





3.

( - ) , [16].

4.

MCS  
 $= \{h_i, i = 1, \dots, 4\}$  :

- ,  $h_1 (h_{11} -$  ,  $h_{12} -$  ;

- ,  $h_2 (h_{21} -$  ,  $h_{22} -$  );

- ,  $h_3 (h_{31} -$  ,  $h_{32} -$  );

- ,  $h_4 ($   $h_{ij})$  ).

$h_i ($   $0$   $1$   $h_{ij})$  (1)

(0)

$MS = \{SC_q, q = 1, \dots, w\},$ 
 $h_i \in$ 
 $SC_q \sim \langle h_{iq} \rangle.$

$S_1 -$ 
 $($ 
 $);$

$S_2 -$ 
 $($ 
 $);$ 
 $s_1 = \{\forall i = 1, \dots, 4: h_i = 0\};$

$S_3 -$ 
 $s_2 = \{h_1 = h_2 = h_4 = 0, h_{31} = 1\};$

$S_4 -$ 
 $($ 
 $);$ 
 $s_3 = \{h_{12} = 1, h_2 = h_3 = h_4 = 0\};$

$($ 
 $);$ 
 $s_4 = \{h_{12} = h_4 = 1, h_2 = h_3 = 0\}$

MCS

[13,14].

1 ( SC1)

( )

2 ( SC2)

3 ( SC3).

4 ( SC4).

SC4

( )

( .1).

. 1.

/	-	-	-	-	
1	SC1	1	-1.0		( )
2	SC1	1	-1.1	sw sw max	
3	SC2	2	-2.1	sw sw min ( 0)	,
4	SC2	2	-2.2	sw sw min ( 0)	
5	SC2	2	-2.3	sw sw min ( 0)	
6	SC3	3	-3.1	sw sw min ( 0)	,
7	SC3	3	-3.2	sw sw min ( 0)	
8	SC3	3	-3.3	sw sw min ( 0)	
9	SC4	4	-4.1	sw sw min ( 0)	
10	SC4	4	-4.2	sw sw min ( 0)	

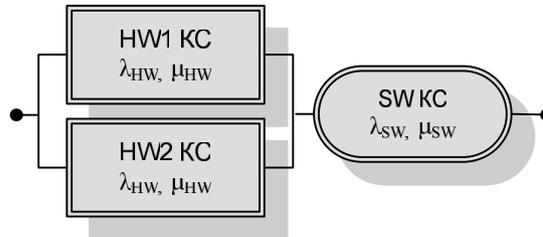
,

. { -1.1; -2.1; -2.2}, { -3.1; -3.2;

-4.1} { -3.3; -4.2}

5.

( . 1).



. 1.

—  
—  
—  
—

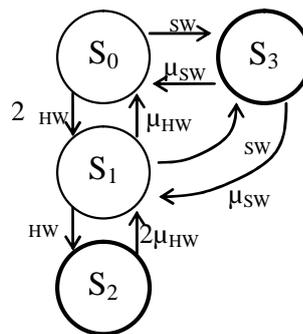
$\mu_{sw} (1/ \dots)$

$sw (1/ \dots)$

$HW (1/ \dots)$

$\mu_{HW} (1/ \dots)$

. 2



. 2.

$S_{21}$

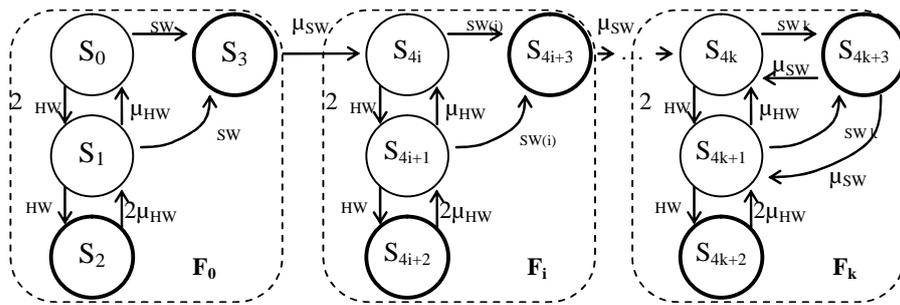
( , ) ,

sw.

[13].

-1.1, -2.1, -2.2 ,

. 3.



. 3.

-1.1

$S_0$ .

,  $S_1$  ( , ) ,  $S_2$  ( ( ,  $S_0$   $S_1$ ). )

$S_3$ .

(  $S_{4i}$ ),

$\lambda_{sw i}$ .

sw

sw max.

