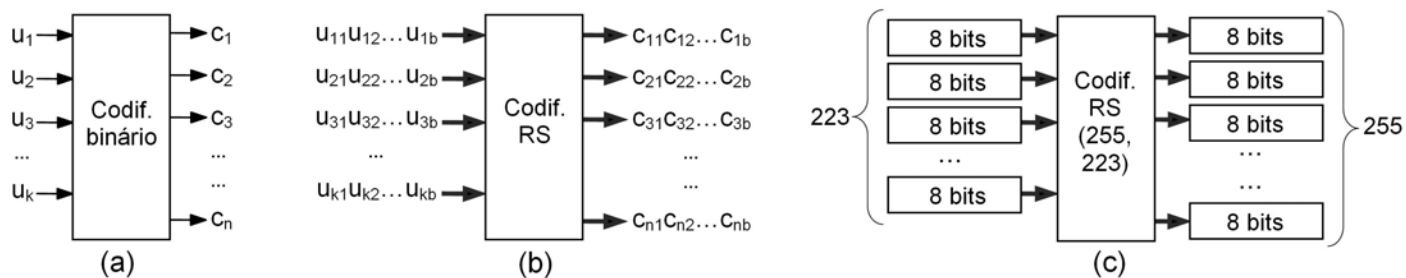


Figura 7.8

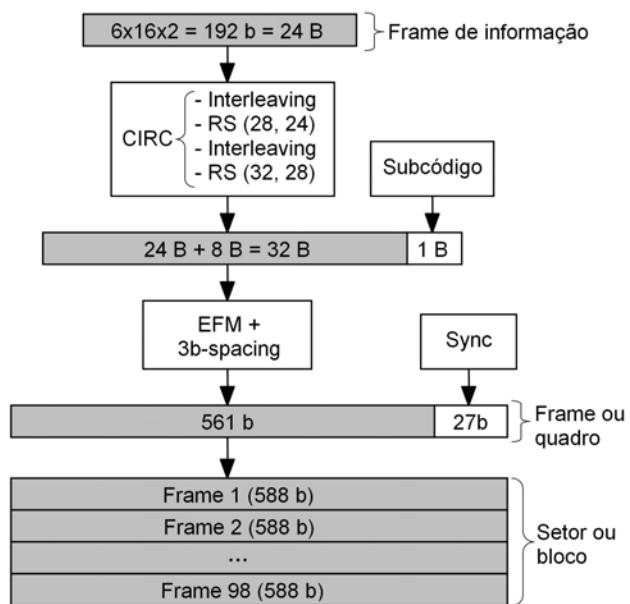


Figura 7.9

Figuras do Capítulo 7

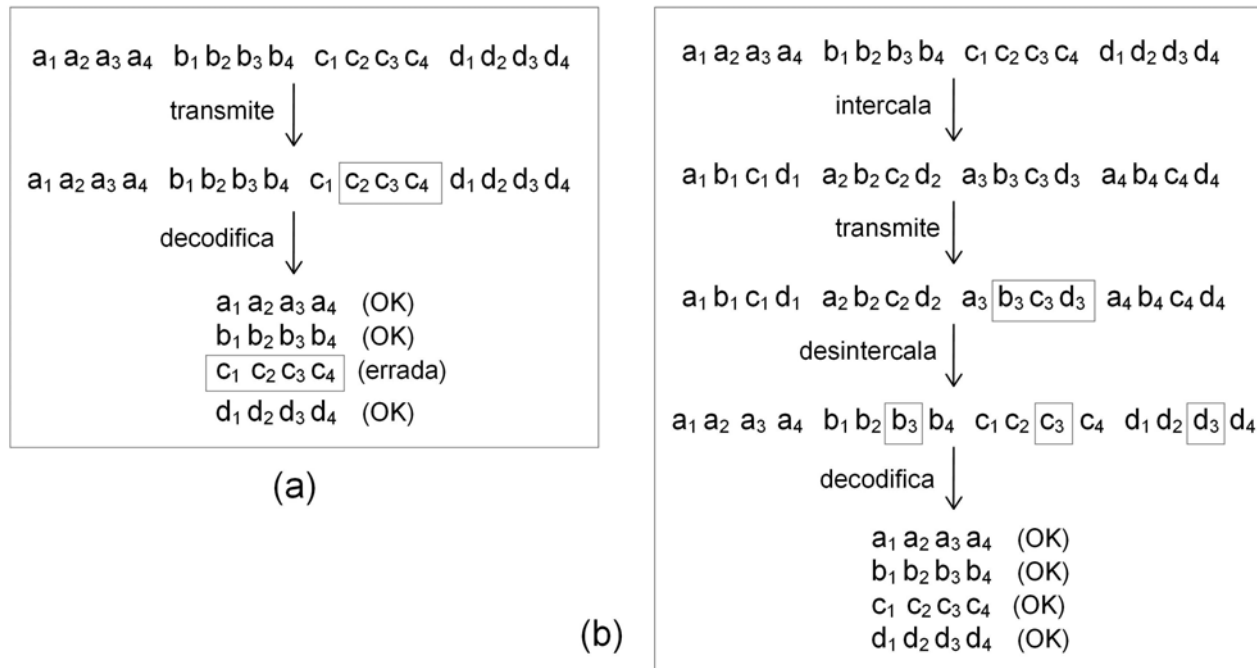


Figura 7.10

Figuras do Capítulo 7

