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	4.1.			28
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	4.3.			41
	4.4.			53
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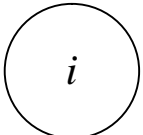

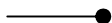

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$G(, U),$ — , $U -$
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$$i = \overline{1, N}$$

$$\tilde{i} = \{i, \bar{i}\},$$

\bar{i}

; $N -$

i

, « \bar{i} » \bar{i}

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$$P_i(t) = P_i = 1 - Q_i,$$

() $i-$

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n

, n —

N

\bar{y}_i

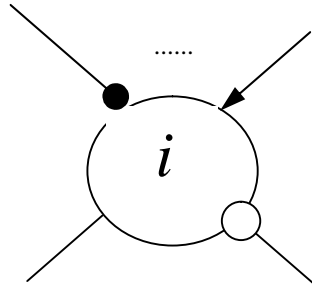
y_i

$$\tilde{y}_i = \{y_i, \bar{y}_i\}$$

$G(X, U)$

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\tilde{y}_i

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i

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j

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i

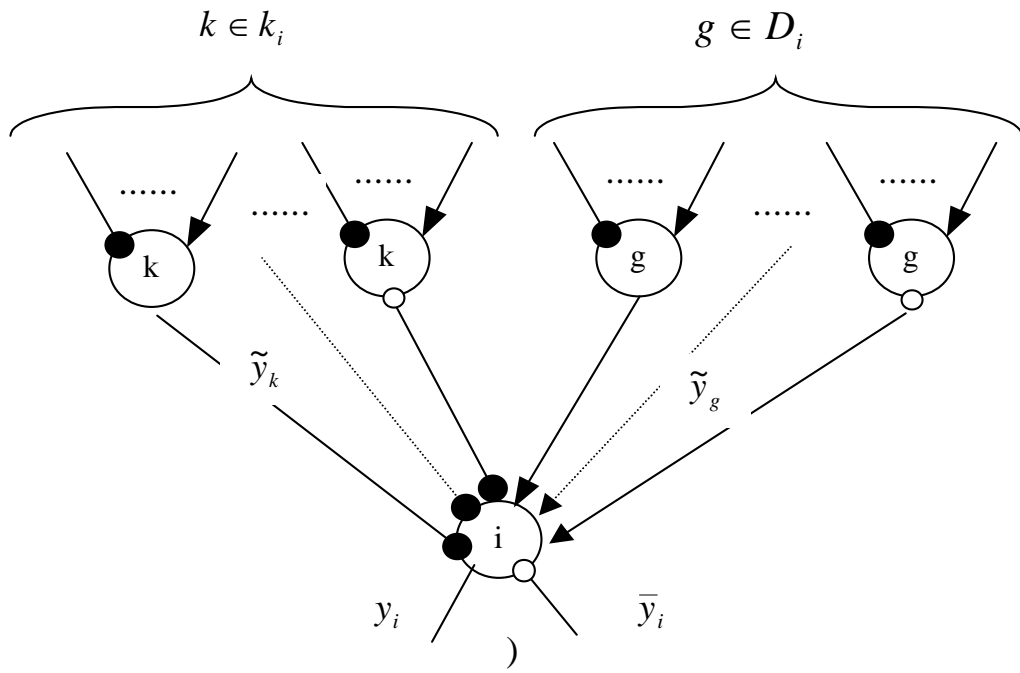
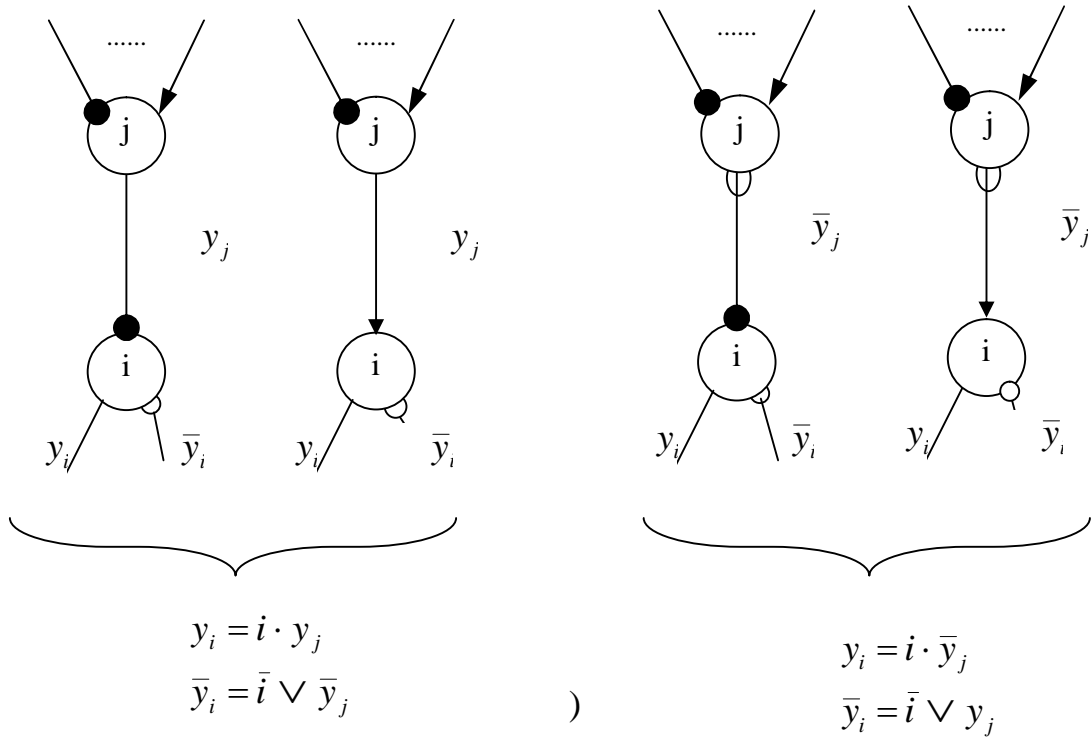
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$$y_i = i \cdot \tilde{y}_j;$$

$$\bar{y}_i = \bar{i} \vee \bar{\tilde{y}}_j$$

(1)



.2.

• &

i
 $j \in \Phi_i$

$i-$

$$j \in \Phi_i \quad G(X, U).$$

(. . . 1).

$$\tilde{y}_k, \quad i, \quad i-$$

$$\&_{k \in K_i} \tilde{y}_k, \quad K_i \in \Phi_i$$

\tilde{y}

$$\bigvee_{\in D_i} \tilde{y}, \quad D_i \in \Phi_i.$$

$$K_i \quad D_i -$$

$$i \quad (K_i \cap D_i = 0, \quad K_i \cup D_i = \Phi_i).$$

. 2

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$$y_i = i \cdot \left(\&_{k \in K_i} \tilde{y}_k \right) \cdot \left(\bigvee_{\in D_i} \tilde{y} \right); \tag{2}$$

$$\bar{y}_i = \bar{i} \cdot \left(\bigvee_{k \in K_i} \bar{\tilde{y}}_k \right) \bigvee \left(\&_{\in D_i} \bar{\tilde{y}} \right)$$

(1) (2)

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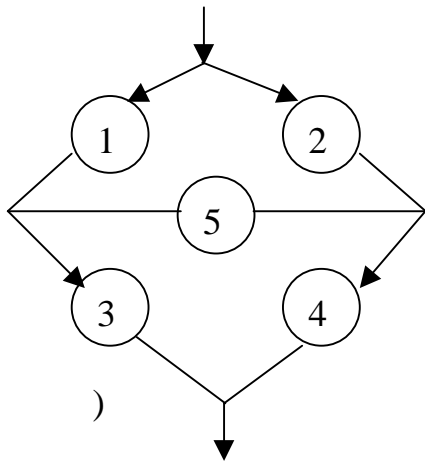
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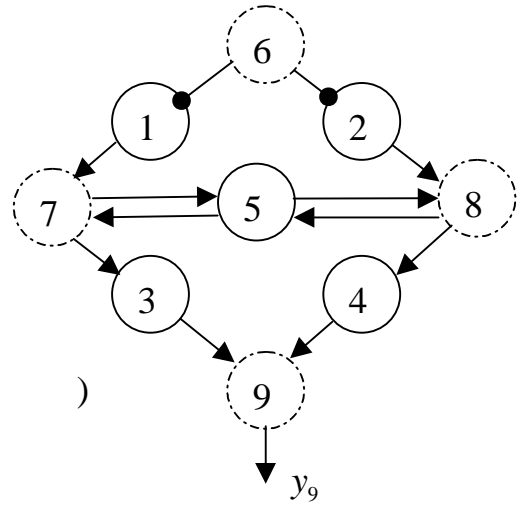
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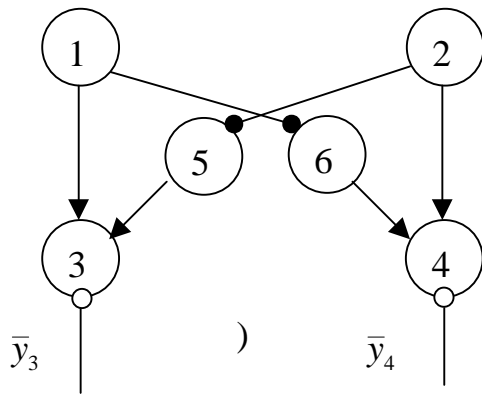
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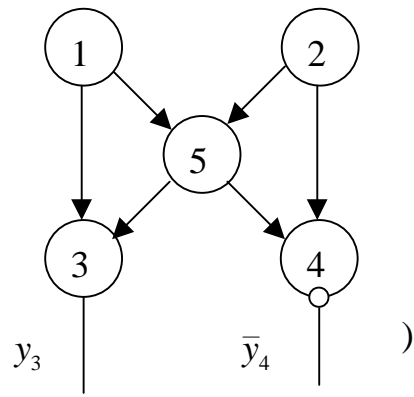
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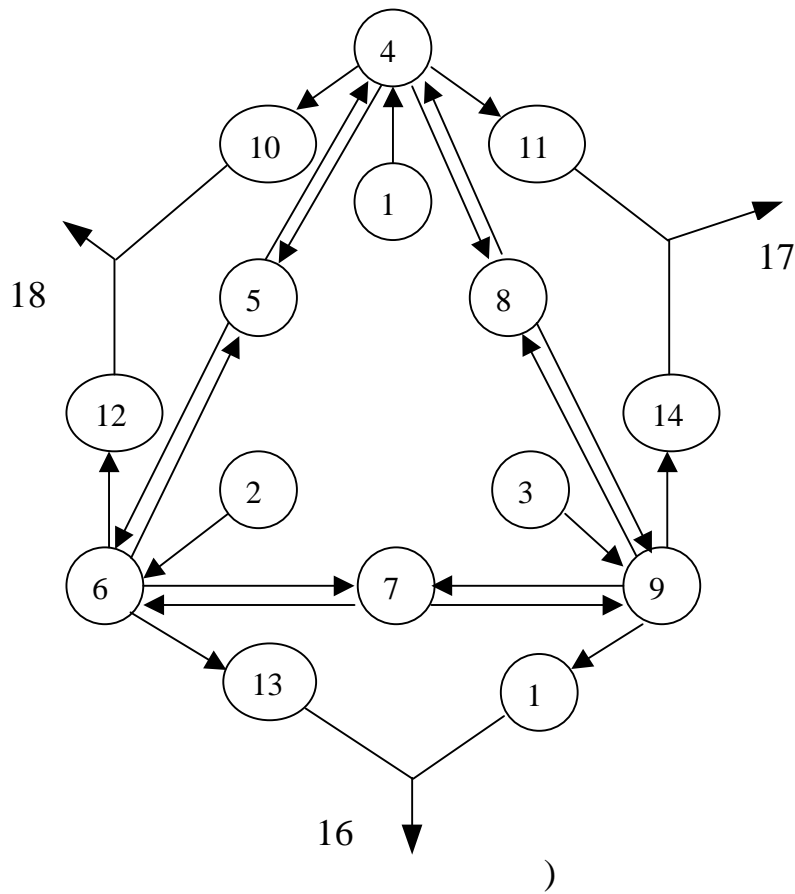
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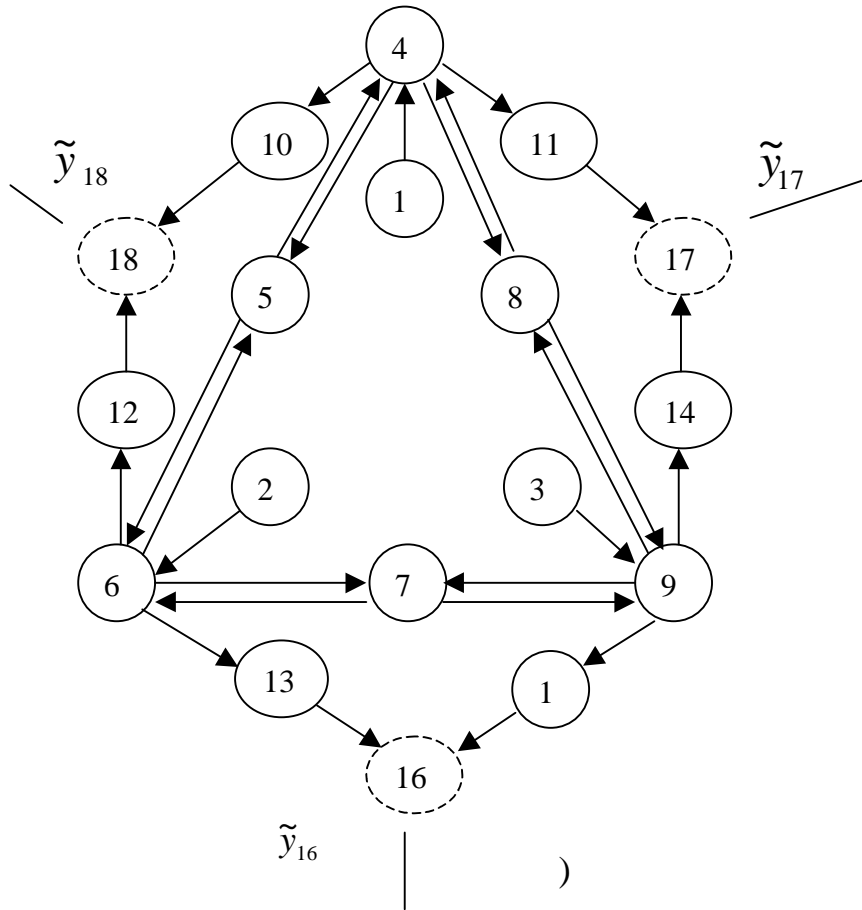
(1), (2)

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.4 , $N = 15$: 1, 2, 3 — (); 4, 6, 9 —
; 5, 7, 8 — ; 10—15 —





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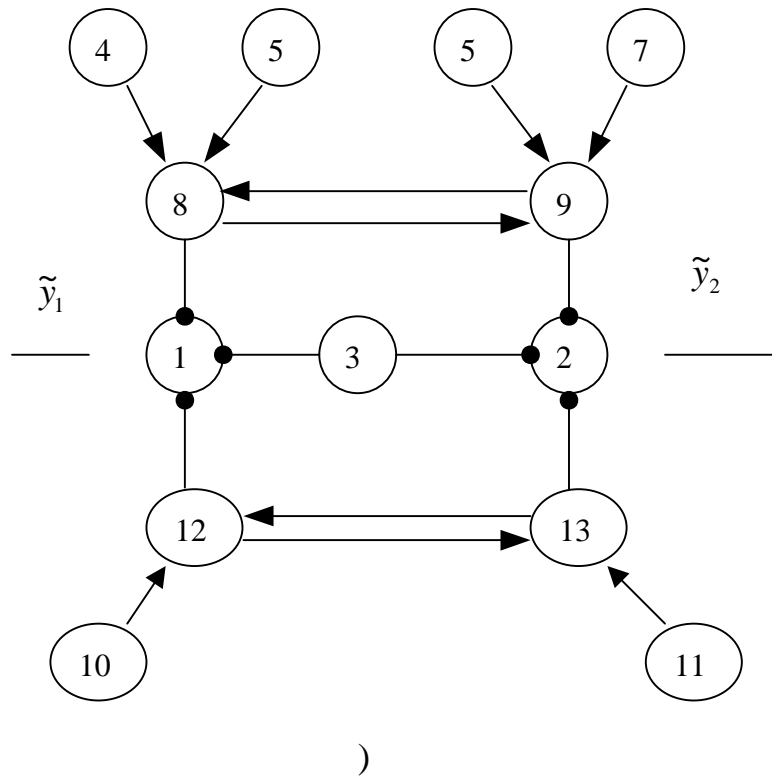
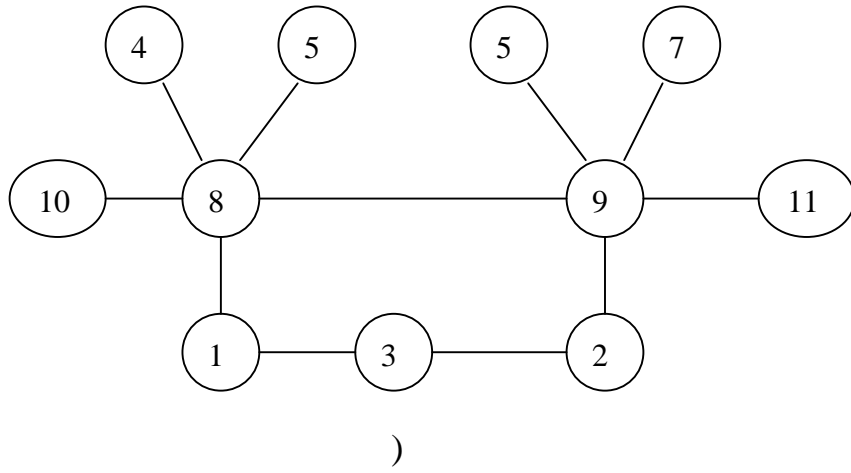
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 , .4 , 1-15 - -
 , 16-18 - . -
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2.

