

2. (a) $A=0, B=0, C_{in}=0$ (b) $A \text{ or } B \text{ or } C_{in}=1, \text{ rest are } 0$

(c) $A = B = C_{in} = 1$ (d) A or B or $C_{in} = 0$, rest are 1

3. (a) $\Sigma = 1$, Count = 0 (b) $\Sigma = 1$, Count = 0

(C) $\Sigma = 0$, $Cont = 1$ (d) $\Sigma = 1$, $Cont = 1$

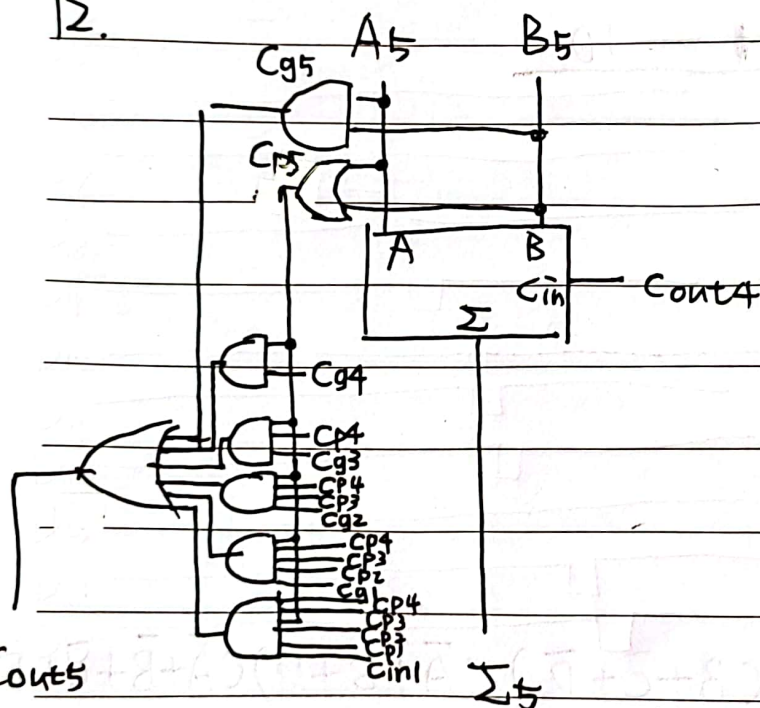
6. (a) Subtract B from A.

(b) calculate $A + B$

IO. No

$$11. 40 + 25 \times 6 + 35 = 225 \text{ ns}$$

12.



19. $X = A_3 \bar{A}_2 A_1 + A_3 A_2 \bar{A}_1 \bar{A}_0 + \bar{A}_3 \bar{A}_2 \bar{A}_1 A_0$

2/, see book

25. 1694480

24 | 000

26.