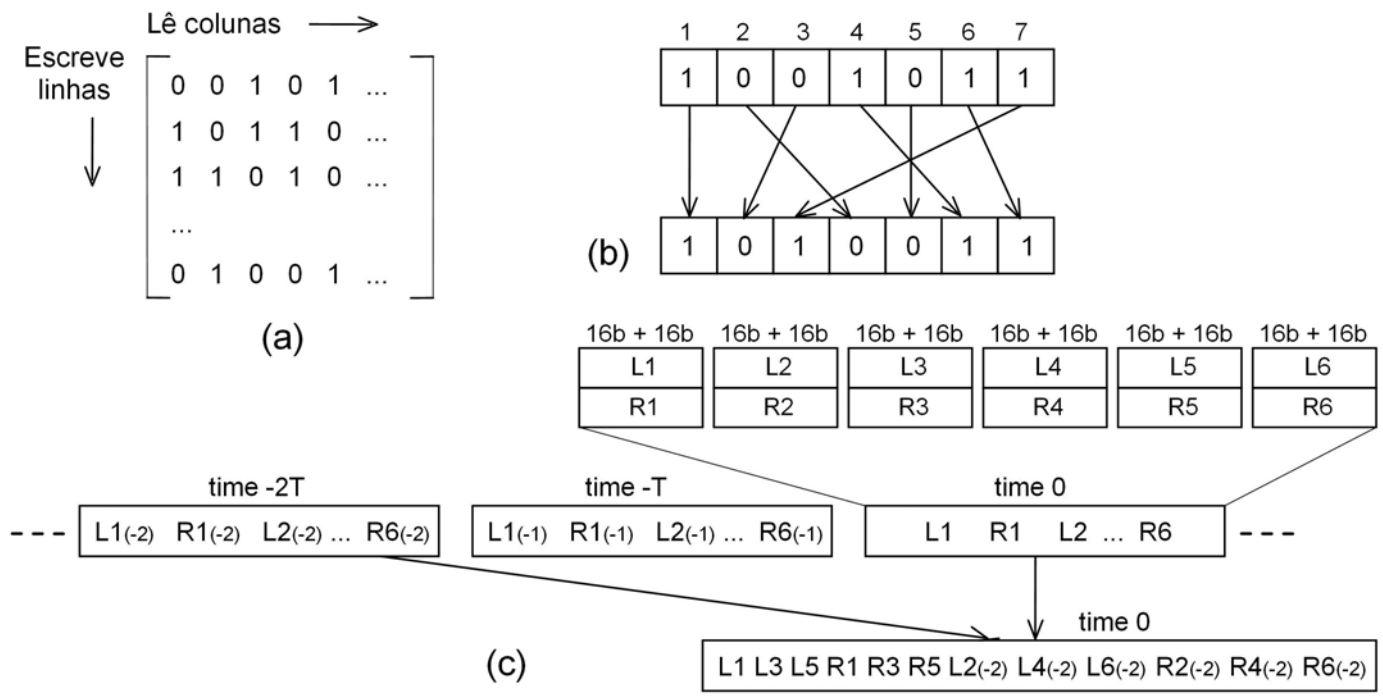


Figura 7.11

Figuras do Capítulo 7

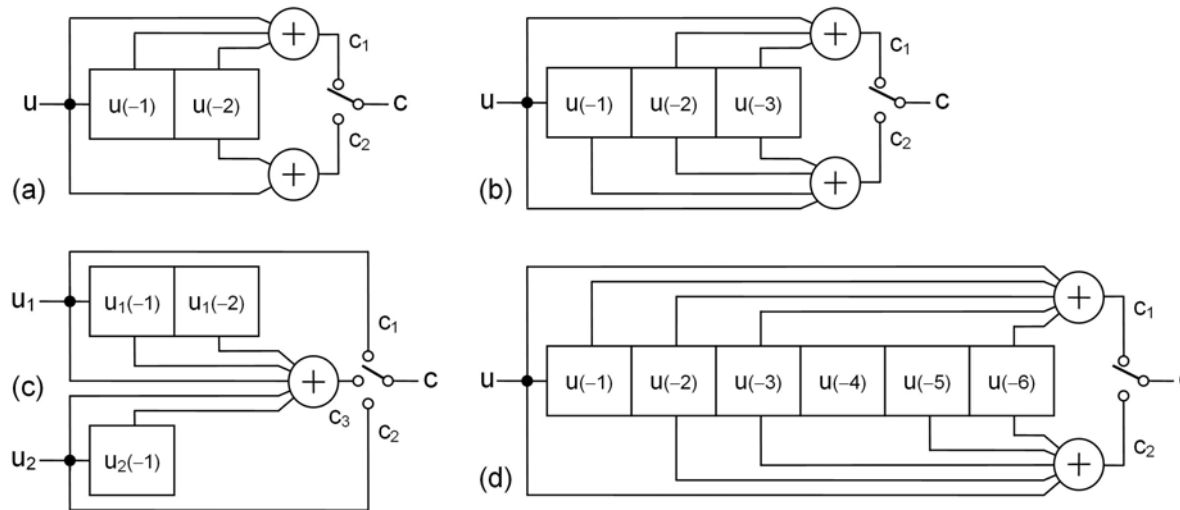


Figura 7.12

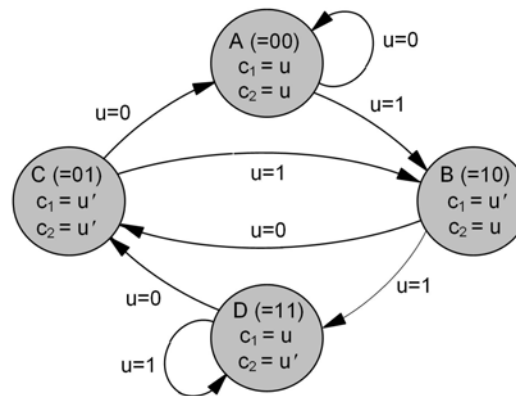


Figura 7.13

Figuras do Capítulo 7

