

@考试必备

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历年真题演练—考前冲刺

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祝您逢考必过，成功上岸，一战成名

第一章

1.8

- (1) 42.5 (2) 25.25 (3) 2.3125 (4) 0.78125 (5) 4.125

1.11

- (100111001)₈₄₂₁ (10001011)_B (213)_O (8B)_H (10001101100)_{EX-3} (100111100)₅₄₂₁

1.17

- (1) 010011 010011
 (2) 101110 101111
 (3) 11001110 10110010
 (4) 010111011 010111011

第二章

2.1

- (1) $A+C$
 (2) $\overline{AB} + \overline{AC}$
 (3) 1
 (4) $YZ + \overline{XZ}$
 (5) $B\overline{C} + \overline{A}C\overline{D} + \overline{A}B\overline{D}$

2.4

- (1) $\Sigma_m(1, 4, 5, 6)$
 (2) $\Sigma_m(0, 1, 7)$

(3) $\Sigma m(4, 5, 10, 11, 13, 14)$

(4) $\Sigma m(0, 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)$

2.5

(1) $\Pi M(0, 2, 4, 6, 7)$

(2) $\Pi M(1, 2, 6, 7)$

(3) $\Pi M(10)$

(4) $\Pi M(4, 6, 7, 9)$

2.6

(1) $\bar{B} + AC$ (2) $\bar{Z} + XY$ (3) $\bar{B}D + B\bar{D}$ (4) $\bar{X}Y + \bar{X}\bar{Z} + W\bar{Y}\bar{Z}$

2.7

(1) $(A + \bar{B})(\bar{B} + C)$ (2) $(X + \bar{Z})(Y + \bar{Z})$ (3) $(\bar{B} + \bar{D})(B + D)$

(4) $(Y + \bar{Z})(W + \bar{X})(\bar{X} + \bar{Y})$

2.8

(1) $A\bar{B} + \bar{A}B$ (2) $\bar{W}Z + WX\bar{Z}$ (3) $X\bar{Y} + \bar{X}YZ$

(4) ① $C + \bar{A}\bar{D} + BD + \bar{A}\bar{B}$ ② $C + AB + \bar{A}\bar{D} + \bar{A}\bar{B}\bar{D}$

*注：卡诺图化简所得的结果并不是唯一的

2.22

(3) $F = \overline{AC} + \overline{AB} = \overline{\overline{AC} + \overline{AB}} = \overline{AC} + \overline{AB}$

2.24

(2) 有一式错误

2.34

$$F = \sum m(2, 4, 5, 6) \quad F = \prod M(0, 1, 3, 7) \quad \overline{F} = \sum m(0, 1, 3, 7) \quad \overline{F} = \prod M(2, 4, 5, 6)$$

$$F^* = \sum m(0, 4, 6, 7) \quad F^* = \prod M(1, 2, 3, 5)$$

2.36

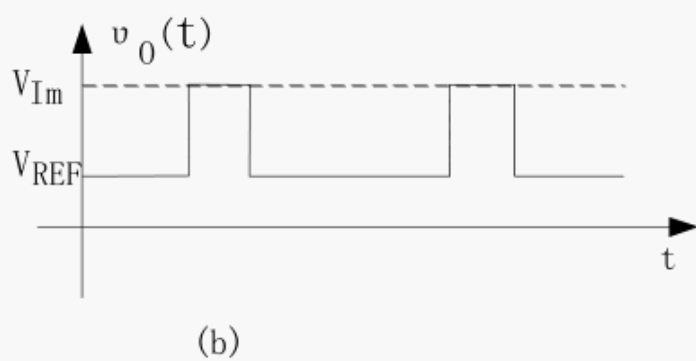
$$P = \overline{BCE} + \overline{ABDE} + ACDE + \overline{BCDE} + \overline{ACDE} + \overline{ABCE} + \overline{ABCDE}$$

ABC		C				A				P
		000	001	011	010	100	101	111	110	
DE	00	0	4	12	8	16	20	28	24	E
	01	1	5	13	9	17	21	29	25	
	11	3	7	15	11	19	23	31	27	
	10	2	6	14	10	18	22	30	26	
		B				B				

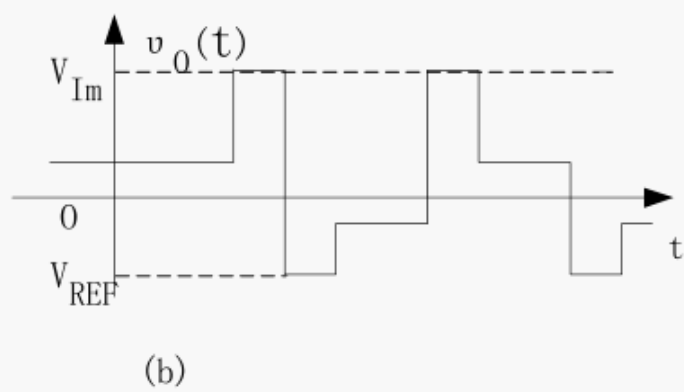
图P2-9

第三章

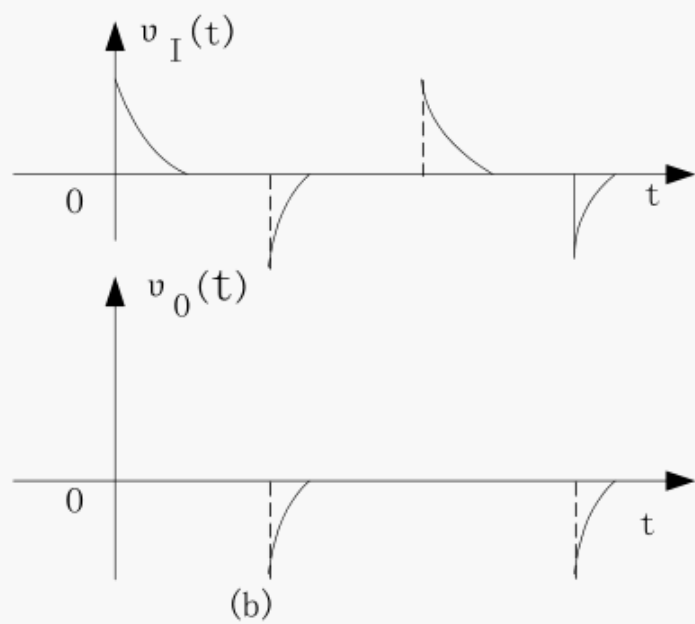
3.1



3.2



3.3



3.8

(a), (b) 都为 $F = A \oplus B$

3.9

$$P1 = X1 + X2 + \bar{Y}1\bar{Y}2 \quad P2 = Y1 + Y2 + \bar{X}1\bar{X}2 \quad P3 = \overline{ABC} \cdot (D + \bar{E})$$

3.10

三态输出高阻时，后一级门的输入端悬空，对 TTL 来说悬空为逻辑 '1'

$$P1 = F(AB + C) + \bar{F}(AB + C + \overline{D \oplus E})$$

$$P2 = (AB + E + F + \bar{J})D + (AB + E + F + \bar{J} + C)\bar{D}$$

3.11

$$\begin{cases} C=0 & P1 = P2 \oplus F = \overline{AB} \oplus F \\ C=1 & P1 = Z \end{cases}$$

$$P2 = \overline{CAB} + C\bar{D}\bar{E}$$

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