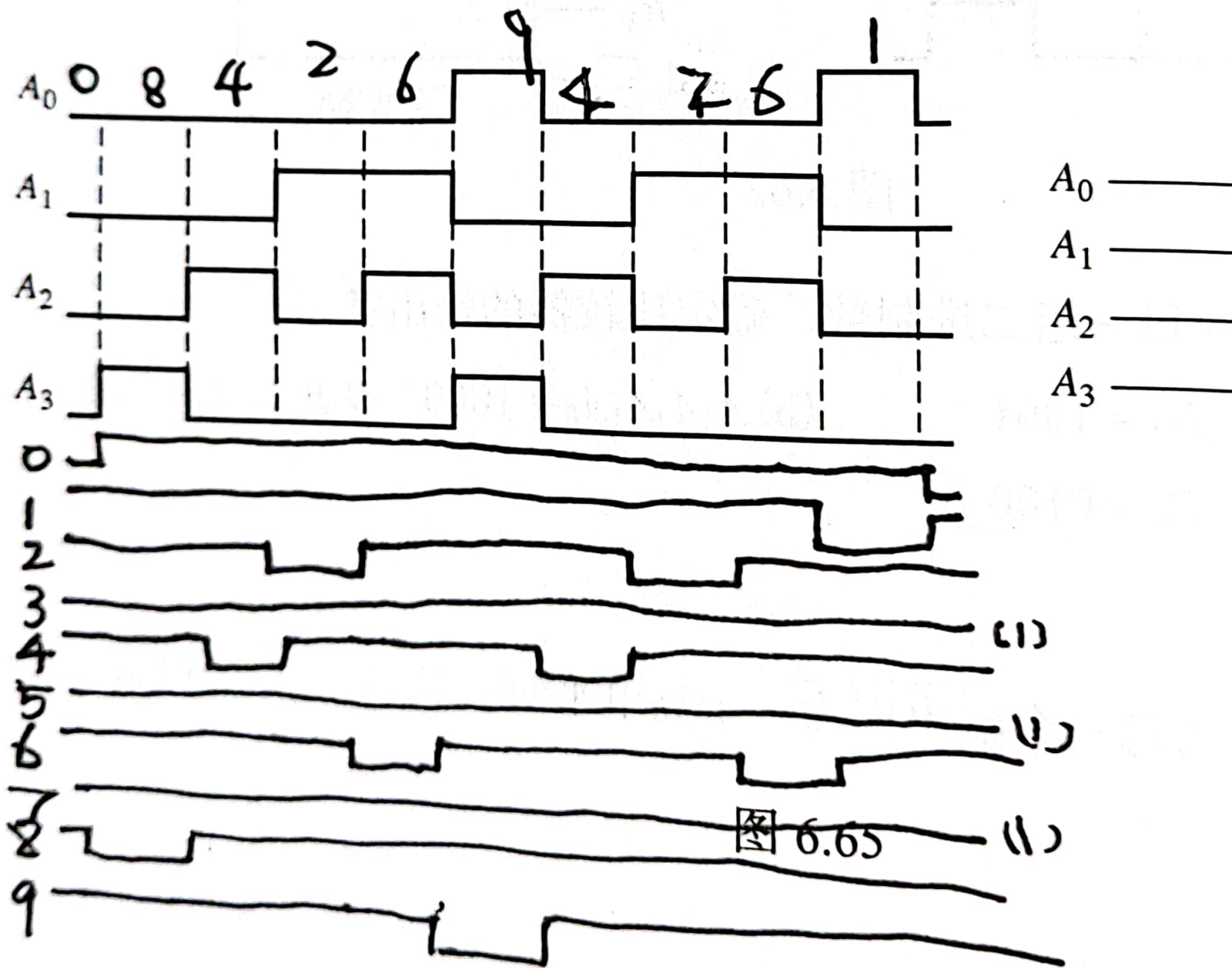
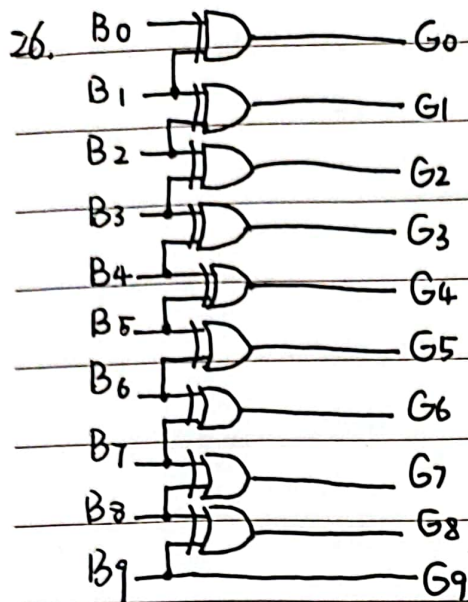


