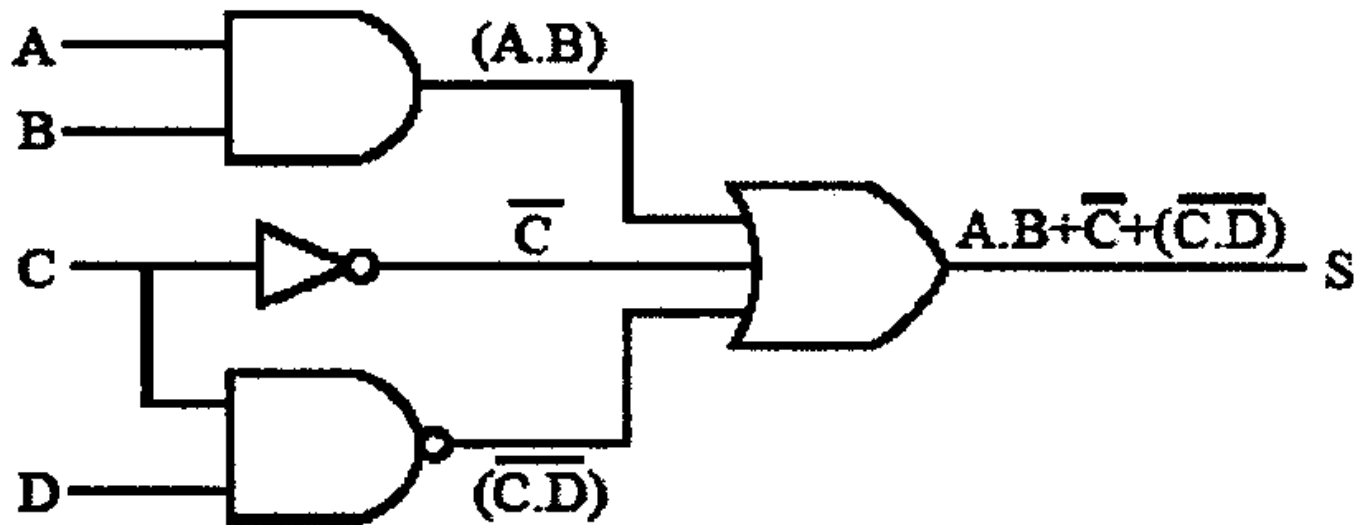
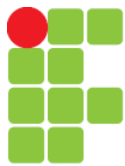


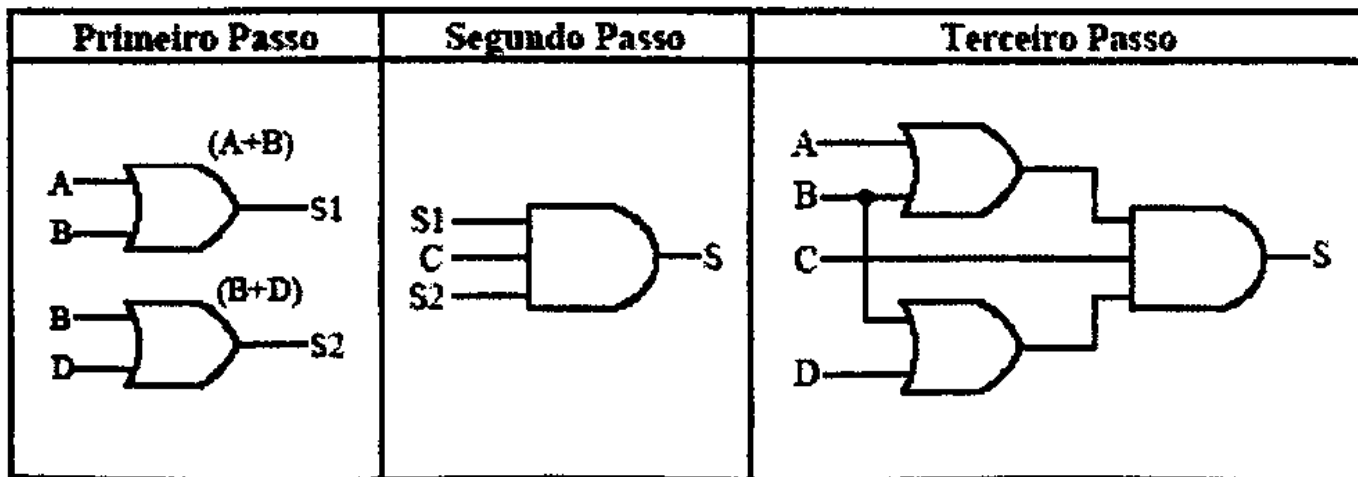
Expressão Booleana a partir do Circuito Lógico





Circuito Lógico a partir da Expressão Booleana

$$S = (A+B) \cdot C \cdot (B+D)$$



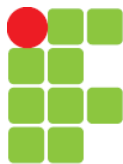
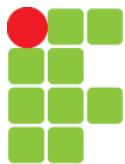


Tabela Verdade obtida da Expressão Booleana

$$S = A.\bar{B}.C + A.\bar{D} + \bar{A}.B.D$$

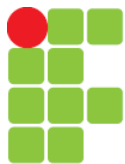
Variáveis de entrada				1º membro	2º membro	3º membro	Resultado
A	B	C	D	$A.\bar{B}.C$	$A.\bar{D}$	$\bar{A}.B.D$	Final
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0
0	0	1	0	0	0	0	0
0	0	1	1	0	0	0	0
0	1	0	0	0	0	0	0
0	1	0	1	0	0	1	1
0	1	1	0	0	0	0	0
0	1	1	1	0	0	1	1
1	0	0	0	0	1	0	1
1	0	0	1	0	0	0	0
1	0	1	0	1	1	0	1
1	0	1	1	1	0	0	1
1	1	0	0	0	1	0	1
1	1	0	1	0	0	0	0
1	1	1	0	0	1	0	1
1	1	1	1	0	0	0	0




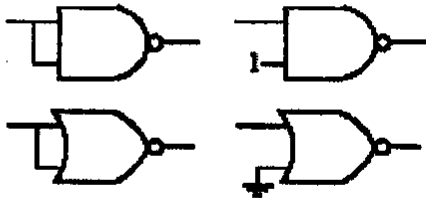








Expressão Booleana a partir da Tabela Verdade

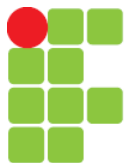
A	B	C	S	
0	0	0	0	
0	0	1	0	
0	1	0	0	
0	1	1	1	(a)
1	0	0	0	
1	0	1	1	(b)
1	1	0	1	(c)
1	1	1	1	(d)

$$S = \bar{A}.B.C + A.\bar{B}.C + A.B.\bar{C} + A.B.C$$



Equivalência entre Blocos Lógicos

BLOCO LÓGICO	BLOCO EQUIVALENTE
	
 $S = \overline{A+B}$	 $S = \overline{A} \cdot \overline{B}$
 $S = A+B$	 $S = \overline{A} \cdot \overline{B}$
 $S = \overline{A \cdot B}$	 $S = \overline{A+B}$
 $S = A \cdot B$	 $S = \overline{A+B}$



Avaliação de Eletrônica Digital

Exercícios Apostila Cap. II

(Individual)

Relatório Laboratório (Grupo)