

Solution Manual for Fundamentals of Logic Design 7th Edition by Roth

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(a) In both cases, if $X = 0$, the transmission is 0, and if $X = 1$, the transmission is 1.



2.4 (a) $F = [(A \cdot 1) + (A \cdot 1)] + E + BCD = A + E + BCD$

2.5 (a) $(A + B)(C + B)(D' + B)(ACD' + E)$
 $= (AC + B)(D' + B)(ACD' + E)$ By Dist. Law
 $= (ACD' + B)(ACD' + E)$ By Dist. Law
 $= ACD' + BE$ By Dist. Law

2.6 (a) $AB + CD' = (AB + C')(AB + D')$
 $= (A + C')(B + C')(A + D')(B + D')$

2.6 (c) $A'BC + EF + DEF = A'BC + E(F + DF)$
 $= A'BC + E(F + D) = (A'BC + E)(A'BC + F + D)$
 $= (A' + E)(B + E)(C + E)(A' + F + D)$

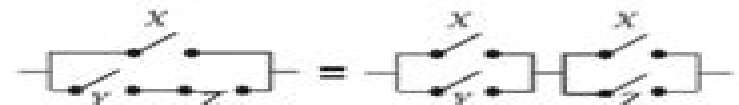
2.6 (e) 2.8 (a)

2.8 (c)

2.7 (a)



2.2 (b) In both cases, if $X = 0$, the transmission is YZ , and if $X = 1$, the transmission is 1.



2.4 (b) $Y = (AB' + (AB + B))B + A = (AB' + B)B + A$
 $= (A + B)B + A = AB + B + A = A + B$

2.5 (b) $(A' + B + C)(A' + C' + D)(B' + D')$
 $= (A' + C' + BD)(B' + D')$
 [By Distributive Law with $X = A' + C'$]
 $= A'B' + B'C' + BBD' + A'D' + C'D' + BDD'$
 $= A'B' + A'D' + C'B' + C'D'$

2.6 (b) $WX + WY'X + ZYX = X(W + WY' + ZY)$
 $= X(W + ZY)$ [By Absorption]
 $= X(W + Z)(W + Y)$

2.6 (d) $XYZ + W'Z + XQ'Z = Z(XY + W' + XQ')$
 $= Z[W' + X(Y + Q')]$
 $= Z(W' + X)(W' + Y + Q')$ By Distributive Law
 $(B \quad (AC + C') + A'C$
 $+ \quad = D'(A + C') + A'C$ By Elimination Theorem
 $F \quad = (D' + A'C)(A + C' + A'C)$
 $+ \quad = (D' + A')(D' + C')(A + C' + A')$
 $D) \quad$ By Distributive Law and Elimination Theorem
 $(C \quad = (A' + D')(C + D')$
 $+ \quad (A + B + C + D)(A + B + C + E)(A + B + C + F)$
 $F \quad = A + B + C + DEF$
 $+ \quad$ Apply second Distributive Law twice
 $D) \quad$

ACD'
 $+ CD'$
 $+ A'C$
 $= D'$

D
 E
 F

Logic Circuit Roth Solution Manual

Yicheng Fang



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