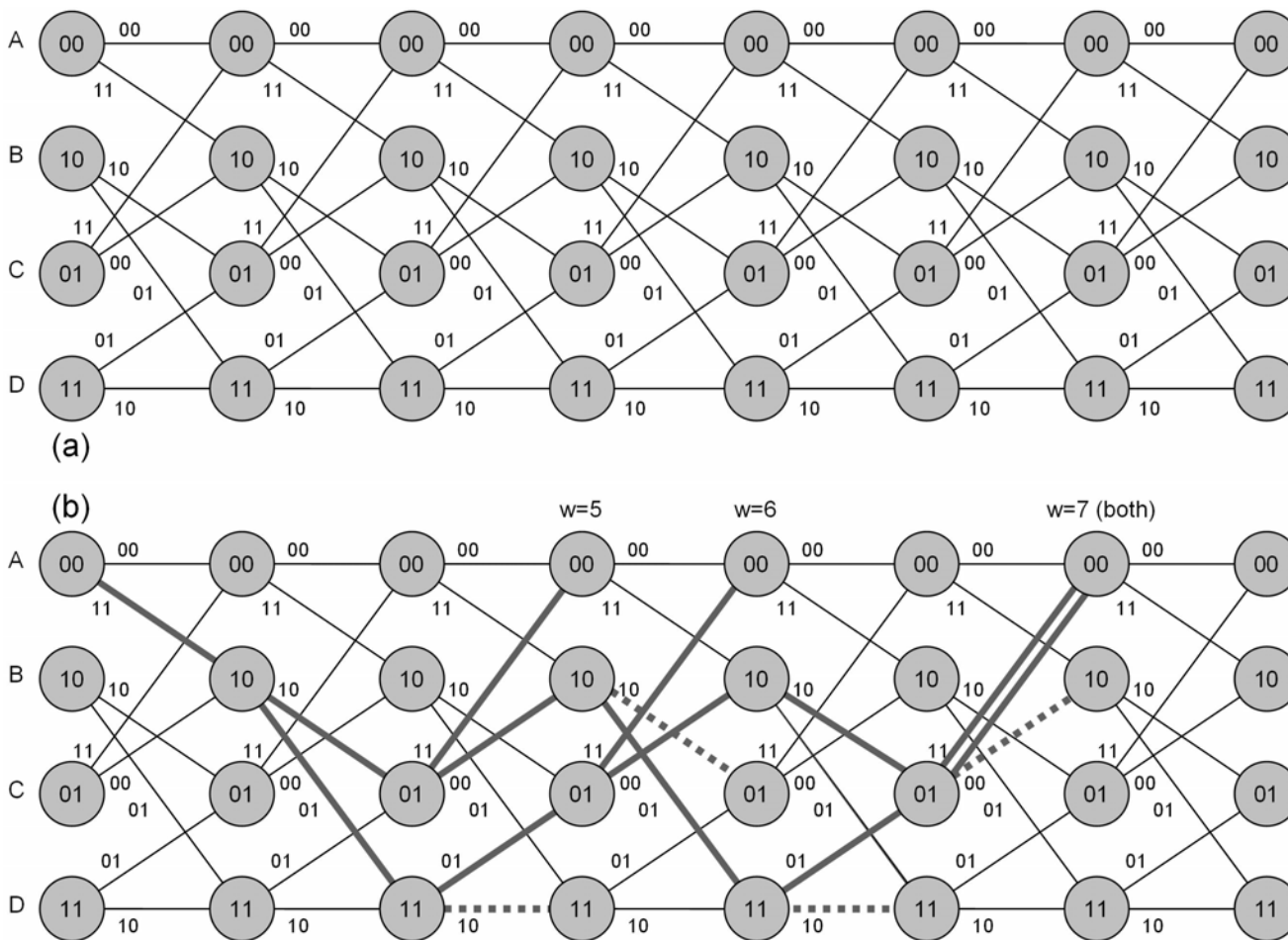


Figura 7.14

Figuras do Capítulo 7

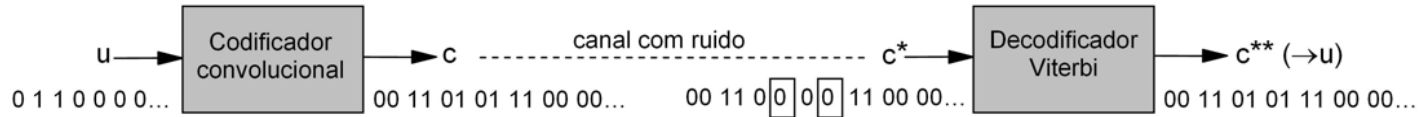


Figura 7.15

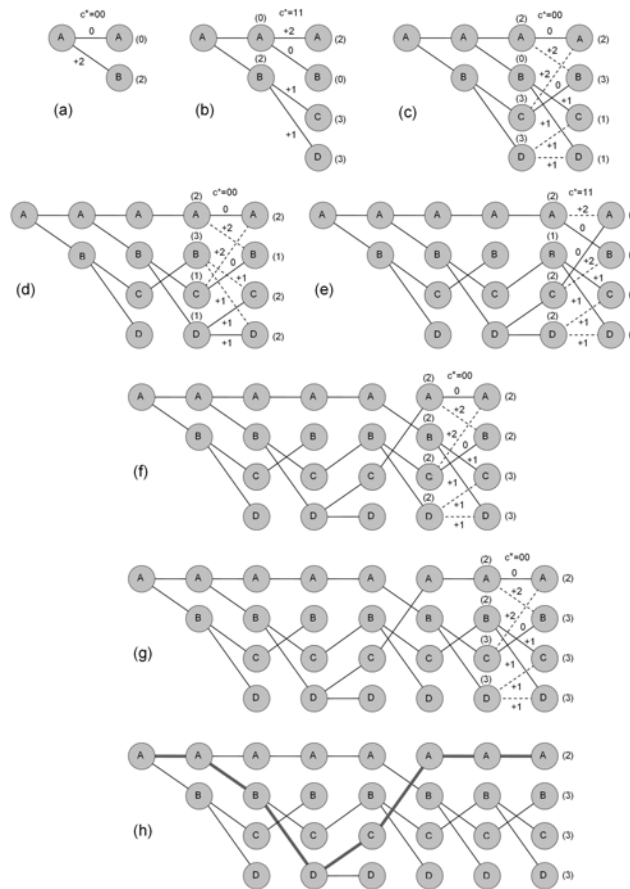


Figura 7.16

Figuras do Capítulo 7