$N=11$: 1, 2 - ; 3 - ; 4-7 - .5, ,
 () ; 8, 9 - ; 10, 11 - -
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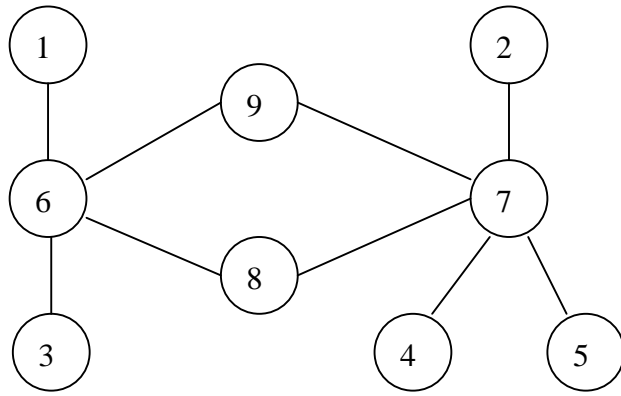
[36], . . . : 1,2 -
 3, 4-7 - 10

11.

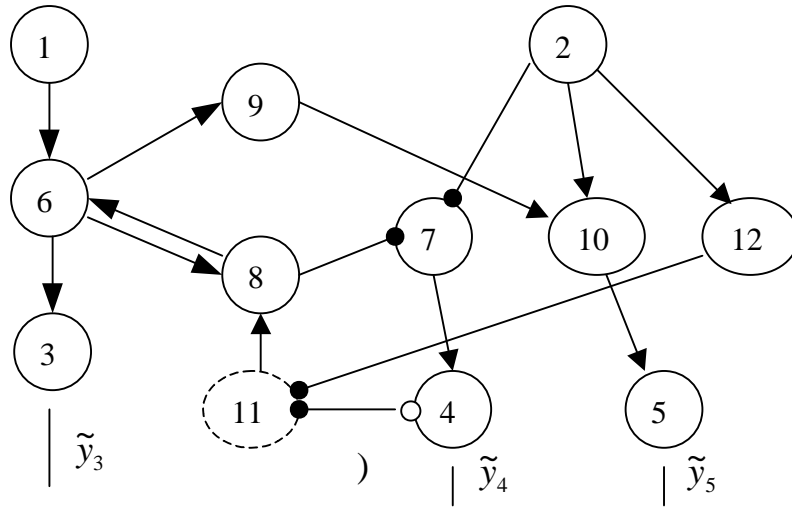


.5.

(. . 5)
 8 9
 12 13,
 ()
 8
 9.
 3.
 N=9 : 1,2 ; 3, 4, 5 - ; 6, 7
 ; 8, 9 -



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.6.

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4

1 2, 1 8;

9 1 5;

8 -

3, 4;

8

2 1 3 4 8 4.

7(.6).

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5 10.

8 12

11. 10 12 7.

6 , 4).

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(. . 3, 4).

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1, 2 3

1 (. .4) ,

16, 17 18.

(1) $Y_c = y_{16} \cdot y_{17} \cdot y_{18} \cdot$ (7)

(2) $\bar{Y}_c = \bar{y}_{16} \vee \bar{y}_{17} \vee \bar{y}_{18} \cdot$ (8)

2 (. .5)

1 2

(1) $Y_1 = y_1 \cdot y_2;$ (9)

(2) $Y_2 = y_1 \cdot \bar{y} \vee \bar{y}_1 \cdot y_2 \cdot$ (10)

(3) $Y_c = Y_1 \vee Y_2 = y_1 \vee y_2 \cdot$ (11)

(9) (10)

(11),

3 (. .6)

3:

(1) $Y_1 = y_3;$ (12)

4

3:

(2) $Y_2 = \bar{y}_3 \cdot y_4;$ (13)

5

3 4:

(3) $Y_3 = \bar{y}_3 \cdot \bar{y}_4 \cdot y_5;$ (14)

3, 4 5:

(4) $Y_4 = y_3 \vee y_4 \vee y_5 \cdot$ (15)

$$Y = Y(\tilde{1}, \tilde{2}, \dots, \tilde{N}) \quad (16)$$

(3)

$$\tilde{i}, \quad i = \overline{1, N},$$

(16)

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(16)

(3)

$$\tilde{y}_i, \quad i = \overline{1, n}$$

(3)

$$\tilde{i}, \quad i = \overline{1, N}.$$

[16, 19, 33, 37, 38]

[22]

(3)

(16)

(16)

(3)

1.

$$\tilde{y}_i$$

(1), (2),

$$\tilde{y}_i \quad [\dots]$$

(17)

\bar{y}_i y_i i \bar{i}
 $\mathbf{0}$ \mathbf{I}

2.

$$\begin{aligned}
 y_i [\dots y_i \dots] &= y_i [\dots \mathbf{0} \dots] \\
 \bar{y}_i [\dots \bar{y}_i \dots] &= \bar{y}_i [\dots \mathbf{I} \dots]
 \end{aligned}
 \tag{18}$$

,

$$\begin{aligned}
 y_i [\dots y_j \dots] &= y_i [\dots \mathbf{0} \dots] \\
 \bar{y}_i [\dots \bar{y}_j \dots] &= \bar{y}_i [\dots \mathbf{I} \dots]
 \end{aligned}$$

$i \quad j$

3.

$\mathbf{0} \quad \mathbf{I}$

1-3

, . . .

\tilde{i}

\tilde{y}_i

:

\tilde{y}_i (17);

;

(4), (5), (6).

(4) . 3 ,

$$\begin{aligned} Y_c &= y_9 = \\ &= y_9[(y_3 \vee y_4)] = \\ &= y_9[(y_3[3 \cdot y_7] \vee y_4[4 \cdot y_8])] = \\ &= y_9[(y_3[3 \cdot y_7[(y_1 \vee y_5)]] \vee y_4[4 \cdot y_8[(y_2 \vee y_5)]])] \end{aligned}$$

. 1 ,

$$y_9[(y_3[3 \cdot y_7[(y_1[1 \cdot I] \vee y_5[5 \cdot (y_7 \vee y_8)]]]] \vee y_4[4 \cdot y_8[(y_2[2 \cdot I] \vee y_5[5 \cdot (y_7 \vee y_8)]]]])]$$

. 2 , (18)

$$y_9[(y_3[3 \cdot y_7[(y_1[1 \cdot I] \vee y_5[5 \cdot (0 \vee y_8)]]]] \vee y_4[4 \cdot y_8[(y_2[2 \cdot I] \vee y_5[5 \cdot (y_7 \vee 0)]]]])]$$

. 3 -

:

$$y_9[(y_3[3 \cdot y_7[(y_1[1] \vee y_5[5 \cdot y_8])] \vee y_4[4 \cdot y_8[(y_2[2] \vee y_5[5 \cdot y_7]]]])]$$

$$\begin{aligned} &y_9[(y_3[3 \cdot y_7[(y_1[1] \vee y_5[5 \cdot y_8[(y_2 \vee y_5)]]]] \vee y_4[4 \cdot y_8[(y_2[2] \vee y_5[5 \cdot y_7[(y_1 \vee y_5)]]]]]])] = \\ &= y_9[(y_3[3 \cdot y_7[(y_1[1] \vee y_5[5 \cdot y_8[(y_2 \vee 0)]]]] \vee y_4[4 \cdot y_8[(y_2[2] \vee y_5[5 \cdot y_7[(y_1 \vee 0)]]]]]])] = \\ &= y_9[(y_3[3 \cdot y_7[(y_1[1] \vee y_5[5 \cdot y_8[y_2]]] \vee y_4[4 \cdot y_8[(y_2[2] \vee y_5[5 \cdot y_7[y_1]]]]]])] \end{aligned}$$

$$\begin{aligned} &y_9[(y_3[3 \cdot y_7[(y_1[1] \vee y_5[5 \cdot y_8[y_2[2 \cdot I]]]] \vee y_4[4 \cdot y_8[(y_2[2] \vee y_5[5 \cdot y_7[y_1[1 \cdot I]]]]]])] = \\ &= y_9[(y_3[3 \cdot y_7[(y_1[1] \vee y_5[5 \cdot y_8[y_2[2]]]] \vee y_4[4 \cdot y_8[(y_2[2] \vee y_5[5 \cdot y_7[y_1[1]]]]]])] \end{aligned}$$

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$$(3 \cdot (1 \vee 5 \cdot 2) \vee 4 \cdot (2 \vee 5 \cdot 1)) = 1 \cdot 3 \vee 2 \cdot 3 \cdot 5 \vee 2 \cdot 4 \vee 1 \cdot 4 \cdot 5 \quad (19)$$

, (5) . 3 :

$$\begin{aligned} \bar{Y}_c &= \bar{y}_3 \cdot \bar{y}_4 = \\ &= \bar{y}_3[(\bar{3} \vee \bar{1} \cdot \bar{y}_5)] \cdot \bar{y}_4[(\bar{4} \vee \bar{2} \cdot \bar{y}_6)] = \\ &= \bar{y}_3[(\bar{3} \vee \bar{1} \cdot \bar{y}_5[(\bar{5} \vee \bar{2})])] \cdot \bar{y}_4[(\bar{4} \vee \bar{2} \cdot \bar{y}_6[(\bar{6} \vee \bar{1})])] = \\ &= (\bar{3} \vee \bar{1} \cdot (\bar{5} \vee \bar{2})) \cdot (\bar{4} \vee \bar{2} \cdot (\bar{6} \vee \bar{1})) = \\ &= (\bar{3} \vee \bar{1} \cdot (\bar{5} \vee \bar{2})) \cdot (\bar{4} \vee \bar{2} \cdot (\bar{5} \vee \bar{1})) = \\ &= (\bar{3} \vee \bar{1} \cdot \bar{5} \vee \bar{1} \cdot \bar{2}) \cdot (\bar{4} \vee \bar{2} \cdot \bar{5} \vee \bar{1} \cdot \bar{2}) = \bar{3} \cdot \bar{4} \vee \bar{2} \cdot \bar{3} \cdot \bar{5} \vee \bar{1} \cdot \bar{4} \cdot \bar{5} \vee \bar{1} \cdot \bar{2} \end{aligned} \quad (20)$$

(6) , . 3 :

$$\begin{aligned}
Y &= y_3 \cdot \bar{y}_4 = \\
&= y_3 [3 \cdot (1 \vee y_5)] \cdot \bar{y}_4 [(\bar{4} \vee \bar{2} \cdot \bar{y}_5)] = \\
&= y_3 [3 \cdot (1 \vee y_5 [5 \cdot (1 \vee 2)])] \cdot \bar{y}_4 [(\bar{4} \vee \bar{2} \cdot \bar{y}_5 [(5 \vee \bar{1} \cdot \bar{2})])] = \quad (21) \\
&= 3 \cdot (1 \vee 5 \cdot (1 \vee 2)) \cdot (\bar{4} \vee \bar{2} \cdot (\bar{5} \vee \bar{1} \cdot \bar{2})) = \\
&= 3 \cdot (\bar{4} \cdot (1 \vee 2 \cdot 5) \vee 1 \cdot \bar{2} \cdot \bar{5})
\end{aligned}$$

1. :

(20), , (19), (21).

3.

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(16)

$$Y(\tilde{1}, \tilde{2}, \dots, \tilde{i}, \dots, \tilde{N}) \Rightarrow P(\{P_i, Q_i\}, \quad i = \overline{1, N})$$

[23].

[22]

1.

$$x \cdot \bar{i} \vee x \cdot \{ = x \cdot \bar{i} \vee x \cdot \{ \cdot \bar{i} \quad (22)$$

$\gamma \quad \varphi -$

, a $\tilde{i} -$

(22)

1

$i \quad Q_i,$

$i \quad \bar{i}$

$\mathbf{V} \bullet -$

(. 2, 3).

2.

$$i \Rightarrow P_i; \bar{i} \Rightarrow \bar{P}_i \quad (23)$$

3.

$$\begin{matrix} \tilde{f}_j & \tilde{f}_k \\ \tilde{P}_j & \tilde{P}_k \end{matrix} \quad (\quad , \quad) \quad j=k$$

$$\tilde{f}_j \cdot \tilde{f}_k = \begin{cases} \tilde{f}_j, & j=k, \quad \sim_j = \sim_k; \\ 0, & j=k, \quad \sim_j \neq \sim_k; \\ \tilde{f}_j \tilde{f}_k, & j \neq k; \end{cases} \quad (24)$$

$$\tilde{f}_j \vee \tilde{f}_k = \begin{cases} \tilde{f}_j, & j=k, \quad \sim_j = \sim_k; \\ 1, & j=k, \quad \sim_j \neq \sim_k; \\ \tilde{f}_j + \tilde{f}_k - f_j \cdot f_k & j \neq k; \end{cases} \quad (25)$$

$$\begin{aligned} \bar{f}_j &\Rightarrow 1 - f_j; \\ \bar{P}_j &\Rightarrow Q_j = 1 - P_j \end{aligned} \quad (26)$$

$$(24), (25) \quad (26)$$

(19), (20) (21):

$$\begin{aligned} 1 \cdot 3 \vee 2 \cdot 3 \cdot 5 \vee 2 \cdot 4 \vee 1 \cdot 4 \cdot 5 &= 1 \cdot 3 \vee 2 \cdot 3 \cdot 5 \cdot \bar{1} \cdot \bar{4} \vee 2 \cdot 4 \vee 1 \cdot 4 \cdot 5 \cdot \bar{3} \cdot \bar{2} \Rightarrow \\ &\Rightarrow P_1 P_3 + P_2 P_3 P_5 Q_1 Q_4 + P_2 P_4 - P_1 P_3 P_2 P_4 + P_1 P_4 P_5 Q_3 Q_2; \end{aligned} \quad (27)$$

$$\begin{aligned} \bar{3} \cdot \bar{4} \vee \bar{2} \cdot \bar{3} \cdot \bar{5} \vee \bar{1} \cdot \bar{4} \cdot \bar{5} \vee \bar{1} \cdot \bar{2} &= \bar{3} \cdot \bar{4} \vee \bar{2} \cdot \bar{3} \cdot \bar{5} \cdot 4 \cdot 1 \vee \bar{1} \cdot \bar{4} \cdot \bar{5} \cdot 3 \cdot 2 \vee \bar{1} \cdot \bar{2} \Rightarrow \\ &\Rightarrow Q_3 Q_4 + Q_2 Q_3 Q_5 P_4 P_1 + Q_1 Q_4 Q_5 P_3 P_2 + Q_1 Q_2 - Q_3 Q_4 Q_1 Q_2; \end{aligned} \quad (28)$$

$$\begin{aligned} 3 \cdot (\bar{4} \cdot (1 \vee 2 \cdot 5) \vee 1 \cdot 2 \cdot 5) &= 3(\bar{4} \cdot (1 \vee 2 \cdot 5 \cdot \bar{1}) \vee 1 \cdot 2 \cdot 5 \cdot 4) \Rightarrow \\ &\Rightarrow P_3(Q_4(P_1 + P_2 P_5 Q_1) + P_1 P_2 P_5 P_4). \end{aligned} \quad (29)$$