-2.1

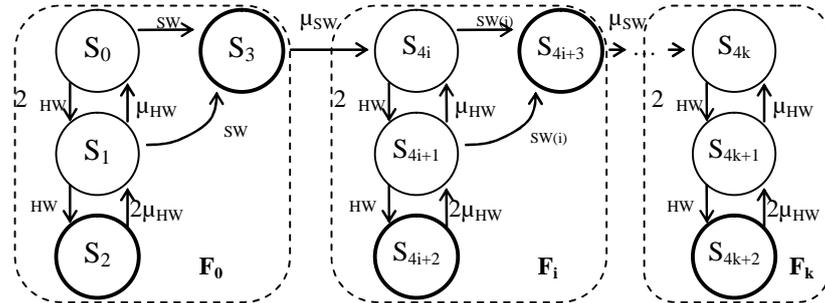
sw.

sw

(  $sw_k = 0$ , . 4),

sw mins

( . 3).



. 4.

-2.2

HW,  $\mu_{HW}$ ,  $sw_0$ ,  $\mu_{sw}$ .

sw  
-2.1,

-2.2  
sw min)

. 4 ( )

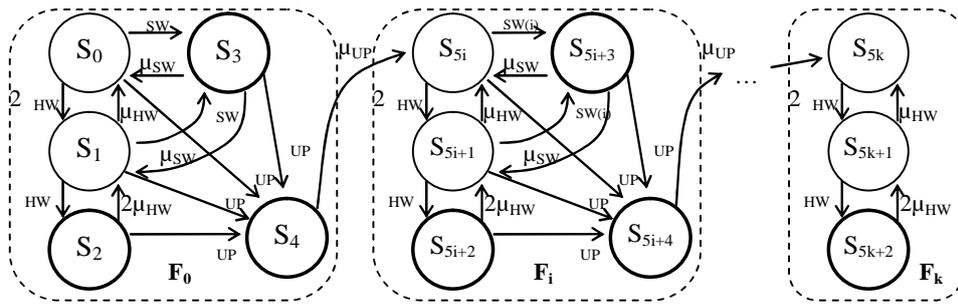
. 3 ( )  
sw 0,

sw

2.3)

( . 5)

( )  $S_0$ .  
,  
)  $S_1$  (  
)  $S_2$  (  
(  
,  
 $S_0$   $S_1$ ).  
,  
 $S_3$ .  
,  
 $S_0$ .  
,  
 $S_4$ .  
,  
(  $S_{5i}$ ),  $\lambda_{sw i}$ .



.5.

.5

( -3.1)

-2.1,

D).

( )

sw

( sw\* /

( sw k = 0),

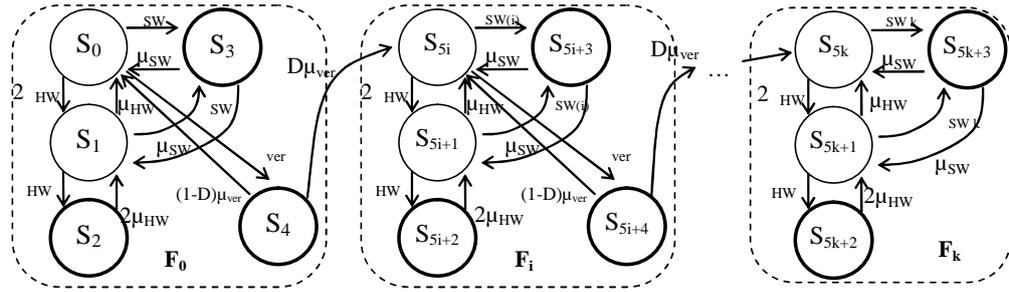
sw min

.6.

.6

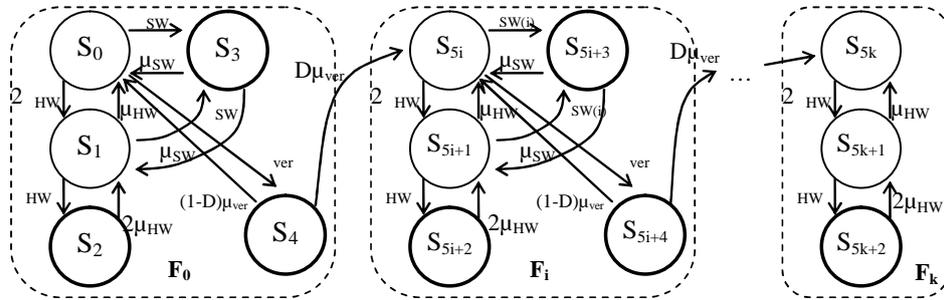
-3.2,

-3.1,



. 6.

. 7.



. 7.

( -3.3) . 8

$S_0$ .

$S_1$  (

),  $S_2$  (

) , ...  $S_0$   $S_1$ .

