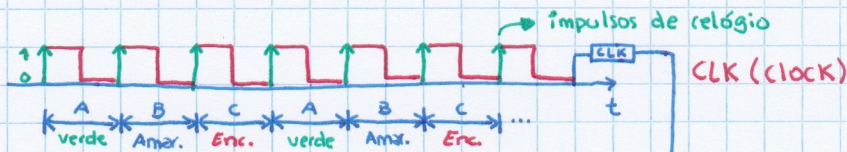


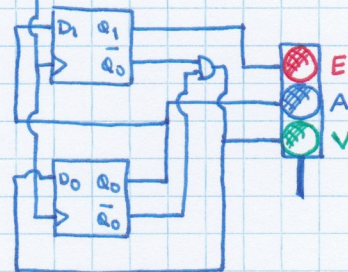
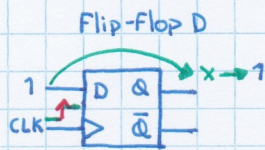
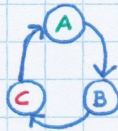
31/10/2018 - T

→ Circuitos Sequenciais



→ Diagrama de estados

A - Verde
B - Amarelo
C - Encarnado



→ Codificação de estados

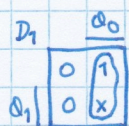
Estado	Q ₁	Q ₀	← Variáveis de estado
A	0	0	
B	0	1	
C	1	0	

→ Tabela de transição

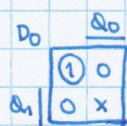
Estado Atual	Estado seguinte	Saídas V	A	E
A	B	1	0	0
B	C	0	1	0
C	A	0	0	1

→ Tabela de transição/excitação

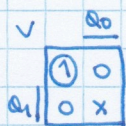
E. Atual	Entradas dos Flip-Flops	E. seguinte	Saídas
Q ₁ Q ₀	D ₁ D ₀	Q ₁ Q ₀	V A E
0 0	0 1	0 1	1 0 0
0 1	1 0	1 0	0 1 0
1 0	0 0	0 0	0 0 1
1 1	x x	x x	x x x



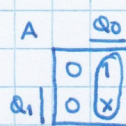
$$D_1 = Q_0$$



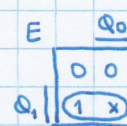
$$D_0 = \bar{Q}_1 \bar{Q}_0$$



$$V = \bar{Q}_1 \bar{Q}_0$$



$$A = \bar{Q}_0$$



$$E = Q_1$$