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 . 2 (. 1-3) -
 (7) - (15). -
 K_1 - , 2 — . -
 $i = \overline{1, N}$. $i = 0, 9$, -
 1. I II -
 , [36] [38]. -
 [36]. , -
 2. I II -
 2 III . -
 3. 3 I - III -
 IV . -

-							
1	I	· 4,	$y_{16} \cdot y_{17} \cdot y_{18}$	$_1=92$	$_2=199$	$3P^7(1+Q(3+2Q)+P^9Q^2(3(1+5Q^2(1+Q^2))+$ $+Q(17+24Q^2)))-P^{10}(1+2Q+Q^2(1+4Q+Q^2 \cdot$ $\cdot(1+Q))) - P^{11}Q(2+15Q(1+Q^2)+24Q^2)-P^{12} \cdot$ $\cdot(1+Q(8++Q(7+5Q))) - P^{13}(1+Q(1-5Q))+$ $+P^{14}(1+4Q)$	0,89550
	II	· 4,	$\bar{y}_{16} \vee \bar{y}_{17} \vee \bar{y}_{18}$	$_1=31$	$_2=200$	$Q^2(1+P(3+4P(1+P)))+Q^3(1+9P^5)-$ $-Q^4P(1+3P(1+P(2-P(2+P))))-$ $-Q^5(1+3P(1+3P^4)+4P^2(1+P))+$ $+Q^6P(1-6P(3+P(2+P)))+$ $+Q^7P(1+3P(1+P^5)+P^2(6-4P^2+P^5))+$ $+Q^8P^4(18+P(19+P(10+P)))-$ $-Q^9P^3(1-4P^2(1-P))-2Q^{10}P^4(3+5P)$	0.1045
2	I	· 5,	$y_1 \cdot y_2$	$_1=8$ 1·2·3·8·9·(10√11)· ·(5√4√6√7)	$_2=8$ $P_1P_2P_3 \cdot P_8 P_9 \cdot$ $\cdot(P_{10}+Q_{10}P_{11}) \cdot$ $\cdot(P_5+P_4Q_5+Q_4Q_5P_7+$ $+Q_4Q_5P_6Q_7)$	$P^7(1+Q(Q^3+2(1+Q(1+Q))))$	0.58453

	II	.	$y_1 \cdot \bar{y}_2 \vee \bar{y}_1 \cdot y_2$	$_1=20$	$_2=24$	$2P^5Q(1+Q)+P^6Q(3+Q(4+Q(2+Q(4+3Q))))-P^8Q(1+Q(2+Q))$	0.2598
	III	.	$y_1 \vee y_2$	$_1=16$	$_2=28$	$2P^6Q(1+Q(1+Q(1+Q(2+Q))))+2P^5(1+Q)-2P^8Q(1+Q(2+Q))-P^9(1+Q(2+Q))$	0.84433
3	I	.	y_3	$_1=3$ $3 \cdot 6 \cdot (1 \vee 2 \cdot 7 \cdot 8 \cdot (\bar{1} \vee \bar{4}))$	$_2=2$ $P_3P_6 \cdot (P_1+QP_2P_7P_8)$	$P^3(1+P^2Q)$	0.78805
	II	.	$y_3 \cdot y_4$	$_1=1$ $1 \cdot 2 \cdot \bar{3} \cdot 4 \cdot 6 \cdot 7 \cdot 8$	$_2=1$ $P_1P_2Q_3P_4P_6P_8$	P^6Q	0.05314
	III	.	$\bar{y}_3 \cdot \bar{y}_4 \cdot y_5$	$_1=8$ $5 \cdot 7 \cdot (1 \cdot \bar{3} \cdot 6 \cdot 9 \cdot (\bar{8} \vee \bar{2} \vee \bar{4})) \vee 2 \cdot (\bar{1} \cdot (\bar{3} \vee \bar{8}) \vee \bar{3} \cdot (\bar{8} \vee \bar{4}) \vee \bar{6})$	$_2=6$ $P_5P_7 \cdot (P_1Q_3P_6(Q_2P_9+P_2Q_4P_2+P_2Q_8)+P_2(Q_1P_6(Q_3+P_3Q_8)+Q_6))$	$P^3Q(1+PQ(1+P(3+P)))$	0.10249
	IV	.	$y_3 \vee y_4 \vee y_5$	$_1=6$ $3 \cdot 6 \cdot (1 \vee 2 \cdot 7 \cdot 8 \cdot (\bar{1} \vee \bar{4})) \vee 7 \cdot (1 \cdot 6 \cdot (2 \cdot 4 \cdot 8 \vee 5 \cdot 9) \vee 2 \cdot 5)$	$_2=6$ $P_2P_3P_6P_7 \cdot (Q_1Q_5P_8-P_1P_5)+P_1P_6(P_3+Q_3P_7(P_2P_4Q_5P_8+Q_2P_5P_9))+P_2P_5P_7$	$P^3(2(1+Q^2P^2))+P^3(Q^2-1)$	0.94368

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[4].

[4, 39]

4.1

$S^{(l)}, l = \overline{1, L}$.

($S^{(l)}$)

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($S^{(l)}$)

$S^{(l)}$

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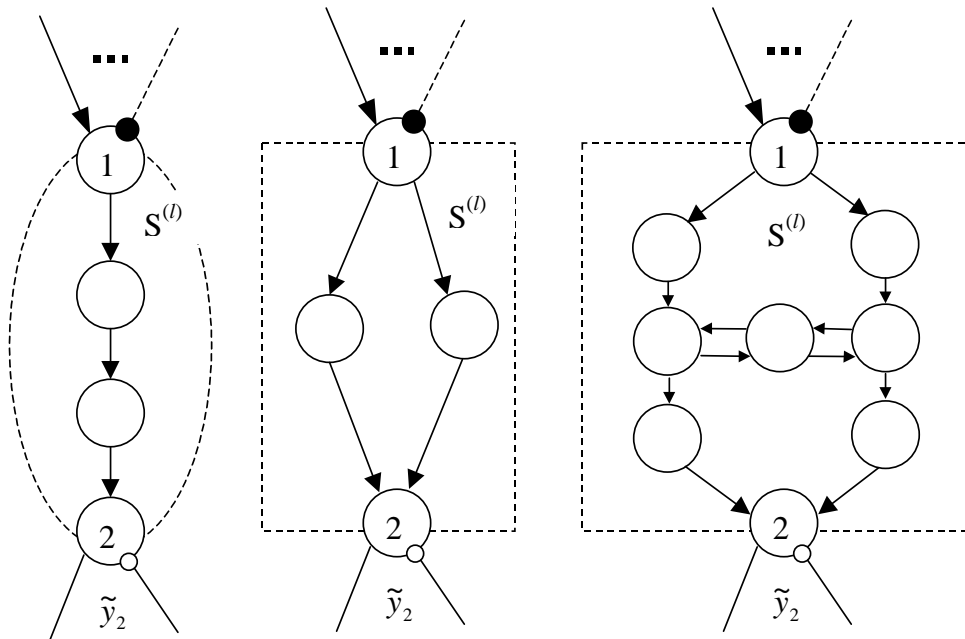
$$y_3 \vee y_4 \quad \overline{y_3 \vee y_4} = \bar{y}_3 \cdot \bar{y}_4,$$

" " —

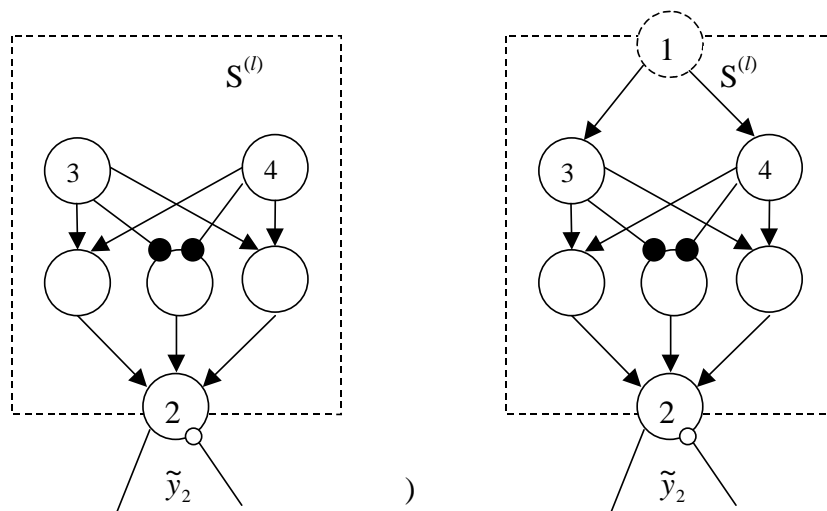
» 3, 4

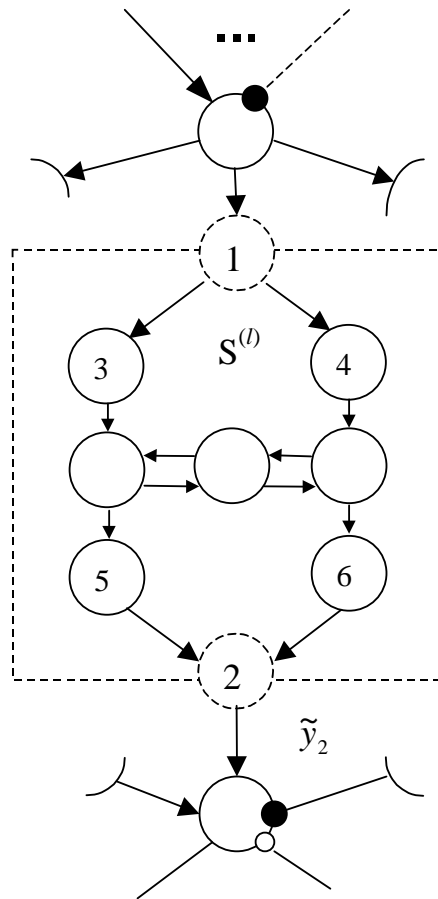
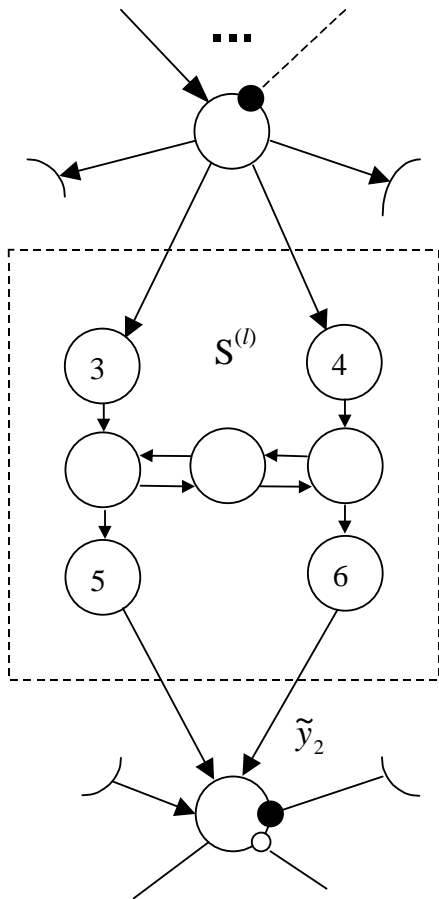
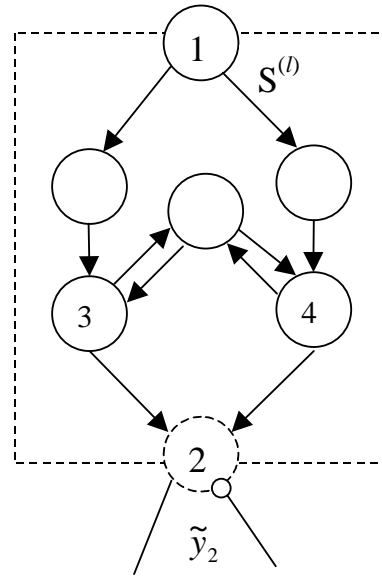
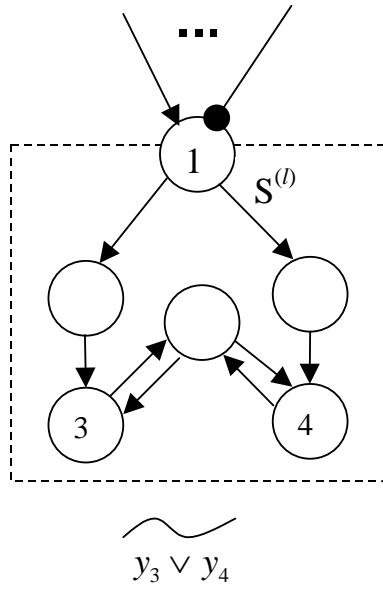
3, 4

5, 6



.7.





.8.

$$P_{x^{(l)}} = P\{x^{(l)} = I\} = P(\{P_i, Q_i\}, i \in K_i)$$

$$4. \quad P_{x^{(l)}} \quad Q_{x^{(l)}} = 1 - P_{x^{(l)}} \quad x^{(l)}, \quad S^{(l)}.$$

$$1. \quad S^{(l)}, \quad S,$$

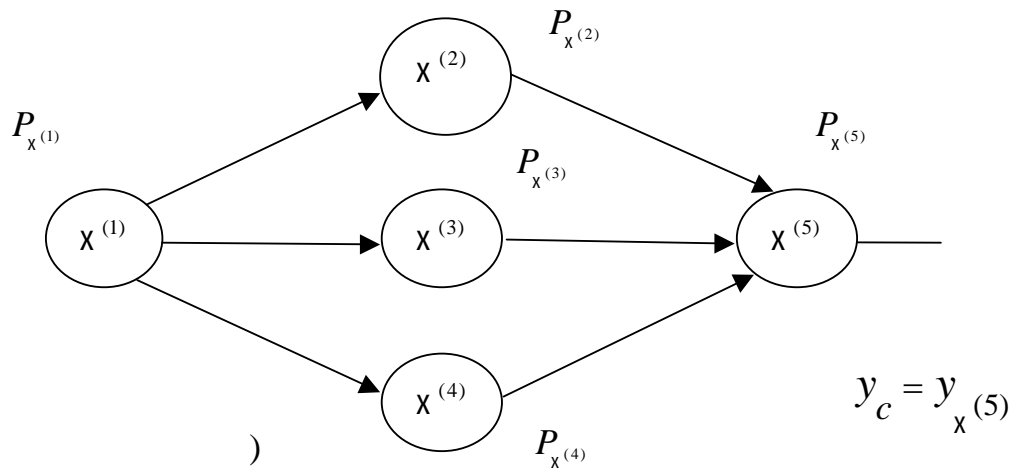
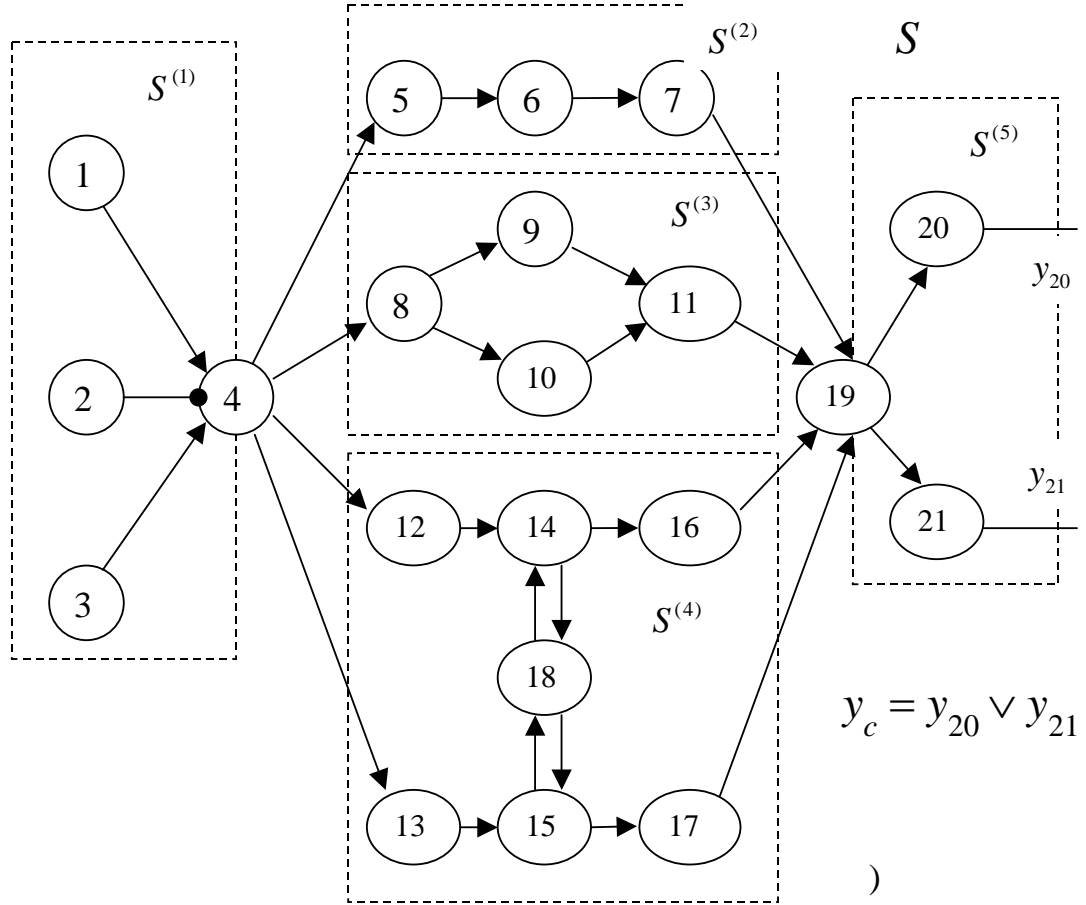
$$2. \quad S \quad x^{(l)} \quad S^{(l)}, \quad l = \overline{1, L}$$

