数电第二章作业 1904/0/02 方亮 自己加以旧胜

2.2.(1) AB'TBTA'B = AB' + (A'+A)BTA'B = A(B'+B)TA'B = A+A'B = A+B

(4) 沉E=左式, $F= \overline{a}$ 式. $E' = (A + B + C) \cdot (A' + B'C') \cdot (B' + C') = (A + B + C) \cdot (A'B' + A'BC')$ = . AB'C' + A'BC' + A'B'C = [(AB'C' + A'B'C') + A'BC')']' to 成之.

2.6.(a)
$$Y = [(AB')'(A'B)']' = ABB$$

(b) $Y = [(ABB) + (BC)]' = ABC'$

2,8	A	B	C	/ Y
	0	0	0	0
	0	0	- [0
	0	1	0	0
	0	1	1	
	1	0	0	0
	i	0	1)
	1	1	0	
	1	1	1	0

Y=A'BC+AB'C+ABL'

210.(1) Y=A'B(+ AC(B+B')+(A+A')B'C = A'B'C+A'BC+ AB'C+ABC.

- (2) Y= AB'C'D+(ATA') B(D+A'(B+B')(C+C')D = A'B'C'D+A'B'C D+A'BC'DTA'BCD
 + AB'C'D+ABCD.
- 13) Y=AB'C'D'+AB'C'D+AB'CD'+AB'CD+ABC'D+ABCD'+ABCD
 +A'BC'D'+A'BCD'+A'BCD + A'B'CD
- (4) Y= ABC'D'+ABCD+ABCD'+ABCD+A'BCD+A'BCD+AB'CD+A'B'CD

2-12(1) ACO+0'= D'

(3) AB'+AC+BC = AB'+13C

B E'F'+E'F TEF'TEF=1

17) A'B(+(A+13')(= A'B(+A(B+13')(+B'(=!A'+A)B(+AB'(+B'(=C

2-13(2) Y=AB'C+A'+B+C' = AB'C+A'(BC+B'C'+BC'+B'C) +B+C'-= B'C+B+C'=B'C+B(C+C')+C'=C'+C=1

(4) Y=AB'CI) +ABI)+AC'D=AB'CD+AB(D+ABC'D+ABC'D) = ACD+A('D=AD

(BY=A((C'D+A'B)+B(((13'+AD)'+CE)' = BC (B'+AD)·(C+E')=.ABCDE'

(8) Y = A + B+c')' (A+B+c) (A+B+c) = A + B'c (B+c)(B+c) = A+B'C

49 Y = A C+AC'D+AB'E'F+B(D ØE)+BC'DE'+BC'D'E +ABE'F = AC+AC'D+A(B'+B)E'F+B(DOE) +BC'(DOE) = AC+AC'D+AE'F+B(DOE) = AC+ACD+AC'D+AE'F+B(DOE) =ACTADTAEFTB(DOE)

2-1511) Y1=C+ABC = C . 12) Y2=AB'C+BC+A'BC'D

00 01/11/10

FABD+BC+AC

<u></u>	_			' '	$\overline{}$
W.	00	01	11	10	T
.00					t
01				7	
11				M	
10			V	DI	•

13) Y3= \(\sum_{12,3,7}) = A'C + A'B + BC

ABO	00	อเ	11	10
0	0		0	
T	V	0	U	0:

14) Y4= Em(0,1,2,3,4,6,8,9,10,11.14) = (BD+ABC) = A'D'+CD'+B'

ABCIX	00	01	11	10	
00			1	1	
01	1	10	6	1	
Til	0	TO	0/	1	
61	1		1	1	_

2-16(3) Y=A'B'+BC'+A'+B'+ABC = 1

R	900	01	111	10
D	01	1	1	1
1	1	1	1	1

15) Y=AB'C'+A'B'+ A'D+C+BD = (BC'D') = B'+C+D.

F	KH					,
1	AN	00	01	11	10	
1	00	1	1	1	1	
	01	0		1	1	
	11	0		I	1	-
	10	1	1	1	T	

2-18 (G) Y=((AB'C)'·(BC')')' = AB'C+BC'.

(b) ~ = ((A'+C)'+(A+B')'+(B+C')')'=. A'B'C'+ABC

(C) Y= ((AB')'(A·D'.C)')' = AB'+AD'C.

12= ((AB').(AC'D').(A'C'D)'(ACD)')' = AB'+4C'D'+A'C'D+ACD

Id) $Y_1 = ((AB + (A \oplus B)C)')' = AB + AB' (C + A'BC = AB + AC + BC)$ $Y_2 = (A \oplus B) \oplus C = (A'B + AB') \oplus C = (A'B + AB') C' + (AB + AB') C'$ = A'BC' + AB'C' + ABC + A'B'C'

2-20 $Y_1 = AB'C' + ABC + A'B'C + A'BC' = A' + B'C' + BC'$ (A'B'C' + A'BC = 0)

ABC	00	01	11	10
0	Ø	1-1	X	
1	V	0	V	Q.

(3)
$$Y_3 = \sum_{m}(35.6,7.10) + d(0,1,2,4,8)$$

= $A' + B'D'$

ARC	00	01	11	10
0	M	1	0	
(U	X	0	X

AR	00	01	11	10
00	B	X	I	X
0/	X	1	L	1
11	0	0	0	0
10	X	д	0	

2-24 ~	_				ı
' 11	980	00	01	Ίĺ	10
	00	J	A	0	0
	01	O	0	0	О
	11	1	1	0	\bigcap
	10	X	1		V

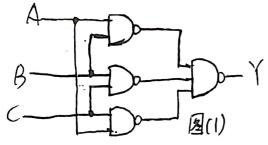
AR	00	01)	10
00	U		1	7
01	0	0	V	D
11	Ô	0	0	
10	3	0	0,	V

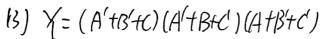
Y2

独立公局 Yi= A C'+AD'+B'C'

Y2 = A'B'+CD'+AC

到用对用顶低了=A'B'C'+AC+ACD' Y= A'13'C'+A'C+ACD'





= (A'+B'C'+BC)(A+B'+C')

= ABC+A'B'+A'C'+B'C'

= ((ABC)'(A'B')'(A'C')'(BC')')'.

(4)=Y= AB+AC'=((A(BC)')')'