图 6.65



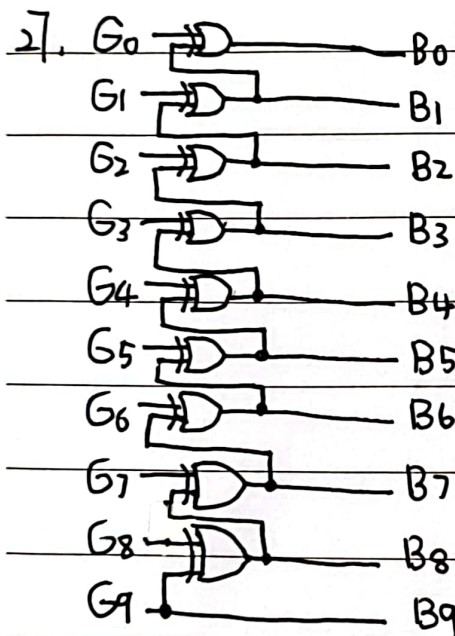


(a) 1111111111

(b) 1000010000

(c) 0000001001

(d) 1000000000



(a) 1100000000

(b) 0010001000

(c) 1010000101

(d) 0000000001

28. $Y = 1$

30. See book



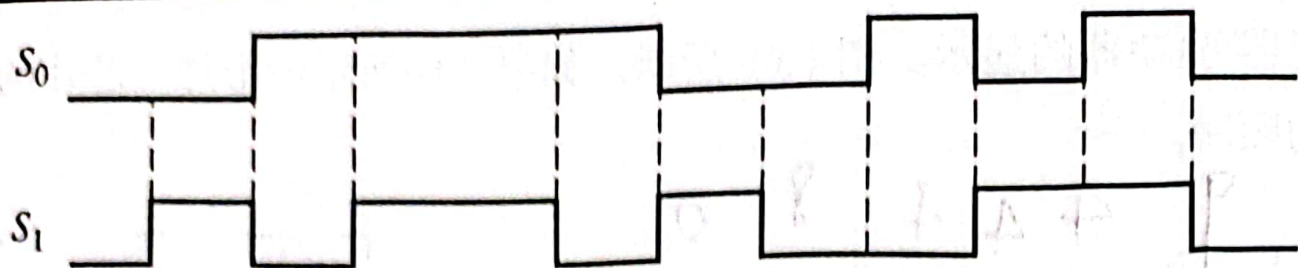


图 6.68

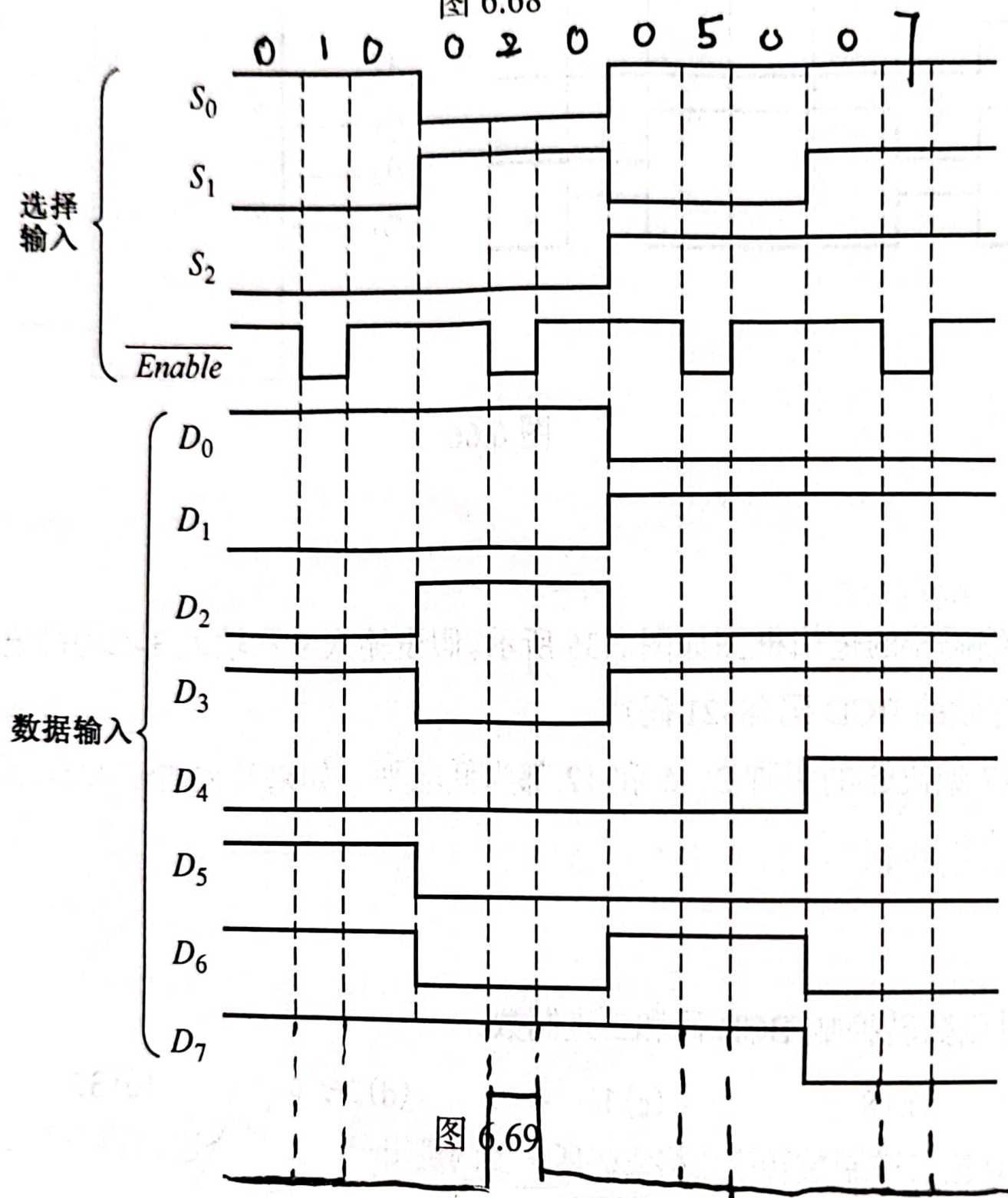
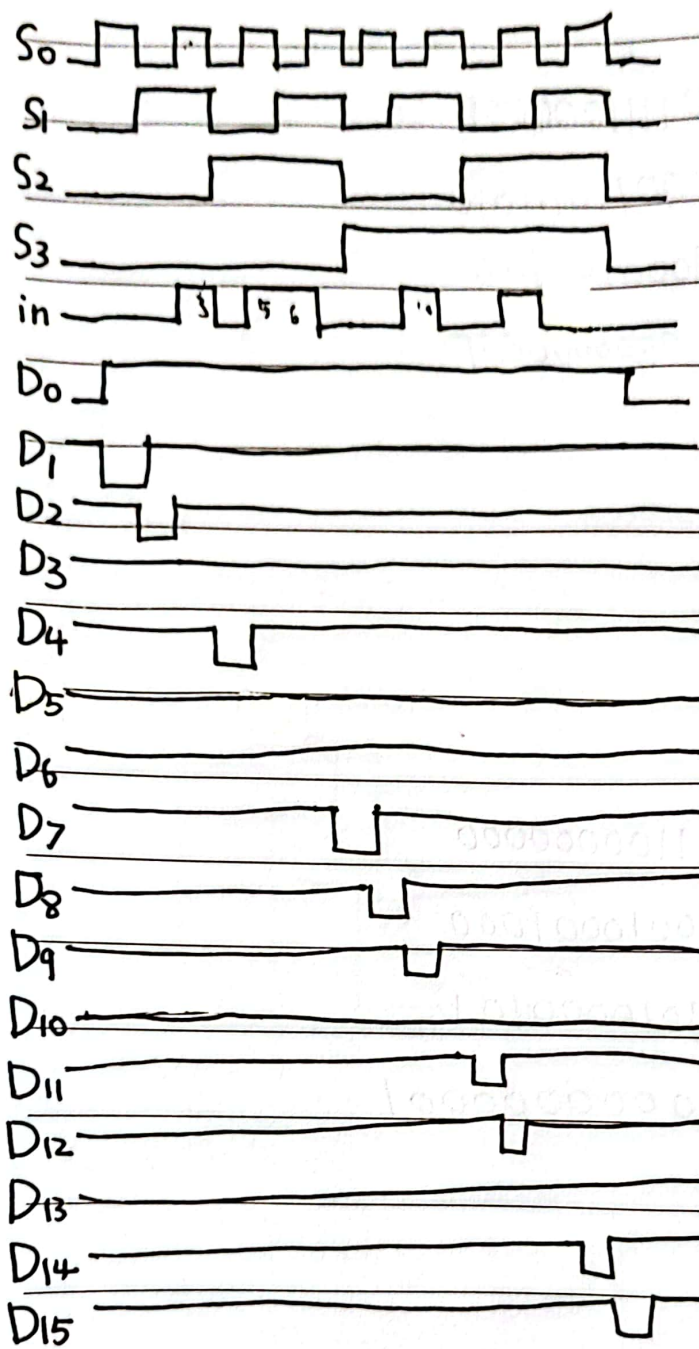