$$, \text{ a } S^{(1)}, S^{(4)} \quad S^{(5)} - \quad S^{(2)} \quad S^{(3)} \quad 9 .$$

$$\begin{aligned} x^{(1)} &= 2 \cdot 4 \cdot (1 \vee 3); & P_{x^{(1)}} &= P_2 P_4 (1 - Q_1 Q_3); \\ x^{(2)} &= 5 \cdot 6 \cdot 7; & P_{x^{(2)}} &= P_5 P_6 P_7; \\ x^{(3)} &= 8 \cdot 11 (9 \vee 10); & P_{x^{(3)}} &= P_8 P_{11} (1 - Q_9 Q_{10}); \\ x^{(4)} &= 14 \cdot 16 \cdot (12 \vee 18 \cdot 15 \cdot 13) \vee 15 \cdot 17 \cdot (13 \vee 12 \cdot 14 \cdot 18) = \\ &= 14 \cdot 16 \cdot (12 \vee \bar{12} \cdot 18 \cdot 15 \cdot 13) \vee 15 \cdot 17 \cdot (13 \vee \bar{13} \cdot 12 \cdot 14 \cdot 18); \\ P_{x^{(4)}} &= P_{14} P_{16} (P_{12} + Q_{12} P_{18} P_{15} P_{13}) \vee P_{15} \cdot P_{17} (P_{13} + Q_{13} P_{12} P_{14} P_{18}) - \\ &\quad - P_{14} P_{16} P_{12} P_{15} P_{17} P_{13}; \\ x^{(5)} &= 19 \cdot (20 \vee 21); & P_{x^{(5)}} &= P_{19} (1 - Q_{20} Q_{21}). \end{aligned} \tag{32}$$

$$(32) \quad P_{x^{(1)}}, \dots, P_{x^{(5)}} \quad \tilde{x}^{(1)}, \dots, \tilde{x}^{(5)} \quad S \quad 9 .$$

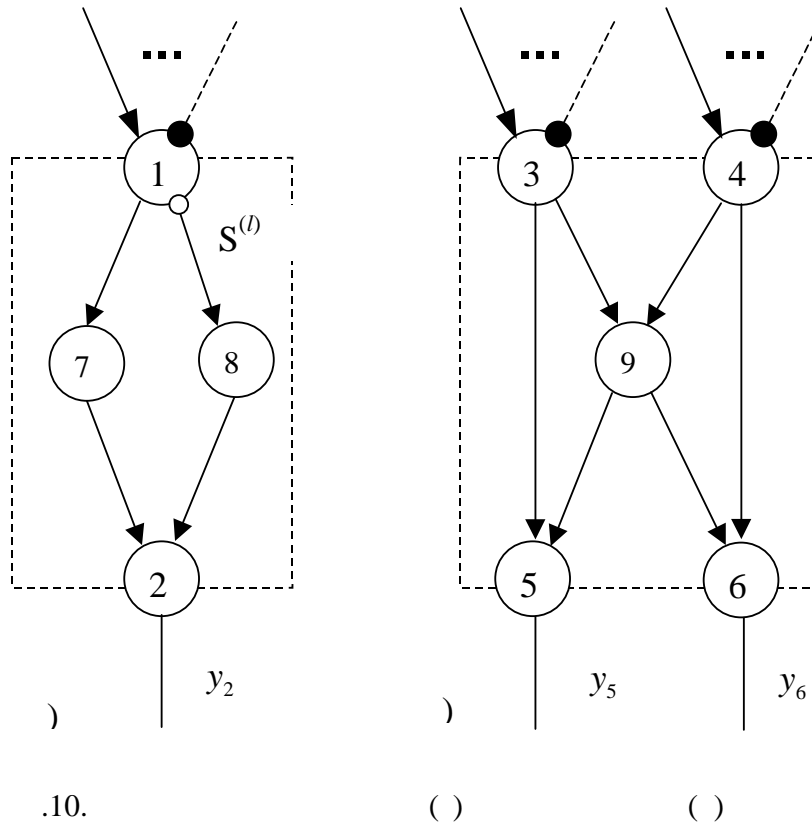
$$\begin{aligned}
 y_c &= y_{20} \vee y_{21} = y_{x^{(5)}} = x^{(1)} \cdot x^{(5)} \cdot (x^{(2)} \vee x^{(3)} \vee x^{(4)}) = \\
 &= x^{(1)} \cdot x^{(5)} \cdot (\overline{x^{(2)} \vee x^{(3)} \vee x^{(4)}}); \\
 P_c &= P_{x^{(1)}} P_{x^{(5)}} (1 - Q_{x^{(2)}} Q_{x^{(3)}} Q_{x^{(4)}})
 \end{aligned}$$



.9.

), , S (-
 S^(l) .10 (" ") (" ") .

$$\begin{aligned}
 y_2 &= 2 \cdot 7 \cdot y_1 \vee 2 \cdot 8 \cdot \bar{y}_1; \\
 y_5 \cdot y_6 &= 5 \cdot 6 \cdot (y_3 \cdot y_4 \vee 9 \cdot (y_3 \vee y_4))
 \end{aligned}
 \tag{33}$$



(33),

4.2.

(3) $(Y_k, k = \overline{1, K})$ Ψ $S.$

$$P_c = P\{Y\} = \mathbb{E} \left(P\{Y_k\}, k = \overline{1, K} \right) \quad (34)$$

\tilde{y}_i $Y,$ $Y_k, k = \overline{1, K}$ i Y_k

(34), I $Y_k, k = \overline{1, K}$ Y $P\{Y_k\}, k = \overline{1, K},$ Y

(34) Ψ Y_k $\{Y_k\}.$ Y Y_k $\{Y_k\}.$

(§ 3) (34)

1. \bar{Y} (22):

$$x \cdot \tilde{y}_i \vee x \cdot \{ = x \cdot \tilde{y}_i \vee x \cdot \{ \cdot \bar{\tilde{y}}_i \quad (35)$$

$$\begin{aligned}
2. \quad & Y \quad Y_r \\
& \vdots \\
& \tilde{y}_i \Rightarrow P\{\tilde{y}_i\}; \\
& \tilde{y}_i \vee \tilde{y}_j \Rightarrow P\{\tilde{y}_i \vee \tilde{y}_j\}; \\
& \tilde{y}_i \cdot \tilde{y}_j \Rightarrow P\{\tilde{y}_i \cdot \tilde{y}_j\}
\end{aligned} \quad (36)$$

$$\begin{aligned}
3. \quad & \bullet \quad \mathbf{V} \quad \{Y_k\} \\
& \quad \quad \quad (24) \quad (25):
\end{aligned}$$

$$P\{Y_j\} \cdot P\{Y_k\} \Rightarrow \begin{cases} P\{Y_j\}, & Y_j = Y_k; \\ 0, & Y_j \cdot Y_k = 0; \\ P\{Y_j \cdot Y_k\}, & Y_j \neq Y_k, \quad Y \cdot Y_k \neq 0; \\ P\{Y_j\}P\{Y_k\}, & Y_j \quad Y_k \end{cases} \quad (37)$$

$$P\{Y_j\} \vee P\{Y_k\} \Rightarrow \begin{cases} P\{Y_j\}, & Y_j = Y_k; \\ 1, & Y_j = \bar{Y}_k; \\ P\{Y_j\} + P\{Y_k\}, & Y \cdot Y_k = 0; \\ P\{Y_j\} + P\{Y_k\} - P\{Y_j\} \cdot P\{Y_k\}, & Y_j \neq Y_k; \quad Y_j \neq \bar{Y}_k; \quad Y_j \cdot Y_k \neq 0; \end{cases} \quad (38)$$

$$\{Y_k\}, \quad (37) \quad (38) \quad (\dots) \quad \Psi$$

Y

$$P\{\bar{Y}_j\} = 1 - P\{Y_j\} = Q\{Y_j\} \quad (39)$$

(39)

$$Y_k, k = \overline{1, K} \quad (34)$$

$$Y_k, k = \overline{1, K}$$

{Y_k}

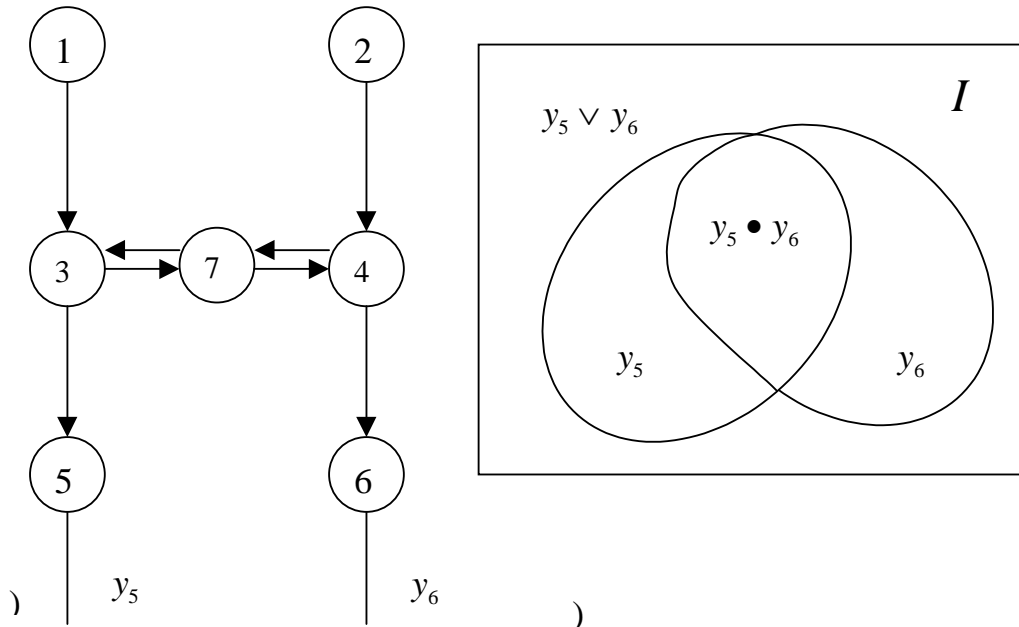
(34)

P

$$P\{Y_k\}, \quad k = \overline{1, K}. \quad (34)$$

. 11

$$Y = y_5 \vee y_6 \quad (40)$$



.11.

$$P_1 = P_2 = \dots = P_7 = P$$

= 0,9.

1.

(40)

2.

(40)

y_5, y_6

3.

(37), (38)

$$P_c = P\{Y\} = P\{y_5 \vee y_6\} = P\{y_5\} \vee P\{y_6\} \quad (41)$$

(41)

V

$$P_c = P\{y_5\} + P\{y_6\} - P\{y_5 \cdot y_6\} \quad (42)$$

11, .

$$y_5 = 5 \cdot 3 \cdot (1 \vee 2 \cdot 4 \cdot 7) = 5 \cdot 3 \cdot (1 \vee \bar{1} \cdot 2 \cdot 4 \cdot 7);$$

$$P\{y_5\} = P_5 P_3 (P_1 + Q_1 P_2 P_4 P_7) = P^3 (1 + QP^2) = 0,788049; \quad (43)$$

$$y_6 = 6 \cdot 4 \cdot (2 \vee 1 \cdot 3 \cdot 7) = 6 \cdot 4 \cdot (2 \vee 1 \cdot \bar{2} \cdot 3 \cdot 7);$$

$$P\{y_6\} = P_6 P_4 (P_2 + P_1 Q_2 P_3 P_7) = P^3 (1 + QP^2) = 0,788049; \quad (44)$$

$$y_5 \cdot y_6 = 5 \cdot 3 \cdot 6 \cdot 4 \cdot (1 \cdot 2 \vee 1 \cdot 7 \vee 2 \cdot 7) = 3 \cdot 4 \cdot 5 \cdot 6 \cdot (1 \cdot 2 \vee 1 \cdot \bar{2} \cdot 7 \vee \bar{1} \cdot 2 \cdot 7);$$

$$P\{y_5 \cdot y_6\} = P_5 P_3 P_6 P_4 (P_1 P_2 + P_1 Q_2 P_7 + Q_1 P_2 P_7) = P^6 (1 + 2Q) = 0,637729$$

(43), (44) (45) (42), :

$$P = 0,788049 + 0,788049 - 0,637729 = 0,938369; \quad (46)$$

$$P_c = P^3 (1 + QP^2) + P^3 (1 + QP^2) - P^6 (1 + 2Q) = 2P^3 (1 + QP^2) - P^6 (1 + 2Q); \quad (47)$$

$$P_c = P_5 P_3 (P_1 + Q_1 P_2 P_4 P_7) + P_6 P_4 (P_2 + P_1 Q_2 P_3 P_7) - P_5 P_3 P_6 P_4 (P_1 P_2 + P_1 Q_2 P_7 + Q_1 P_2 P_7) \quad (48)$$

(46), (47) (48)

[36]. [36]

Y

$$P\{Y\} = 1 - P\{\bar{Y}\} \quad (49)$$

\bar{Y} .