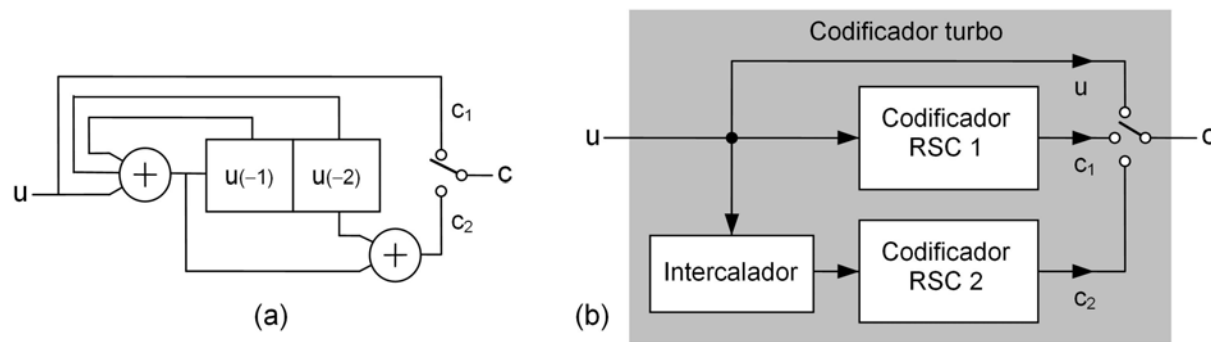


Figura 7.17

Figuras do Capítulo 7

$$H = \begin{bmatrix} 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 \\ \hline 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 \\ \hline 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

Figura 7.18

$$H = \begin{bmatrix} 1 & 1 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 & 1 & 1 \end{bmatrix}$$

(a)

(b)

