Brian Faure DLO HW #3 Section #4 RUJO: 150003563
(C) FE EURYS 102 345 K7 D 113)
#1) Inderent the following circuits in a head-free manner
1 1 + - 1 0 D 1 1 XU
a) F(A,B,C) = B C+ AC (AB 00 01 11 19)
This is the prime included to include 1 (1) 100
This is the prime inplicant to include 1 ()
to eliminate firming hazords
Neu Moural Sum - BC+AC+AB)
b.) F(A,B,C,D) = 5 (0,4,5,6,7,9,11,13,14) co 00 01 11 10
100 00 (100 O
F= ĀCO+ĀB+ BCO+ACO 01 01 0 10 0 1 0 1 0 1 0 1 0 1 0 1 0 1
20 +24 +xn = 3-10 10 10 10 10 10 10 10 10 10 10 10 10 1
#2) Draw K-Map, # of Prine Implicents, Distinguished One-Cells, essential
primes, and minimal sum.
a) Use K-rom to fed more in food of Smile of Smile
a) F= Euxyz (0,1,57,8,9,13) yz wx 00 01 11 10
-3 Aime Implicants 00 (1x)
-4 Distinguished One Cells 0 1 D 1 + D - 3 Essential Primes 11 0 1 0 0
1F= X'T'+ T'Z+ UXZ 10000
[F=X1+72,0x2]
L) G-C - 12172 (78 13 14 15) Wex
b.) F= Eux+2 (0, 1, 2, 3, 6, 7, 8, 13, 14, 15) +2 00 01 11 10 -5 Prime Indicates 00 10 0 0 0
110111011101110111011101110111011101110111011101110111011101111
- 4 Uistinguished the-Cells - 4 Essential Prime Implicants 1 1 1 1 1 0
10 1 1 71 0
F= UX + XY+ UXZ+ ZYZ
I wa XI WAZIXIO