\bar{Y} ,

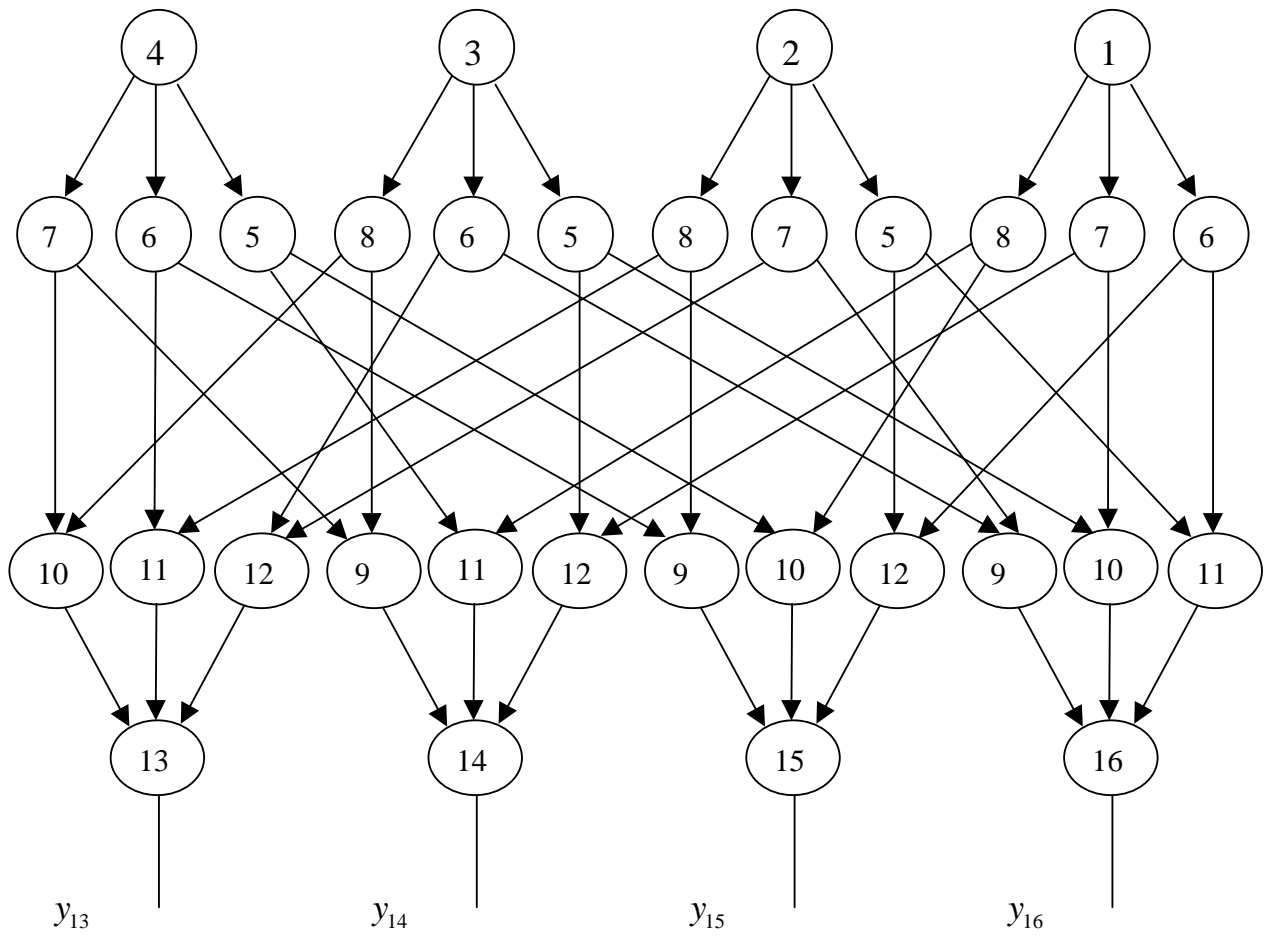
(. . .1, .2)

92

199

200

31



.12.

. 12

16

5-12

$$Y = y_{13} \vee y_{14} \vee y_{15} \vee y_{16} \tag{50}$$

(22), . . .

$2^{24}-1$.

M (49).

(50)

$$Y = y_{13} \vee y_{14} \vee y_{15} \vee y_{16} = y_{13} \vee y_{14} \cdot \bar{y}_{13} \vee y_{15} \cdot \bar{y}_{14} \cdot \bar{y}_{13} \vee y_{16} \cdot \bar{y}_{15} \cdot \bar{y}_{14} \cdot \bar{y}_{13}; \quad (51)$$

$$P_c = P\{y_{13}\} + P\{y_{14} \cdot \bar{y}_{13}\} + P\{y_{15} \cdot \bar{y}_{14} \cdot \bar{y}_{13}\} + P\{y_{16} \cdot \bar{y}_{15} \cdot \bar{y}_{14} \cdot \bar{y}_{13}\} \quad (51), \quad 126$$

$$= 0,928169. \quad 8 \quad = 0,7$$

4.3.

4.1)

$$S^{(l)}, \quad l = \overline{1, L},$$

$$S^{(l)}.$$

1)

$$S^{(l)}$$

2)

1.

2.

$$S^{(l)}$$

$$S^{(l)},$$

$$\tilde{i} = \{i, \bar{i}\}.$$

j

$\tilde{y}_j,$ $y_j,$ -
 $\bar{y}_j.$ -
 3. $S^{(l)}$ -
 \tilde{i} -
 \tilde{y}_j Y_k $P_i, Q_i,$ -
 $P\{Y_k\}.$ -
 $(24)-(26),$ $(37-39).$ -
 4. $S^{(l)}$ $S.$ -
 $S^{(l)}$ P_i Q_i -
 $P\{Y_k\}$ -
 $S^{(l)}$ -
 (33) $10,$ -
 10 -
 $y_2 = 2 \cdot 7 \cdot y_1 \vee 2 \cdot 8 \cdot \bar{y}_1;$ (52)
 $P\{y_2\} = P_2 P_7 \{y_1\} + P_2 P_8 \{\bar{y}_1\};$
 10 -
 $y_5 \cdot y_6 = 5 \cdot 6 \cdot y_3 \cdot y_4 \vee 5 \cdot 6 \cdot 9 \cdot (y_3 \vee y_4);$ (53)
 $P\{y_5 \cdot y_6\} = P_5 P_6 P\{y_3 \cdot y_4\} + P_5 P_6 P_9 P\{y_3 \vee y_4\} - P_5 P_6 P_9 \{y_3 \cdot y_4\}$
 (52) y_1 $\bar{y}_1,$ $(53) -$ $y_3 \cdot y_4$
 $y_3 \vee y_4.$ -
 $S^{(l)}, l = \overline{1, L}$ -
 S -
 $1.$ S L -
 $S^{(l)}, l = \overline{1, L}.$ -

\mathcal{S}
 $\mathcal{S}^{(l)}$
 $\mathcal{S}^{(l)}$
 \mathcal{S}
 (\quad)
 $\mathcal{S}^{(l)}, l = \overline{1, L}$
 $\mathcal{S}^{(1)}$
 (\quad)
 $\mathcal{S}^{(l)}$
 \mathcal{S}
 $\mathcal{S}^{(l)}$
 $\mathcal{S}^{(l+1)}$
 . 13.
 .
2.
 $\mathcal{S}^{(1)}$
 \mathcal{S}
 L
 $\mathcal{S}^{(l)}, l = \overline{1, L}$
 $\mathcal{S}^{(l)}$
 2.1.
 $(l-1)$
 $\mathcal{S}^{(l)}$
 2.2.
 $(l-1)$
 2.3.
 $\mathcal{S}^{(l+1)}$
3.
 $\mathcal{S}^{(L)}$

S

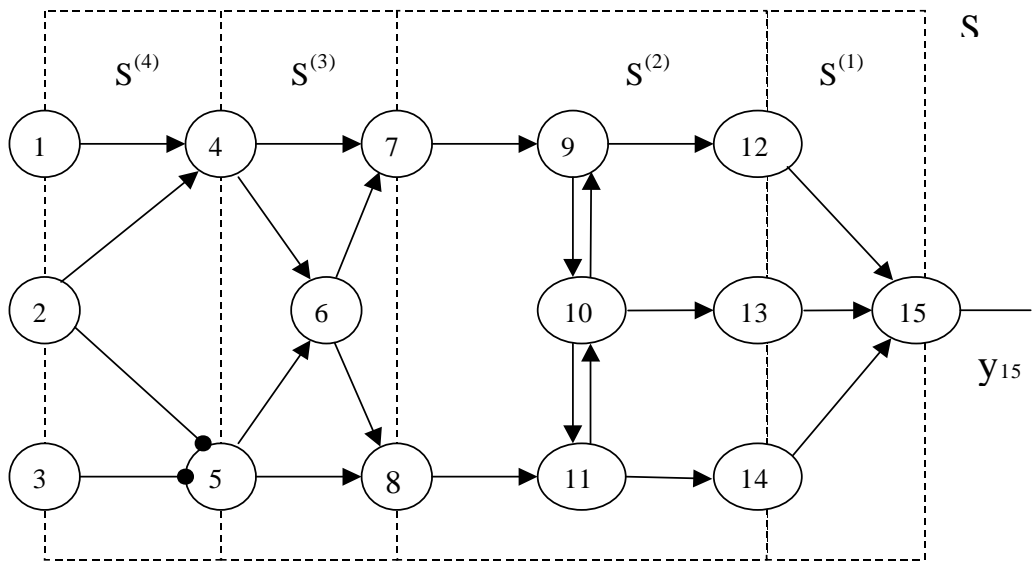
. 2.2

$S^{(l)}$

. 13.

$P_1 = 0,1; P_2 = 0,2; \dots; P_i = 0,i; \dots; P_{15} = 0,15.$

. 13



.13.

1.

$S^{(l)}$

S

y_{15}
12, 13 14

$S^{(1)}$

$$y_{15} = 15 \cdot (y_{12} \vee y_{13} \vee y_{14});$$

$$P_c = P(y_{15}) = P_{15} P\{y_{12} \vee y_{13} \vee y_{14}\} = 0,15 P\{y_{12} \vee y_{13} \vee y_{14}\} \quad (54)$$

(54) ()

$$\begin{aligned}
& \cdot \qquad \qquad \qquad y_{12} \vee y_{13} \vee y_{14}, \\
& \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \mathcal{S}^{(2)}. \\
\mathcal{S}^{(2)} \quad & \mathbf{2.} \qquad \qquad \qquad \mathbf{7} \quad \mathbf{8} \qquad \qquad \qquad , \\
(22) \quad & y_{12} \vee y_{13} \vee y_{14}
\end{aligned}$$

$$\begin{aligned}
& y_{12} \vee y_{13} \vee y_{14} = y_7 \cdot 9 \cdot (12 \vee 10 \cdot 13 \vee 10 \cdot 11 \cdot 14) \vee y_8 \cdot 11 \cdot (14 \vee 10 \cdot 13 \vee 10 \cdot 9 \cdot 12) = \\
& = y_7 \cdot 9 \cdot (12 \vee 10 \cdot 12 \cdot 13 \vee 10 \cdot 11 \cdot 12 \cdot 13 \cdot 14) \vee y_8 \cdot 11 \cdot (14 \vee 10 \cdot 13 \cdot 14 \vee 9 \cdot 10 \cdot 12 \cdot 13 \cdot 14)
\end{aligned}$$

$$\begin{aligned}
& P\{y_{12} \vee y_{13} \vee y_{14}\} = P\{y_7\}P_9(P_{12} + P_{10}Q_{12}P_{13} + P_{10}P_{11}Q_{12}Q_{13}P_{14}) + \\
& + P\{y_8\}P_{11}(P_{14} + P_{10}P_{13}Q_{14} + P_9P_{10}P_{12}Q_{13}Q_{14}) - P\{y_7 \cdot y_8\}P_9P_{11} \cdot \\
& \cdot (P_{12}P_{14} + P_{10}P_{12}P_{13}Q_{14} + P_{10}P_{12}Q_{13}Q_{14} + P_{10}Q_{12}P_{13}P_{14} + P_{10}Q_{12}P_{13}Q_{14} + P_{10}Q_{12}Q_{13}P_{14}) = \\
& = 0,119357 P\{y_7\} + 0,017519 P\{y_8\} - 0,004879 P\{y_7 \cdot y_8\} \\
(55) \quad & (54),
\end{aligned}$$

$$\begin{aligned}
P_c & = 0,15 \cdot (0,119357 P\{y_7\} + 0,017519 P\{y_8\} - 0,004879 P\{y_7 \cdot y_8\}) \\
& \qquad \qquad \qquad y_7 \cdot y_8 \quad y_7 \cdot y_8
\end{aligned} \quad (56)$$

$\mathcal{S}^{(3)}$.

3.

$\mathcal{S}^{(3)}$

$$\begin{aligned}
& \cdot \\
& y_7 = 7 \cdot (y_4 \vee 6 \cdot y_5); \\
& P\{y_7\} = P_7 P\{y_4\} + P_6 P_7 P\{y_5\} - P_6 P_7 P\{y_4 \cdot y_5\} = \\
& = 0,7 P\{y_4\} + 0,42 P\{y_5\} - 0,42 P\{y_4 \cdot y_5\} \\
(57) \quad &
\end{aligned}$$

$$\begin{aligned}
& y_8 = 8 \cdot (6 \cdot y_4 \vee y_5); \\
& P\{y_8\} = P_6 P_8 P\{y_4\} + P_8 P\{y_5\} - P_6 P_8 P\{y_4 \cdot y_5\} = \\
& = 0,48 P\{y_4\} + 0,8 P\{y_5\} - 0,48 P\{y_4 \cdot y_5\} \\
(58) \quad &
\end{aligned}$$

$$\begin{aligned}
& y_7 \cdot y_8 = 7 \cdot 8 \cdot (y_4 \cdot y_5 \vee 6 \cdot y_4 \vee 6 \cdot y_5); \\
& P\{y_7 y_8\} = P_7 P_8 (P\{y_4 \cdot y_5\} + P_6 P\{y_4\} - P_6 P\{y_4 \cdot y_5\} + P_6 P\{y_5\}) = \\
& = P_7 P_8 (P_6 P\{y_4\} + P_6 P\{y_5\} - (1 - 2P_6) P\{y_4 \cdot y_5\}) = \\
& = 0,336 P\{y_4\} + 0,336 P\{y_5\} - 0,112 P\{y_4 \cdot y_5\} \\
(59) \quad &
\end{aligned}$$

(57-59) (56):

$$\begin{aligned}
P_c & = 0,15(0,083549 P\{y_4\} + 0,05013 P\{y_5\} - 0,05013 P\{y_4 \cdot y_5\} + \\
& + 0,008409 P\{y_4\} + 0,014015 P\{y_5\} - 0,008409 P\{y_4 \cdot y_5\} - \\
& - 0,001639 P\{y_4\} - 0,001639 P\{y_5\} + 0,000546 P\{y_4 \cdot y_5\}) = \\
& = 0,15(0,090319 P\{y_4\} + 0,062506 P\{y_5\} - 0,057993 P\{y_4 \cdot y_5\}) \\
(60) \quad &
\end{aligned}$$

$$y_4, y_5 \quad y_4 \cdot y_5 \quad -$$

$$S^{(4)} .$$

4:

$$y_4 = 4 \cdot (1 \vee 2) = 4 \cdot \overline{1} \cdot \overline{2}; \quad (61)$$

$$P\{y_4\} = P_4(1 - Q_1 Q_2) = 0,112$$

$$y_5 = 5 \cdot 2 \cdot 3; \quad (62)$$

$$P\{y_5\} = P_5 P_2 P_3 = 0,03$$

$$y_4 y_5 = 4 \cdot (1 \vee 2) \cdot 5 \cdot 2 \cdot 3 = 2 \cdot 3 \cdot 4 \cdot 5; \quad (63)$$

$$P\{y_4 \cdot y_5\} = P_2 P_3 P_4 P_5 = 0,012$$

(61-63) (60),

S

$$P_c = 0,15 \cdot (0,090319 \cdot 0,0112 + 0,062506 \cdot 0,03 - 0,057993 \cdot 0,012) = 0,001694 \quad (64)$$

,

$$\left\{ \begin{array}{l} (61) \\ (62) \\ (63) \end{array} \right\} \rightarrow \left\{ \begin{array}{l} (57) \\ (58) \\ (59) \end{array} \right\} \rightarrow (55) \rightarrow (54)$$

((54), (55), (60) (64))

$$S, \quad (\quad)$$

$$S^{(l)}, \quad l = \overline{1, L}.$$

4,7,8 - , 15 - . 14. 1,2 - [36] , 3, , 5, 6, 9 - 14, 16, 17 - .

$10, 12, 14 (X^{(1)}) \quad 9, 11, 13 (X^{(2)})$:

$$X^{(1)} = 10 \cdot 12 \cdot 14; \quad P_{X^{(1)}} = P_{10} P_{12} P_{14} = P^3 = 0,729 \quad (65)$$

$$X^{(2)} = 9 \cdot 11 \cdot 13; \quad P_{X^{(2)}} = P_9 P_{11} P_{13} = P^3 = 0,729 \quad (66)$$

= 0,9.

1.