图 6.69





32. see book, 5 times

33. See book

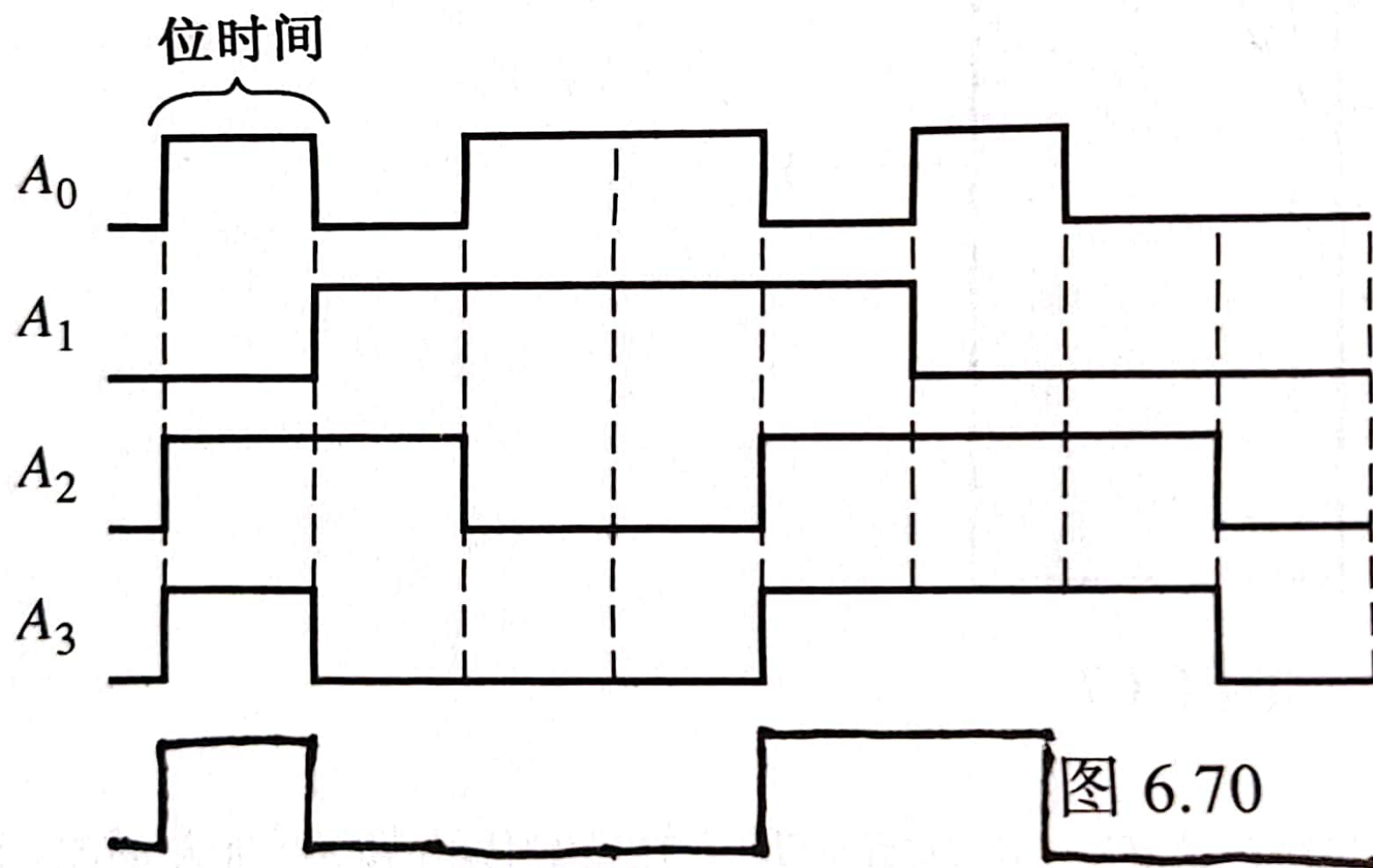


