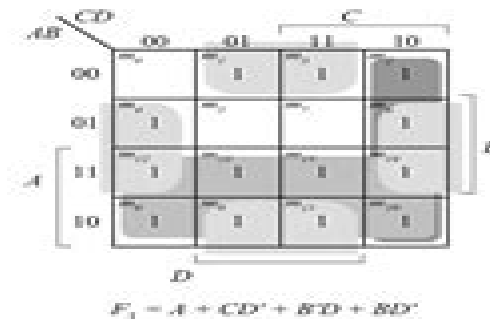
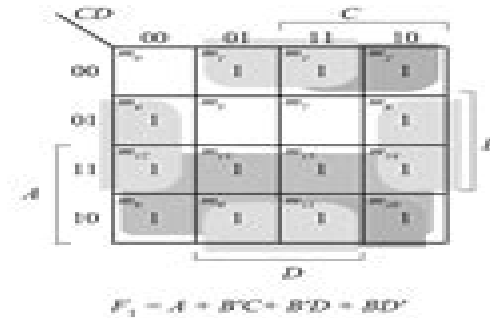
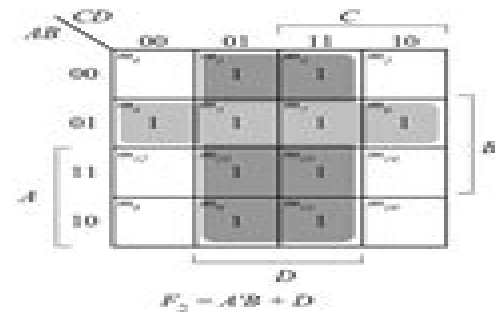


## CHAPTER 4

- 4.1 (a)  $T_1 = B'C$ ,  $T_2 = A'B$ ,  $T_3 = A + T_1 = A + B'C$ ,  
 $T_4 = D \oplus T_2 = D \oplus (A'B) = A'BD' + D(A + B') = A'BD' + AD + B'D$   
 $F_1 = T_3 + T_4 = A + B'C + A'BD' + AD + B'D$   
 With  $A + AD = A$  and  $A + A'BD' = A + BD'$ :  
 $F_1 = A + B'C + BD' + B'D$   
 Alternative cover:  $F_1 = A + CD' + BD' + B'D$

$$F_2 = T_2 + D = A'B + D$$

ABCD	$T_1$	$T_2$	$T_3$	$T_4$	$F_1$	$F_2$
0000	0	0	0	0	0	0
0001	0	0	0	1	1	1
0010	1	0	1	0	1	0
0011	1	0	1	1	1	1
0100	0	1	0	1	1	1
0101	0	1	0	0	0	1
0110	0	1	0	1	1	1
0111	0	1	0	0	0	1
1000	0	0	1	0	1	0
1001	0	0	1	1	1	1
1010	1	0	1	0	1	0
1011	1	0	1	1	1	1
1100	0	0	1	0	1	0
1101	0	0	1	1	1	1
1110	0	0	1	0	1	0
1111	0	0	1	1	1	1



# Computer Systems Design Solutions Manual

**James HUNTON, Steve G. SUTTON, Ulric  
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