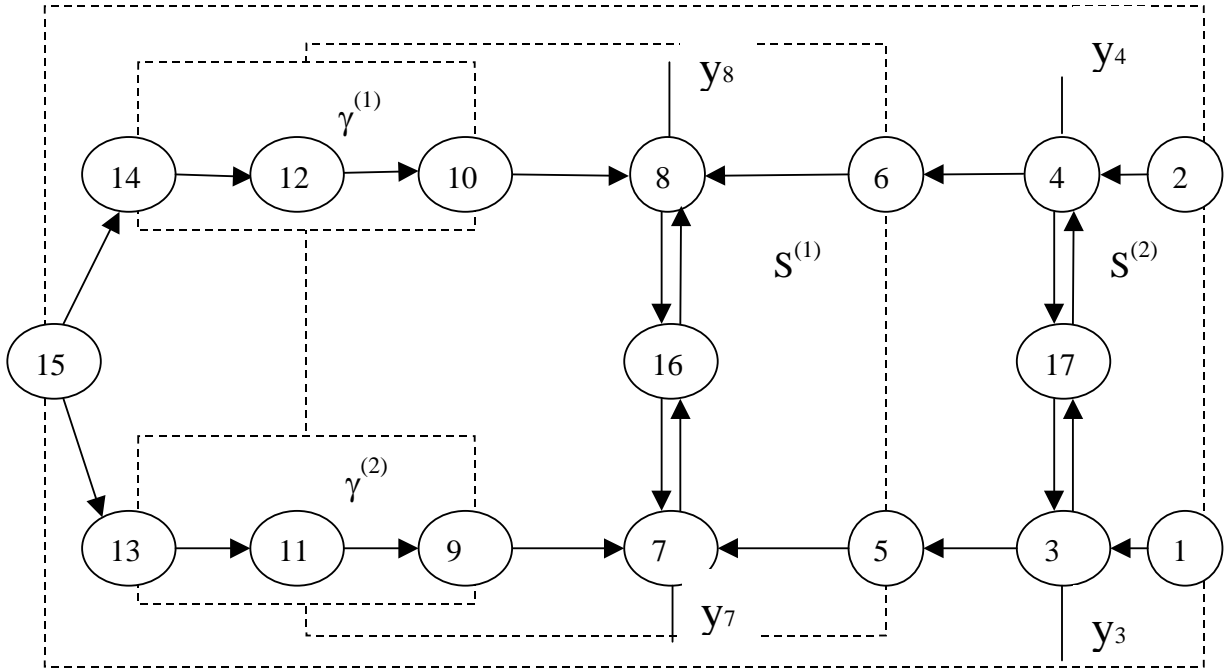
1, 2 15

$$y_7 \cdot y_8, \dots$$

7 8.

$S^1 \quad S^2$

(. 14).



.14.

1.

S^1

$y_7 \cdot y_8$

(22) (35):

$$y_7 \cdot y_8 = 7 \cdot 8 \quad y_5 \cdot y_6 \quad = 7 \cdot 8 \quad y_5 \cdot y_6 \cdot \overline{16} \cdot y_{x(1)} \cdot y_{x(2)}$$

$$\begin{vmatrix} y_5 \cdot 16 \\ y_6 \cdot 16 \\ y_{x(1)} \cdot y_{x(2)} \\ y_{x(1)} \cdot 16 \\ y_{x(2)} \cdot 16 \\ y_5 \cdot y_{x(1)} \\ y_6 \cdot y_{x(2)} \end{vmatrix} \quad \begin{vmatrix} y_5 \cdot 16 \cdot \bar{y}_{x(1)} \cdot \bar{y}_{x(2)} \\ y_6 \cdot 16 \cdot \bar{y}_{x(1)} \cdot \bar{y}_{x(2)} \\ y_{x(1)} \cdot y_{x(2)} \cdot \overline{16} \\ y_{x(1)} \cdot 16 \\ y_{x(2)} \cdot 16 \\ y_5 \cdot y_{x(1)} \cdot \overline{16} \cdot y_{x(2)} \\ y_6 \cdot y_{x(2)} \cdot \overline{16} \cdot y_{x(1)} \end{vmatrix}$$

(67)

$$16, y_{x(1)} \quad y_{x(2)} \cdot$$

$$P_c = P_7 P_8 [Q_{16} P\{y_5 \cdot y_6\} P\{\bar{y}_{x(1)} \cdot \bar{y}_{x(2)}\} + P_{16} P\{\bar{y}_{x(1)} \cdot \bar{y}_{x(2)}\} (P\{y_5\} + P\{y_6\} - P\{y_5 \cdot y_6\}) + Q_{16} P\{y_{x(1)} \cdot y_{x(2)}\} + P_{16} (P\{y_{x(1)}\} + P\{y_{x(2)}\} - P\{y_{x(1)} \cdot y_{x(2)}\}) + Q_{16} (P\{y_5\} P\{y_{x(1)} \cdot y_{x(2)}\} + P\{y_6\} P\{\bar{y}_{x(1)} \cdot y_{x(2)}\})]$$

(68)

$$y_5 \cdot y_6, y_{x(1)} \quad y_{x(2)}, \dots$$

$$(37). \quad (68) \quad :$$

$$y_5 \cdot y_6, \quad \bar{y}_{x(1)} \cdot \bar{y}_{x(2)}, \quad y_5, \quad y_6, \quad y_{x(1)}, \quad y_{x(2)}, \quad y_{x(1)} \cdot y_{x(2)}, \quad y_{x(1)} \cdot \bar{y}_{x(2)}, \quad \bar{y}_{x(1)} \cdot y_{x(2)},$$

$$(\quad)$$

$S^{(2)}$.

2:

$$y_5 \cdot y_6 = 3 \cdot 4 \cdot 5 \cdot 6 \cdot (1 \cdot 2 \vee 1 \cdot 17 \vee 2 \cdot 17) = 3 \cdot 4 \cdot 5 \cdot 6 \cdot (1 \cdot 2 \vee 1 \cdot \bar{2} \cdot 17 \vee \bar{1} \cdot 2 \cdot 17);$$

$$P\{y_5 \cdot y_6\} = P_3 P_4 P_5 P_6 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) = P^6 (1 + 2Q) = 0,637729 \quad (69)$$

$$\bar{y}_{x(1)} \cdot \bar{y}_{x(2)} = 1\bar{5} \vee \bar{x}^{(1)} \cdot \bar{x}^{(2)} = 1\bar{5} \vee 15 \cdot \bar{x}^{(1)} \cdot \bar{x}^{(2)};$$

$$P\{\bar{y}_{x(1)} \cdot \bar{y}_{x(2)}\} = Q_{15} + P_{15} Q_{x(1)} Q_{x(2)} = Q_{15} + P_{15} (1 - P_{10} P_{12} P_{14}) \cdot$$

$$\cdot (1 - P_9 P_{11} P_{13}) = Q + P(1 - P^3)^2 = 0,166097 \quad (70)$$

$$y_5 = 3 \cdot 5 \cdot (1 \vee 2 \cdot 4 \cdot 17) = 3 \cdot 5 \cdot (1 \vee \bar{1} \cdot 2 \cdot 4 \cdot 17);$$

$$P\{y_5\} = P_3 P_5 (P_1 + Q_1 P_2 P_4 P_{17}) = P^3 (1 + QP^2) = 0,788049 \quad (71)$$

$$y_6 = 4 \cdot 6 \cdot (2 \vee 1 \cdot 3 \cdot 17) = 4 \cdot 6 \cdot (2 \vee 1 \cdot \bar{2} \cdot 3 \cdot 17);$$

$$P\{y_6\} = P_4 P_6 (P_2 + P_1 Q_2 P_3 P_{17}) = P^3 (1 + QP^2) = 0,788049 \quad (72)$$

$$y_{x(1)} = x^{(1)} \cdot 15;$$

$$P\{y_{x(1)}\} = P_{x(1)} P_{15} = P_{10} P_{12} P_{14} P_{15} = P^4 = 0,6561 \quad (73)$$

$$y_{x(2)} = x^{(2)} \cdot 15;$$

$$P\{y_{x(2)}\} = P_{x(2)} P_{15} = P_9 P_{11} P_{13} P_{15} = P^4 = 0,6561 \quad (74)$$

$$y_{x(1)} \cdot y_{x(2)} = 15 \cdot x^{(1)} \cdot x^{(2)};$$

$$P\{y_{x(1)} \cdot y_{x(2)}\} = P_{15} P_{x(1)} P_{x(2)} = P_{15} P_{10} P_{12} P_{14} P_9 P_{11} P_{13} = P^7 = 0,478297 \quad (75)$$

$$y_{x(1)} \cdot \bar{y}_{x(2)} = 15 \cdot x^{(1)} \cdot \bar{x}^{(2)};$$

$$P\{y_{x(1)} \cdot \bar{y}_{x(2)}\} = P_{15} P_{x(1)} Q_{x(2)} = P_{15} P_{10} P_{12} P_{14} (1 - P_9 P_{11} P_{13}) = P^4 (1 - P^3) = 0,177803 \quad (76)$$

$$\bar{y}_{x(1)} \cdot y_{x(2)} = 15 \cdot \bar{x}^{(1)} \cdot x^{(2)};$$

$$P\{\bar{y}_{x(1)} \cdot y_{x(2)}\} = P_{15} Q_{x(1)} P_{x(2)} = P_{15} (1 - P_{10} P_{12} P_{14}) P_9 P_{11} P_{13} = P^4 (1 - P^3) = 0,177803 \quad (77)$$

(68),

$$P_c = 0,81 [0,1 \cdot 0,637729 \cdot 0,166097 + 0,9 \cdot 0,166097(0,788049 \cdot 2 - 0,637729)] +$$

$$+ 0,1 \cdot 0,478297 + 0,9(2 \cdot 0,6561 - 0,478297) + 0,1 (0,788049 \cdot 0,177803 \cdot 2) = 0,791558.$$

$$P_c = P^2 [QP^6(1+2Q)(Q+P(1-P^3)^2) + P(Q+P(1-P^3)^2)(2P^3(1+QP^2)-P^6(1+2Q)) + QP^7 + P(2P^4-P^7) + 2QP^7(1+QP^2)(1-P^3)]$$

2.

$y_7 \cdot y_8$

15

— 7, 8.

1.

$S^{(1)}$

$y_7 \cdot y_8$

15.

$$\begin{aligned} y_7 \cdot y_8 &= 7 \cdot 8 \cdot (y_5 \cdot y_6 \vee y_5 \cdot y_{x(1)} \vee y_6 \cdot y_{x(2)} \vee 16 \cdot (y_5 \cdot y_6)) = \\ &= 7 \cdot 8 \cdot (16(y_5 \cdot y_6 \vee y_5 \cdot y_{x(1)} \vee y_6 \cdot y_{x(2)}) \vee 16 \cdot (y_5 \cdot y_6)) \end{aligned}$$

16.

$$P_c = P_7 P_8 (Q_{16} (P\{y_5 \cdot y_6\} + P\{y_5\}P\{y_{x(1)}\} - P\{y_5 \cdot y_6\}P\{y_{x(1)}\} + P\{y_6\}P\{y_{x(2)}\} - P\{y_5 y_6\}P\{y_{x(2)}\})) + P_{16} (P\{y_5\} + P\{y_6\} - P\{y_5 \cdot y_6\})) \quad (78)$$

(68),

(. . . 14),

$y_5, y_6, y_{x(1)}, y_{x(2)},$

(37).

(78)

$y_5 \cdot y_6, y_5, y_6, y_{x(1)}, y_{x(2)}$

2.

$S^{(2)}$

$y_5 \cdot y_6, y_5, y_6, y_{x(1)}, y_{x(2)}$

(69), (71), (72), (73), (74)

(78),

$$= 0,81 (0,1 (0,637729 + 2 \cdot 0,788049 \cdot 0,6561 - 2 \cdot 0,637729 \cdot 0,6561) + 0,9(2 \cdot 0,788049 - 0,637729)) = 0,751704;$$

$$P_c = P^2 (Q(P^6(1+2Q) + 2P^7(1-QP^2) - 2P^{10}(1+2Q)) + P(2P^3(1+QP^2) - P^6(1+2Q)));$$

$$\begin{aligned}
P_c = & P_7 P_8 (Q_{16} [P_3 P_4 P_5 P_6 (P_1 P_2 + P_1 P_{17} Q_2 + P_2 P_{17} Q_1) + P_3 P_5 (P_1 + Q_1 P_2 P_4 P_{17}) P_{10} P_{12} P_{14} P_{15} - \\
& - P_3 P_4 P_5 P_6 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) P_{10} P_{12} P_{14} P_{15} + P_4 P_6 (P_2 + Q_2 P_1 P_3 P_{17}) P_9 P_{11} P_{13} P_{15} - \\
& - P_3 P_4 P_5 P_6 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) P_9 P_{11} P_{13} P_{15}] + P_{16} [P_3 P_5 (P_1 + Q_1 P_2 P_4 P_{17}) + \\
& + P_4 P_6 (P_2 + P_1 Q_2 P_3 P_{17}) - P_3 P_4 P_5 P_6 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17})])
\end{aligned}$$

3.

$$y_3 \cdot y_4 \cdot y_7 \cdot y_8, \dots$$

15.

$S^{(1)}$

7 8.

3 4,

$S^{(2)}$.

\tilde{y}_i ,

() i .

1:

$$\begin{aligned}
y_3 \cdot y_4 \cdot y_7 \cdot y_8 &= y_3 \cdot y_4 [7 \cdot 8 \cdot (y_5 \cdot y_6) \vee y_5 \cdot y_{x(1)} \vee y_6 \cdot y_{x(2)} \vee 16 \cdot (y_5 \cdot y_6)] = \\
&= 7 \cdot 8 \cdot (1\bar{6} (y_3 \cdot y_4 \cdot y_5 \cdot y_6 \vee y_3 \cdot y_4 \cdot y_5 \cdot y_{x(1)} \vee y_3 \cdot y_4 \cdot y_6 \cdot y_{x(2)}) \vee \\
&\quad \vee 16 \cdot (y_3 \cdot y_4 \cdot y_5 \vee y_3 \cdot y_4 \cdot y_6))
\end{aligned}$$

$$\begin{aligned}
P_c = & P\{y_3 \cdot y_4 \cdot y_7 \cdot y_8\} = P_7 P_8 (Q_{16} (P\{y_3 \cdot y_4 \cdot y_5 \cdot y_6\} + P\{y_3 \cdot y_4 \cdot y_5\} P\{y_{x(1)}\}) - \\
& - P\{y_3 \cdot y_4 \cdot y_6\} P\{y_{x(2)}\}) - P\{y_3 \cdot y_4 \cdot y_5 \cdot y_6\} P\{y_{x(2)}\}) + \\
& + P_{16} (P\{y_3 \cdot y_4 \cdot y_5\} + P\{y_3 \cdot y_4 \cdot y_6\} - P\{y_3 \cdot y_4 \cdot y_5 \cdot y_6\})
\end{aligned} \tag{79}$$

(78)

$$y_3 \cdot y_4 \cdot y_5 \cdot y_6, \quad y_3 \cdot y_4 \cdot y_5, \quad y_3 \cdot y_4 \cdot y_6, \quad y_{x(1)}, \quad y_{x(2)}$$

2:

$$y_3 \cdot y_4 \cdot y_5 \cdot y_6 = 3 \cdot 4 \cdot 5 \cdot 6 \cdot (1 \cdot 2 \vee 1 \cdot 17 \vee 2 \cdot 17) = 3 \cdot 4 \cdot 5 \cdot 6 \cdot (1 \cdot 2 \vee 1 \cdot \bar{2} \cdot 17 \vee \bar{1} \cdot 2 \cdot 17); \tag{80}$$

$$P\{y_3 \cdot y_4 \cdot y_5 \cdot y_6\} = P_3 P_4 P_5 P_6 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) = P^6 (1 + 2Q) = 0,637729$$

$$y_3 \cdot y_4 \cdot y_5 = 3 \cdot 4 \cdot 5 \cdot (1 \cdot 2 \vee 1 \cdot 17 \vee 2 \cdot 17) = 3 \cdot 4 \cdot 5 \cdot (1 \cdot 2 \vee 1 \cdot \bar{2} \cdot 17 \vee \bar{1} \cdot 2 \cdot 17);$$

$$P\{y_3 \cdot y_4 \cdot y_5\} = P_3 P_4 P_5 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) = P^5 (1 + 2Q) = 0,708588$$

(81)

$$y_3 \cdot y_4 \cdot y_6 = 3 \cdot 4 \cdot 6 \cdot (1 \cdot 2 \vee 1 \cdot 17 \vee 2 \cdot 17) = 3 \cdot 4 \cdot 6 \cdot (1 \cdot 2 \vee 1 \cdot \bar{2} \cdot 17 \vee \bar{1} \cdot 2 \cdot 17);$$

$$P\{y_3 \cdot y_4 \cdot y_6\} = P_3 P_4 P_6 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) = P^5 (1 + 2Q) = 0,708588$$

(82)

$$y_{x(1)} = x^{(1)} \cdot 15; \tag{83}$$

$$P\{y_{x(1)}\} = P_{x(1)} P_{15} = P_{10} P_{12} P_{14} P_{15} = P^4 = 0,6561$$

$$y_{x(2)} = x^{(2)} \cdot 15; \tag{84}$$

$$P\{y_{x(2)}\} = P_{x(2)} P_{15} = P_9 P_{11} P_{13} P_{15} = P^4 = 0,6561$$

$$(79), \quad :$$

$$= 0,81(0,1(0,637729 + 2 \cdot 0,708588 \cdot 0,6561 - 2 \cdot 0,637729 \cdot 0,6561) + 0,9(2 \cdot 0,708588 - 0,637729)) = 0,627404;$$

$$P_c = P_3 P_4 P_7 P_8 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) (Q_{16} (P_5 P_6 + P_5 P_{10} P_{12} P_{14} P_{15} -$$

$$- P_5 P_6 P_{10} P_{12} P_{14} P_{15} + P_6 P_9 P_{11} P_{13} P_{15} - P_5 P_6 P_9 P_{11} P_{13} P_{15})) + P_{16} (P_5 + P_6 - P_5 P_6)) \tag{85}$$

4.

