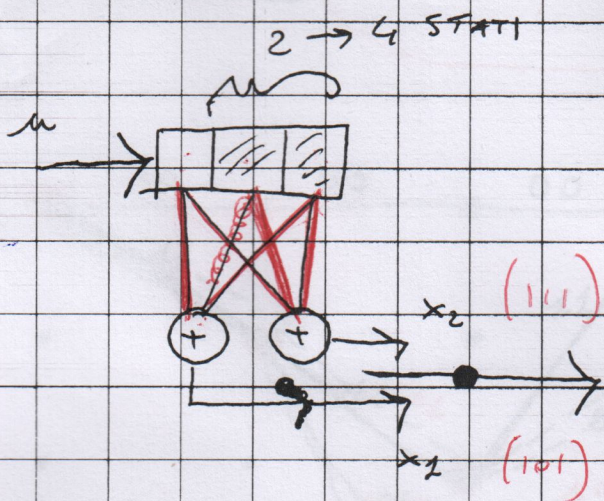


TH A: 5/4/2004

2023/01/14 (E3)

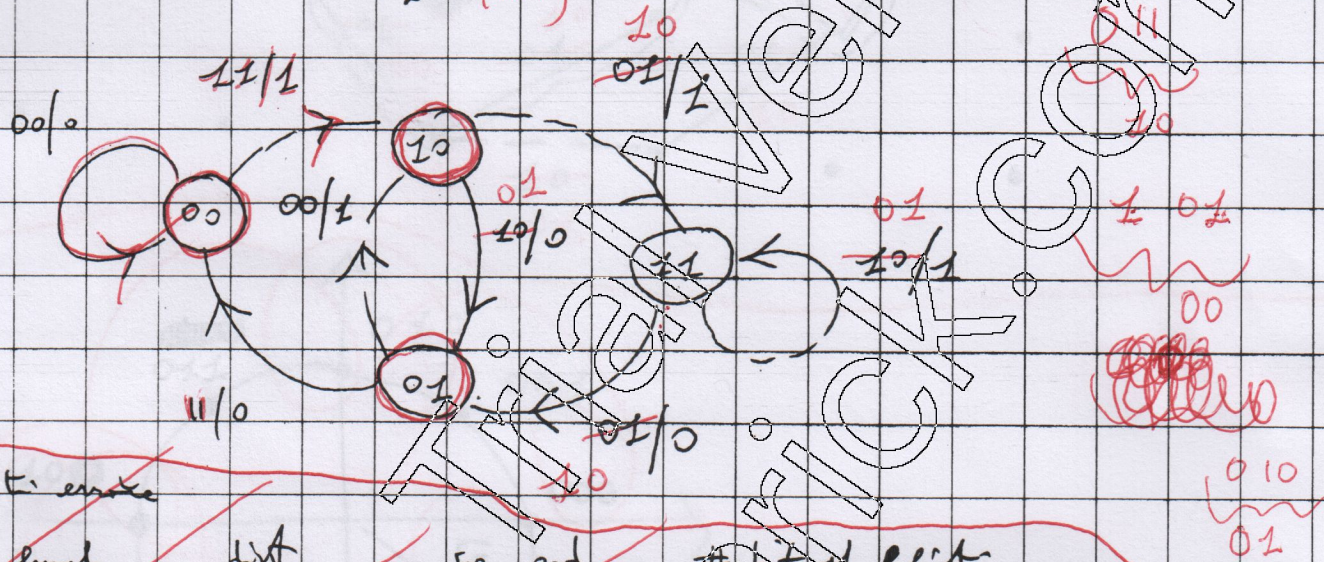
2



$(4, 5) \rightarrow 111, 101$

$(5, 7) \rightarrow 101, 111$

a)



b)

Event: error

length	LAT	Exp. and	# bit shift
3	5	100	1
4	6	11 00	2
5	6	101 00	2
5	7	111 00	3
...

$$P(\epsilon) \approx Q\left(\frac{\sqrt{2\epsilon}}{\sqrt{2}}\right) + \frac{1}{4}Q\left(\sqrt{2\epsilon}\right)$$

$$P_b(\epsilon) \approx 1 \cdot Q(\cdot) + 2 \cdot 2 \cdot Q(\cdot) + \dots$$

0 1 0 1 0 1 1 0 0
00 11 01 00 01 00 10 10 11