

# Solution Manual for Fundamentals of Logic Design 7th Edition by Roth ISBN 1133628478 9781133628477

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



2.3

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

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)  $AB + C'D' = (AB + C')(AB + D')$   
 $= (A + C')(B + C')(A + D')(B + D')$

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

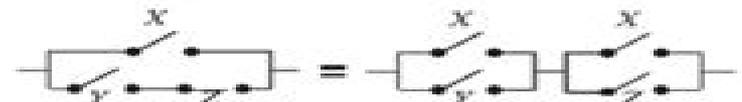
2.6 (e) 2.8 (a)

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)  $WX + W'YX + ZYX = X(W + W'Y + Z)$   
 $= X(W + Z)$  [By Absorption]  
 $= X(W + Z)(W + Y)$

2.6 (d)  $XYZ + WZ + XQZ = Z(XY + W + XQ)$   
 $= Z[(W + X)(Y + Q)]$   
 $= Z(W + X)(W' + Y + Q)$  By Distributive Law  
 (B  $(AC + C') + AC$

+  $= D'(A + C') + AC$  By Elimination Theorem  
 $F = (D' + AC)(A + C + AC)$   
 +  $= (D' + A)(D' + C)(A + C + A)$   
 $D)$  By Distributive Law and Elimination Theorem  
 $(C = (A' + D')(C + D)$   
 +  $(A + B + C + D)(A + B + C + E)(A + B + C + F)$   
 $F = \underline{A + B + C + DEF}$   
 + Apply second Distributive Law twice  
 $D)$

$ACD'$   
 $+ C'D'$   
 $+ AC$   
 $= D'$

$D$   
 $E$   
 $F$

# Fundamentals Of Logic Design Roth Solution Manual

**Joacim Rocklöv**



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