[3]

$$\langle_i \{Y\} = \frac{\partial P\{Y\}}{\partial P_i}$$

$$\langle_i \langle_i \{Y_k\}$$

1.

$$\langle_5 \tag{79}$$

$$\langle_5 = \frac{\partial P_c}{\partial P_5} = \langle_5 \{y_3 \cdot y_4 \cdot y_7 \cdot y_8\} = P_7 P_8 (Q_{16} (\langle_5 \{y_3 \cdot y_4 \cdot y_5 \cdot y_6\} + \langle_5 \{y_3 \cdot y_4 \cdot y_5\} P\{y_{x(1)}\}) -$$

$$- \langle_5 \{y_3 \cdot y_4 \cdot y_5 \cdot y_6\} P\{y_{x(1)}\}) - \langle_5 \{y_3 \cdot y_4 \cdot y_5 \cdot y_6\} P\{y_{x(2)}\}) +$$

$$+ P_{16} (\langle_5 \{y_3 \cdot y_4 \cdot y_5\} - \langle_5 \{y_3 \cdot y_4 \cdot y_5 \cdot y_6\})) \tag{86}$$

(86)

$$\langle_5 \{y_{x(1)}\} = \langle_5 \{y_{x(2)}\} = \langle_5 \{y_3 y_4 y_6\} = 0$$

2.

$$\langle_5 \{y_3 \cdot y_4 \cdot y_5 \cdot y_6\} = P_3 P_4 P_6 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) =$$

$$= P^5 (1 + 2Q) = 0,708588 \tag{87}$$

$$\langle_5 \{y_3 \cdot y_4 \cdot y_5\} = P_3 P_4 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) =$$

$$= P^4 (1 + 2Q) = 0,78732 \tag{88}$$

$$(87), (88), \quad (83) \quad (84) \quad (86),$$

$$\xi_5 = 0,81 (0,1 (0,708588 + 0,78732 \cdot 0,6561 - 2 \cdot 0,708588 \cdot 0,6561) +$$

$$+0,9(0,78732 - 0,708588) = 0,081318 \quad (89)$$

$$\begin{aligned} \langle_5 = & P_3 P_4 P_7 P_8 (P_1 P_2 + P_1 Q_2 P_{17} + Q_1 P_2 P_{17}) (Q_{16} (P_6 + P_{10} P_{12} P_{14} P_{15} - \\ & - P_6 P_{10} P_{12} P_{14} P_{15} + P_6 P_9 P_{11} P_{13} P_{15})) + P_{16} (1 - P_6) \end{aligned} \quad (90)$$

$$\frac{\partial P_c}{\partial P_5} \quad (85) \quad (90),$$

\langle_5

4.4.

[3, 39].

[36]

$$y_c(\tilde{1}, \tilde{2}, \dots, \tilde{i}, \dots, \tilde{N}) = i \cdot y_c^{(i)} \vee \bar{i} \cdot y_c^{(\bar{i})}, \quad (91)$$

$$y_c^{(i)} = y_c(\tilde{1}, \tilde{2}, \dots, i \approx 1, r, i \nabla 1, \dots, \tilde{N})$$

$$r = \begin{cases} I & \tilde{i} = i; \\ 0 & \tilde{i} = \bar{i}; \end{cases}$$

$$y_c^{(\bar{i})} = y_c(\tilde{1}, \tilde{2}, \dots, i \approx 1, s, i \nabla 1, \dots, \tilde{N})$$

$$s = \begin{cases} 0 & \tilde{i} = i; \\ I & \tilde{i} = \bar{i}. \end{cases}$$

(91),

$$P_c = P\{y_c = I\} = P_i P_c^{(i)} + Q_i P_c^{(\bar{i})} \quad (92)$$

$$P_c^{(i)} = P\{y_c^{(i)} = I\};$$

$$P_c^{(\bar{i})} = P\{y_c^{(\bar{i})} = I\};$$

(91)

[36].

[36].

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1. i S

(91). $S^{(l)}$ $P_c^{(l)}$ $l = \overline{1, L}$

2. $S^{(l)}$

3. (92), S .

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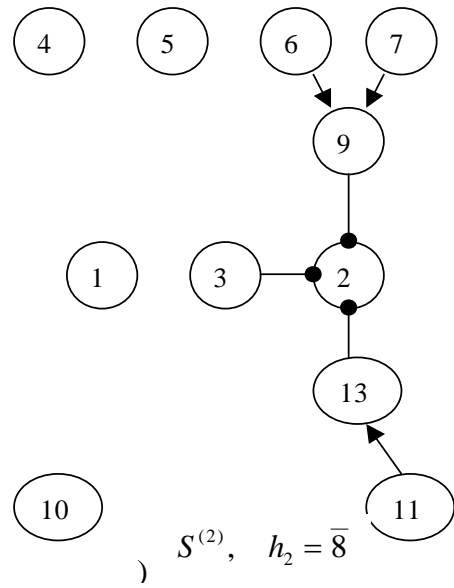
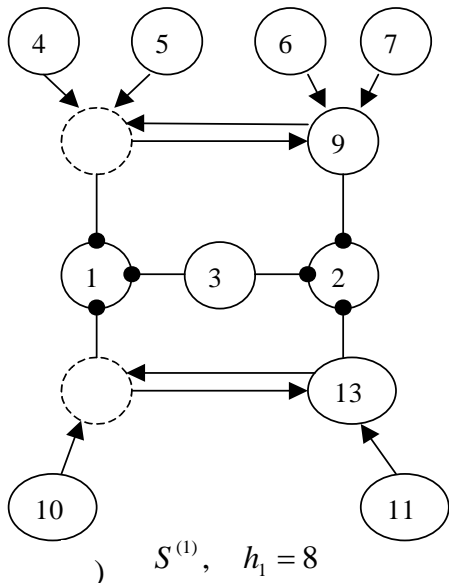
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 -
 (11) $y_c = y_1 \vee y_2$,
 $P_i = P = 0,9, \quad i = \overline{1,11}$.
 -
 -
 (, -
 -
) 8. .5 , (. 2
 § 1). , 8 12.
 (91) ()
 8 $S^{(1)} S^{(2)}$, .15,
 . $S^{(1)}$ (. .5,) -
 (91) $h_1 = 8$, , 8 12
 . $S^{(2)}$
 $h_2 = \overline{8}$ 8 12 -
 , . . " " (91) (92)
 $y_c = y_1 \vee y_2 = 8 \cdot y_c^{(8)} \vee \overline{8} \cdot y_c^{(\overline{8})} = 8 \cdot y_{S^{(1)}} \vee \overline{8} \cdot y_{S^{(2)}};$ (93)
 $P_c = P_8 P_c^{(8)} + Q_8 P_c^{(\overline{8})} = P_8 P_{S^{(1)}} + Q_8 P_{S^{(2)}}$ (94)
 $y_c^{(8)} = y_{S^{(1)}} S^{(1)}, \quad y_c^{(\overline{8})} = y_{S^{(2)}} -$
 $S^{(1)} S^{(2)}$, .15, $S^{(2)}$,
 . $S^{(1)}$,
 9. $S^{(3)} S^{(4)}$.16. $S^{(3)}$
 $S^{(1)}$ $h_3 = 9, \dots$ 9,
 $S^{(4)}$ - $h_4 = \overline{9}, \dots$ $S^{(1)}$ 9 13 -



.15.

8

$$\begin{aligned}
 & \left(\dots .5, \right) \quad , \quad S^{(3)} \quad S^{(4)} \quad - \\
 & y_c^{(8)} \quad P_c^{(8)} \quad (93) \quad (94) \quad 8 \quad 9 \quad 8 \cdot 9 \quad 8 \cdot \bar{9} .
 \end{aligned}$$

$$y_c^{(8)} = y_{S^{(1)}} = 9 \cdot y_{S^{(1)}}^{(9)} \vee y_{S^{(1)}}^{(\bar{9})} \cdot \bar{9} = 9 \cdot y_{S^{(3)}} \vee \bar{9} \cdot y_{S^{(4)}} \quad (95)$$

$$P_c^{(8)} = P_{S^{(1)}} P_9 P_{S^{(1)}}^{(9)} + Q_9 P_{S^{(1)}}^{(\bar{9})} = P_9 P_{S^{(3)}} + Q_9 P_{S^{(4)}} \quad (96)$$

$$(95) \quad (96) \quad (93) \quad (94),$$

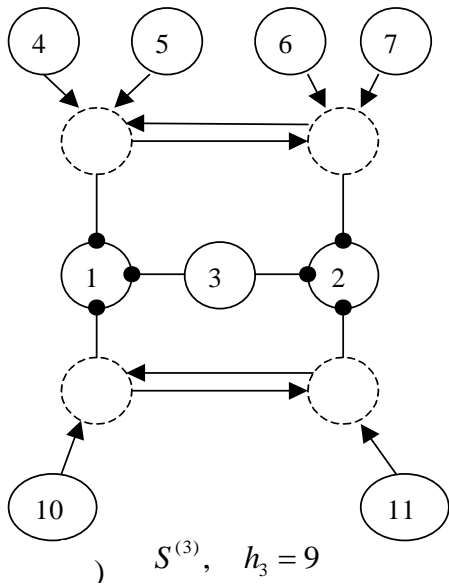
$$y_c = 8 \cdot 9 \cdot y_{S^{(3)}} \vee 8 \cdot \bar{9} \cdot y_{S^{(4)}} \vee \bar{8} \cdot y_{S^{(2)}} \quad (97)$$

$$P_c = P_8 P_9 P_{S^{(3)}} + P_8 Q_9 P_{S^{(4)}} + Q_8 P_{S^{(2)}} \quad (98)$$

$$y_{S^{(3)}}, \quad y_{S^{(4)}}, \quad y_{S^{(2)}}, \quad P_{S^{(3)}}, \quad P_{S^{(4)}}, \quad P_{S^{(2)}} \quad -$$

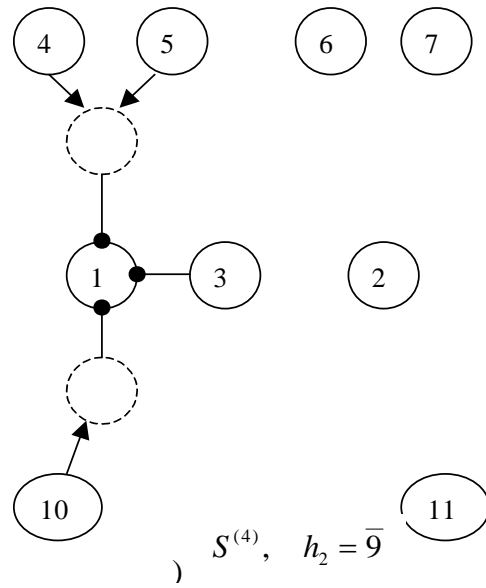
.16, :

$$\begin{aligned}
 y_{S^{(3)}} &= y_1 \vee y_2 = 3 \cdot (1 \vee 2) \cdot (4 \vee 5 \vee 6 \vee 7) \cdot (10 \vee 11); \\
 P_{S^{(3)}} &= P_3 (1 - Q_1 Q_2) (1 - Q_4 Q_5 Q_6 Q_7) (1 - Q_{10} Q_{11}) = P (1 - Q^4) (1 - Q^2)^2 = 0,882
 \end{aligned} \quad (99)$$



$S^{(3)}, h_3 = 9$

.16.



$S^{(4)}, h_2 = \bar{9}$

$S^{(1)} \quad 9$

.16

:

$$y_{S^{(4)}} = y_1 \vee y_2 = 1 \cdot 3 \cdot (4 \vee 5) \cdot 10;$$

$$P_{S^{(4)}} = P_1 P_3 P_{10} (1 - Q_4 Q_5) = P^3 (1 - Q^2) = 0,72171$$

(100)

15

:

$$y_{S^{(2)}} = y_1 \vee y_2 = 2 \cdot 3 \cdot 9 \cdot 11 \cdot (6 \vee 7);$$

$$P_{S^{(2)}} = P_2 P_3 P_9 P_{11} (1 - Q_6 Q_7) = P^4 (1 - Q^2) = 0,649539$$

(101)

(99)-

(101)

(98)

:

$$= 0,81 \bar{0},882 + 0,09 \bar{0},72171 + 0,1 \bar{0},649539 = 0,844328;$$

$$P_c = P(1 - Q^2)^2 (1 - Q^4) + P^3 (1 - Q^2) + P^4 (1 - Q^2);$$

$$P_c = P_8 P_9 P_3 (1 - Q_1 Q_2) (1 - Q_4 Q_5 Q_6 Q_7) (1 - Q_{10} Q_{11}) +$$

$$+ P_8 P_9 P_1 P_3 P_{10} (1 - Q_4 Q_5) + Q_8 P_2 P_3 P_9 P_{11} (1 - Q_6 Q_7)$$

(102)

(102)

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8 9.

$$\begin{aligned}
 h_1 &= 8 \cdot 9; \\
 h_2 &= 8 \cdot \bar{9}; \\
 h_3 &= \bar{8} \cdot 9; \\
 h_4 &= \bar{8} \cdot \bar{9}
 \end{aligned}
 \tag{103}$$

16 , (99), . . .

$$y_c^{(8 \cdot 9)} = 3 \cdot (1 \vee 2) \cdot (4 \vee 5 \vee 6 \vee 7) \cdot (10 \vee 11);$$

$$P_c^{(8 \cdot 9)} = P_3(1 - Q_1 Q_2)(1 - Q_4 Q_5 Q_6 Q_7)(1 - Q_{10} Q_{11}) = P(1 - Q^2)^2(1 - Q^4) = 0,882$$

16 (100), . . .

$$\begin{aligned}
 y_c^{(8 \cdot \bar{9})} &= 1 \cdot 3 \cdot 10 \cdot (4 \vee 5); \\
 P_c^{(8 \cdot \bar{9})} &= P_1 P_3 P_{10} (1 - Q_4 Q_5) = P^3(1 - Q^2) = 0,72171.
 \end{aligned}
 \tag{105}$$

1) 16 (" h_2 h_3 (103), "). (. 5)

$$P_c^{(\bar{8} \cdot 9)} = P_2 P_3 P_{11} (1 - Q_6 Q_7) = P^3(1 - Q^2) = 0,72171 \tag{106}$$

2) h_4 (103), \dots
 (104) (105)
 $P_c = P^3(1-Q^2)^2(1-Q^4) + 2P^4Q(1-Q^2) = 0,81 \cdot 0,882 + 2 \cdot 0,09 \cdot 0,72171 = 0,844328$ (107)

() , $1 \text{ § } 1$
 $y_c = y_{16} \cdot y_{17} \cdot y_{18}$, $P_i = P = 0,9, i = \overline{1, 15}$. (7)

4, 6 9.
 $h_1 = 4 \cdot 6 \cdot 9, P_{h_1} = P^3 = 0,729;$ (108)
 $h_2 = 4 \cdot 6 \cdot \bar{9}, P_{h_2} = P^2Q = 0,081;$
 $h_3 = 4 \cdot \bar{6} \cdot 9, P_{h_3} = P^2Q = 0,081;$
 $h_4 = \bar{4} \cdot 6 \cdot 9, P_{h_4} = P^2Q = 0,081;$
 $h_5 = 4 \cdot \bar{6} \cdot \bar{9};$ (109)
 $h_6 = \bar{4} \cdot 6 \cdot \bar{9};$
 $h_7 = \bar{4} \cdot \bar{6} \cdot 9;$
 $h_8 = \bar{4} \cdot \bar{6} \cdot \bar{9}.$

$h_5 - h_8$
 h_2, h_3 h_4 , h_1 h_2 .