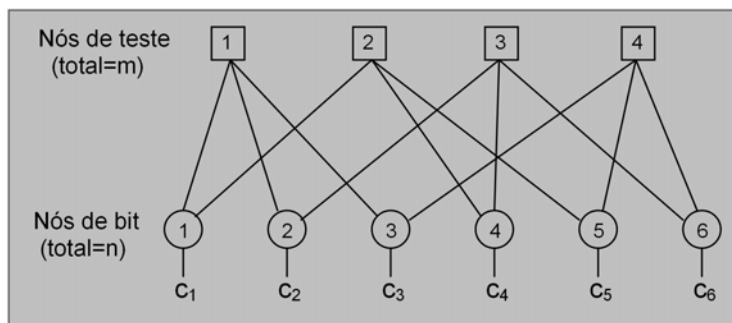


Figura 7.19

Figuras do Capítulo 7

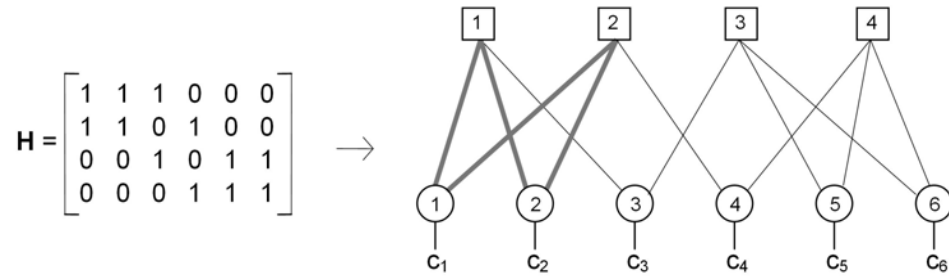


Figura 7.20

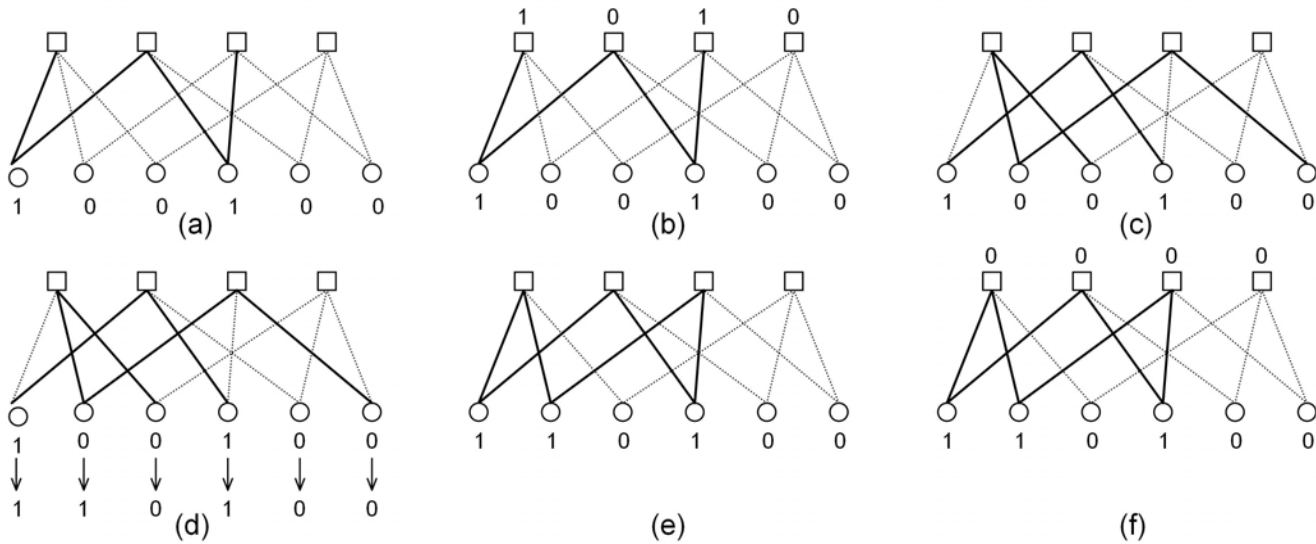


Figura 7.21