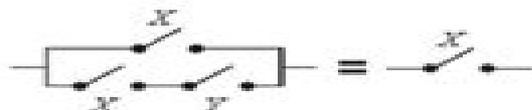


Unit 2 Solutions

Unit 2 Problem Solutions

2.1 See FLD p. 731 for solution

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



2.3 Answer is on FLD p. 731

2.4 (a)  $F = [(A1) + (A1)] + F + BCD = A + F + BCD$

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

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

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

2.6 (e)  $ACD' + CD' + AC = D'(AC + C') + AC$   
 $= D'(A + C) + AC$  By Elimination Theorem  
 $= (D' + A)(A + C' + AC)$   
 $= (D' + A)(D' + C)(A + C' + A)$   
 By Distributive Law and Elimination Theorem  
 $= (A' + D)(C + D)$

2.7 (a)  $(A + B + C + D)(A + B + C + E)(A + B + C + F)$   
 $= A + B + C + DEF$   
 Apply second Distributive Law twice

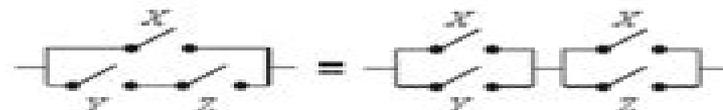


2.8 (a)  $[(AB)' + CD]' = AB(C'D)' = AB(C + D)$   
 $= ABC + ABD'$

2.8 (c)  $((A + B)C)'(A + B)(C + D)'$   
 $= (AB + C)(A + B)C'A' = (AB + C)ABC'$   
 $= ABC'$

2.9 (a)  $F = [(A + B)' + (A + (A + B))](A + (A + B))'$   
 $= (A + (A + B))'$   
 By Elimination Theorem with  
 $X = (A + (A + B))' = A(A + B) = AB$

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  $X = A' + C'$ )  
 $= AB' + B'C' + BBD + AD' + CD' + BDD'$   
 $= AB' + AD' + CB' + CD'$

2.6 (b)  $WX + WYX + ZYX = X(W + WY + Z)$   
 $= X(W + Z)$  (By Absorption)  
 $= X(W + Z)(W + Z)$

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

2.6 (f)  $A + BC + DE$   
 $= (A + BC + D)(A + BC + E)$   
 $= (A + B + D)(A + C + D)(A + B + E)(A + C + E)$

2.7 (b)  $WXYZ + FXYZ + UXYZ = XYZ(W + F + U)$   
 By first Distributive Law



2.8 (b)  $[A + B(C' + D)]' = A[B(C' + D)]'$   
 $= A[B'(C' + D)] = A(B' + CD)$   
 $= AB' + ACD'$

2.9 (b)  $G = \{[(R + S + T)'PT(R + Sy)T]T\}'$   
 $= (R + S + T)'PT(R + S)T + T'$   
 $= T' + (RST)P(RS)T = T' + PRSTT = T'$

# Fundamentals Of Logic Design Problem Solutions

**RJ Alexander**



## **Fundamentals Of Logic Design Problem Solutions:**

## Decoding **Fundamentals Of Logic Design Problem Solutions**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Fundamentals Of Logic Design Problem Solutions**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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