$P_c = P^3 P_c^{(4 \cdot 6 \cdot 9)} + 3P^2 Q P_c^{(4 \cdot 6 \cdot \bar{9})}$ (110)

$S^{(1)}$ $P_c^{(4 \cdot 6 \cdot 9)}$
 . 17 . ,
 5, 7 8.

$h_1 = 5 \cdot 7 \cdot 8, P_{h_1} = P^3 = 0,729;$ (111)

$$\begin{aligned}
h_{1,2} &= 5 \cdot 7 \cdot \bar{8}, & P_{h_{1,2}} &= P^2 Q = 0,081; \\
h_{1,3} &= 5 \cdot \bar{7} \cdot 8, & P_{h_{1,3}} &= P^2 Q = 0,081;
\end{aligned} \tag{112}$$

$$\begin{aligned}
h_{1,4} &= \bar{5} \cdot 7 \cdot 8, & P_{h_{1,4}} &= P^2 Q = 0,081; \\
h_{1,5} &= 5 \cdot \bar{7} \cdot \bar{8}, & P_{h_{1,5}} &= P^2 Q = 0,009; \\
h_{1,6} &= \bar{5} \cdot 7 \cdot \bar{8}, & P_{h_{1,6}} &= P^2 Q = 0,009; \\
h_{1,7} &= \bar{5} \cdot \bar{7} \cdot 8, & P_{h_{1,7}} &= P^2 Q = 0,009;
\end{aligned} \tag{113}$$

$$h_{1,8} = \bar{5} \cdot \bar{7} \cdot \bar{8}, \quad P_{h_{1,8}} = Q^3 = 0,001. \tag{114}$$

$$: h_{1,2}, \quad h_{1,3}, \quad h_{1,4}, \quad h_{1,5}, \quad h_{1,6}, \quad h_{1,7}. \quad P_c^{(4,5,6)} = P_{S^{(1)}}$$

$$\begin{aligned}
P_c^{(4,5,6)} &= P_{S^{(1)}} = P^3 P_{S^{(1)}}^{(5,7,8)} + 3P^2 Q P_{S^{(1)}}^{(5,7,\bar{8})} + 3P Q^2 P_{S^{(1)}}^{(5,\bar{7},\bar{8})} + Q^3 P_{S^{(1)}}^{(\bar{5},\bar{7},\bar{8})} \\
&P_{S^{(1)}}^{(5,7,8)} \cdot y_{16} \cdot y_{17} \cdot y_{18}
\end{aligned} \tag{115}$$

. 17,

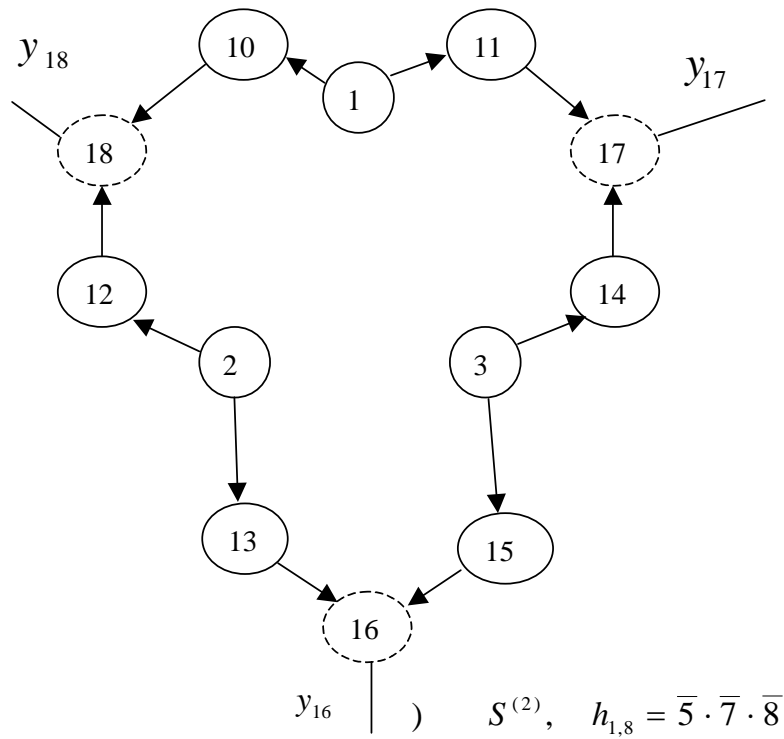
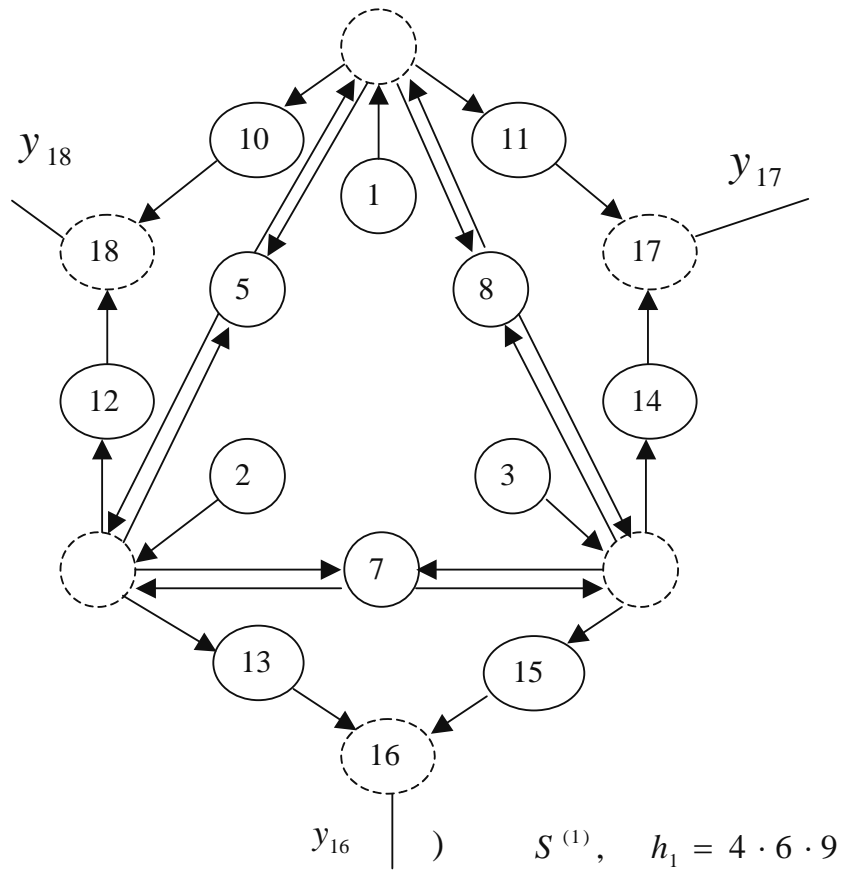
$$y_{S^{(1)}}^{(5,7,8)} = (1 \vee 2 \vee 3) \cdot (10 \vee 12) \cdot (11 \vee 14) \cdot (13 \vee 15);$$

$$P_{S^{(1)}}^{(5,7,8)} = (1 - Q^3)(1 - Q^2)^3 = 0,969329 \tag{116}$$

$P_{S^{(1)}}^{(5,7,\bar{8})}$:

$$y_{S^{(1)}}^{(5,7,\bar{8})} = (1 \vee 2 \vee 3) \cdot (10 \vee 12) \cdot (11 \vee 14) \cdot (13 \vee 15);$$

$$P_{S^{(1)}}^{(5,7,\bar{8})} = (1 - Q^3)(1 - Q^2)^3 = 0,969329$$



$$\begin{aligned}
h_{1.8.2} &= 1 \cdot 2 \cdot \bar{3}, & P_{h_{1.8.2}} &= P^2 Q = 0,081; \\
h_{1.8.3} &= 1 \cdot \bar{2} \cdot 3, & P_{h_{1.8.3}} &= P^2 Q = 0,081; \\
h_{1.8.4} &= \bar{1} \cdot 2 \cdot 3, & P_{h_{1.8.4}} &= P^2 Q = 0,081; \\
h_{1.8.5} &= 1 \cdot \bar{2} \cdot \bar{3}; \\
h_{1.8.6} &= \bar{1} \cdot 2 \cdot \bar{3}; \\
h_{1.8.7} &= \bar{1} \cdot \bar{2} \cdot 3; \\
h_{1.8.8} &= \bar{1} \cdot \bar{2} \cdot \bar{3}.
\end{aligned} \tag{120}$$

$h_{1.8.2}, h_{1.8.3}, h_{1.8.4}$

$P_{S^{(1)}}^{(\bar{5}\bar{7}\bar{8})}$

$$P_{S^{(1)}}^{(\bar{5}\bar{7}\bar{8})} = P^3 P_{S^{(2)}}^{(1.2.3)} + 3P^2 Q P_{S^{(2)}}^{(1.2.\bar{3})} \tag{121}$$

$P_{S^{(2)}}^{(1.2.3)}$:

$$y_{S^{(2)}}^{(1.2.3)} = (11 \vee 14) \cdot (10 \vee 12) \cdot (13 \vee 15); \tag{122}$$

$$P_{S^{(3)}}^{(1.2.3)} = (1 - Q^2)^3 = 0,9703$$

$P_{S^{(2)}}^{(1.2.\bar{3})}$:

$$y_{S^{(2)}}^{(1.2.\bar{3})} = 11 \cdot 13 \cdot (10 \vee 12); \tag{123}$$

$$P_{S^{(2)}}^{(1.2.\bar{3})} = P^2 (1 - Q^2) = 0,8019$$

(122) (123) (121),

$$P_{S^{(1)}}^{(\bar{5}\bar{7}\bar{8})} = P^3 (1 - Q^2)^3 + 3P^4 (1 - Q^2) = 0,729 \cdot 0,9703 + 3 \cdot 0,081 \cdot 0,8019 = 0,90221 \tag{124}$$

(116)-(118) (124)

(115)

$P_c^{(4.6.9)}$

(110):

$$\begin{aligned}
P_c^{(4.6.9)} &= P_{S^{(1)}} = P^3 (1 - Q^2) (1 - Q^3)^3 + 3P^2 Q (1 - Q^2) (1 - Q^3)^3 + \\
&+ 3PQ^2 (1 - Q^2)^2 (P^2 + 2P^3 Q + P^3 Q^2) + Q^3 (P^3 (1 - Q^3)^3 + 3P^4 Q (1 - Q^2)) = \\
&= 0,729 \cdot 0,969329 + 3 \cdot 0,081 \cdot 0,969329 + 3 \cdot 0,009 \cdot 0,943925 + \\
&+ 0,001 \cdot 0,90221 = 0,968576
\end{aligned} \tag{125}$$

$P_c^{(4.6.\bar{9})}$

(110)

$S^{(3)}$

$h_2 = 4 \cdot 6 \cdot \bar{9}$ (

$S^{(3)}$

. 17):

$$\begin{aligned}
y_c^{(4\bar{6}\bar{9})} &= 11 \cdot (1 \vee 5 \cdot 2) \cdot 13 \cdot (2 \vee 5 \cdot 1) \cdot (10 \cdot (1 \vee 5 \cdot 2) \vee 12 \cdot (2 \vee 5 \cdot 1)) = \\
&= 11 \cdot 13 \cdot (1 \vee 5 \cdot 2) \cdot (2 \vee 5 \cdot 1) \cdot (10 \cdot \vee 12) = \\
&= 11 \cdot 13 \cdot (1 \cdot 2 \vee 1 \cdot 5 \cdot \bar{2} \vee 2 \cdot 5 \cdot \bar{1}) \cdot (10 \cdot \vee 12)
\end{aligned} \tag{126}$$

$$P_c^{(4\bar{6}\bar{9})} = P_{S^{(3)}} = P^2 (P^2 + 2P^2 Q) (1 - Q^2) = P^4 (1 + 2Q) (1 - Q^2) = 0,779447 \tag{125} \quad (126) \quad (110),$$

$$\begin{aligned}
&: \\
P_c &= 0,729 \cdot 0,968576 + 3 \cdot 0,081 \cdot 0,779447 = 0,895498 \\
P_c &= P^3 ((1 - Q^3) (1 - Q^2)^3 (P^3 + 3P^2 Q) + 3PQ^2 (1 - Q^2)^2 (P^2 + 2P^3 Q + P^3 Q^2) + \\
&+ Q^3 (P^3 (1 - Q^2)^3 + 3P^4 Q (1 - Q^2))) + 3P^6 Q (1 + 2Q) (1 - Q^2)
\end{aligned} \tag{127}$$

. 2, 1, I.

$$\begin{aligned}
&0,001 [34], \\
&P_{S^{(1)}}^{(\bar{5}\bar{7}\bar{8})} \\
&(79)-(84), (87)-(89) \quad (97) \\
P_c^{(\min)} &= 0,729 \cdot (0,729 \cdot 0,969329 + 3 \cdot 0,081 \cdot 0,969329 + 3 \cdot 0,009 \cdot 0,943925) + \\
&+ 3 \cdot 0,081 \cdot 0,779447 = 0,894839
\end{aligned} \tag{128}$$

$$\begin{aligned}
&0,001, \\
P_c^{(\max)} &= P_c^{(\min)} + P_{h_{1,8}} = 0,895839
\end{aligned} \tag{129}$$

$$\begin{aligned}
&P_c \\
&(129) \quad 0,5P_{h_{1,8}} \\
\hat{P}_c &= P_c^{(\min)} + 0,5P_{h_{1,8}} = 0,895339 \tag{130} \\
&(128-130) \tag{127}
\end{aligned}$$

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1. // . .-
 ∴ . , 1969. - 488 .
2. . .
 . - ∴ , 1966. - 276 .
3. . ∴ . . . - ∴
 , 1965. - 464 .
4. . .
 . - ∴ , 1983.
5. . . . - ∴ . , 1972. - 551 .
6. . ∴ . . ,
 . — , 1984, 12.
7. . ∴ . ∴ . . . -
 . - ∴ , 1984.
8. . ∴ . ∴ . . .
 . - ∴ , 1965. - 524 .
9. . ∴ -
 , 10. ∴ , 1982.
10. . . . - ∴ ,
 1977. - 159 .
11. . . . - ∴ -
 , 1986. - 32 .
12. . ∴ . ∴ . . . -
 . - ∴ . -
 . , 1988. - 115 .
13. - ∴ ,
 1975.
14. . ∴ . ∴ . . . -
 . —
 . . . 30. ∴ , 1984.
15. . . . ,
 - ∴ , 1989. - 216 .
16. . .
 . — , 1976, 8.

17. -
 . - ∴ . , 1975. - 472 .
18. - ,
 1958, .13, 4, .3-28.
19. -
 . -
 , . 10,
 1976.
20. //
 - ∴ , 1985. - 288 .
21. - ∴ , 1986. -
 367 .
22. -
23. ∴ , 1984. -134
 -
 . - ∴
24. 10. ∴ , 1986.
 -
25. . - ∴ , 1987.
 . .1. .
 . // - ∴ , 1981. -
 224 .
26.2. -
 // - ∴
 , 1981. - 224 .
27. // , -
 , - ∴ , 1985. - 608 .
28.
 . - ∴ . , 1968.
29. - ∴ . ,
 1972. - 167 .
30. - ∴ , 1964. - 446 .

