

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

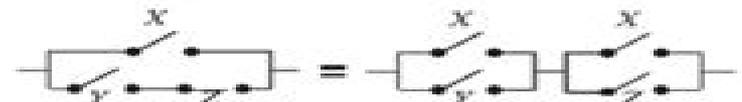
2.6 (e) 2.8 (a)

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

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

D
 E
 F

Fundamentals Of Logic Design Roth Solution Manual

Wenbin Ji



Fundamentals Of Logic Design Roth Solution Manual:

This book delves into Fundamentals Of Logic Design Roth Solution Manual. Fundamentals Of Logic Design Roth Solution Manual is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Fundamentals Of Logic Design Roth Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Fundamentals Of Logic Design Roth Solution Manual
 - Chapter 2: Essential Elements of Fundamentals Of Logic Design Roth Solution Manual
 - Chapter 3: Fundamentals Of Logic Design Roth Solution Manual in Everyday Life
 - Chapter 4: Fundamentals Of Logic Design Roth Solution Manual in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Fundamentals Of Logic Design Roth Solution Manual. This chapter will elucidate the essential principles that need to be understood to grasp Fundamentals Of Logic Design Roth Solution Manual in its entirety.
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 6. In chapter 5, the author will draw a conclusion about Fundamentals Of Logic Design Roth Solution Manual. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Fundamentals Of Logic Design Roth Solution Manual.

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Fundamentals Of Logic Design Roth Solution Manual Introduction

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