图 6.70



第 6 章 组合逻辑电路

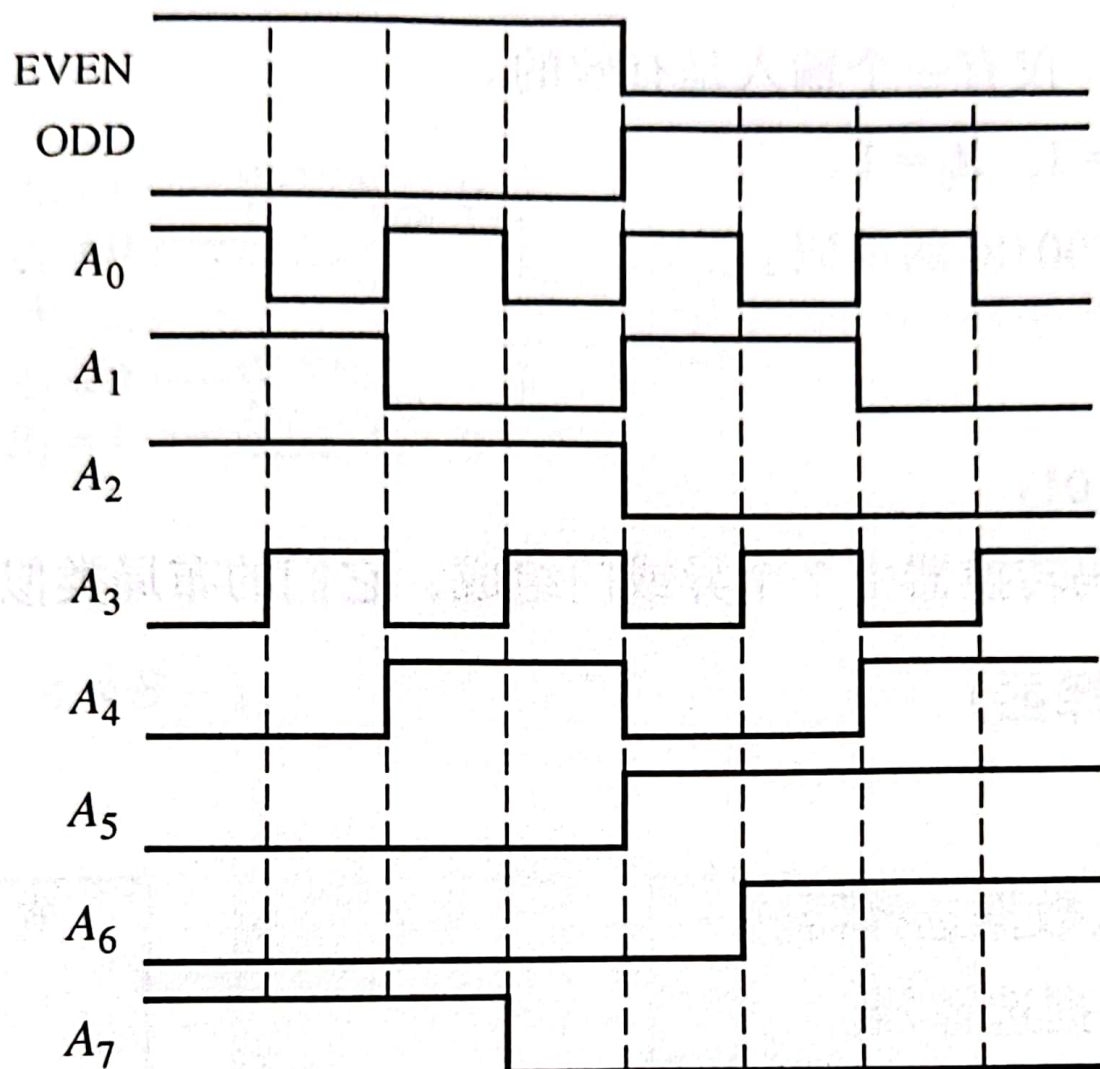


图 6.71