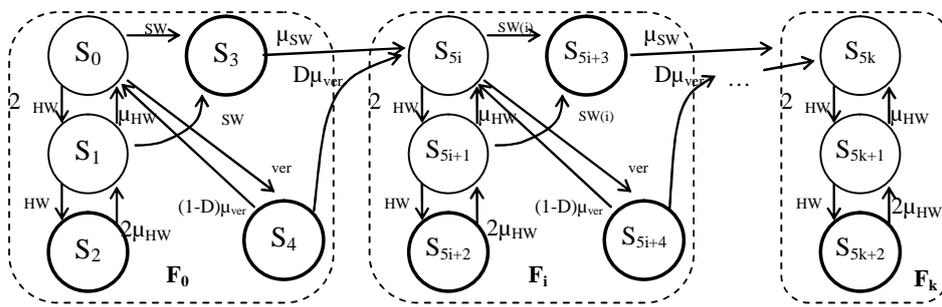
$S_3$ .

(  $S_{5i}$ ),

$\lambda_{SW i}$ .

$S_4$ .

D



. 8.

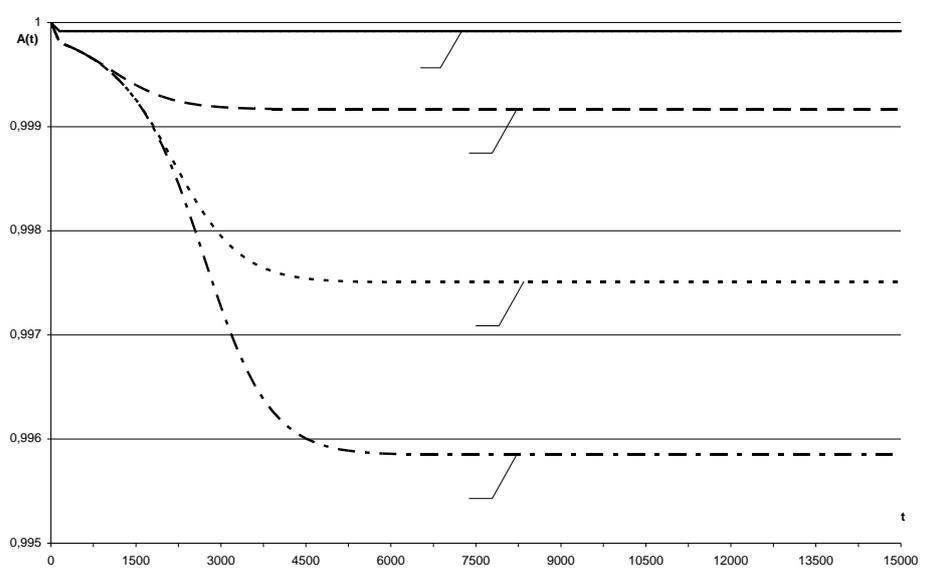
. 8

( -4.1  
 -4.2) -3.2 -3.3 . 7 . 8;

HW SW 0-

-3.3

[16].



. 9.

)  $SW_{max} = 10^{-3}(1/ )$ ;  $S_{21}$ , -1.0:  
 $SW_{max} = 0,03$ ; )  $SW_{max} = 0,05$  )  $SW_{max} = 0,01$ ; )



6.  $\mu_{up}$  ( -2.3)  $\mu_{ver}$  ( -3. -4. )  
 ,  
 .  
 ,  
 ,  
 ( , , ).  
 ;

6.

,  
 ,  
 ),  
 ,  
 ,  
 ( )  
 [15,16],  
 SC1...SC4  
 ,  
 ( )  
 ,  
 ( )  
 ).  
 (t)  
 ,  
 ,  
 ,  
 [8].  
 « - »;

. 11.



. 2.

/		
1	-1.0	HW, SW, $\mu_{HW}$ , $\mu_{SW}$
2	-1.1	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw max
3	-2.1	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min
4	-2.2	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min
5	-2.3	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min, up, $\mu_{up}$
6	-3.1	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min, ver, $\mu_{ver}$ , D
7	-3.2	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min, ver, $\mu_{ver}$ , D
8	-3.3	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min, ver, $\mu_{ver}$ , D
9	-4.1	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min, ver, $\mu_{ver}$ , D
10	-4.2	HW, SW 0, $\mu_{HW}$ , $\mu_{SW}$ , sw, sw min, ver, $\mu_{ver}$ , D

[17].

. 2.

7.

[16]

1. :  
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2. / . .  
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3. . .  
/ . . .- : .- 2001.- 380 .
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0058:2009 / . . ( . . ) .- 2009.- 57 .
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