

621.317

1, ... 2, ... 3, ... 1  
 1  
 2  
 3 “ ”,

: , , , , , .

( ) ( ) [7, 8].

( ) - , , .

[1]. **1.**

( ) ( ).

[2-4]. )- 1, ( -

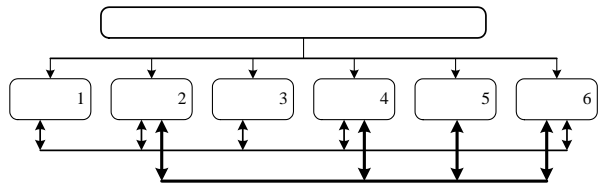
, , 4, 2, - 3, -

, ) - 5 6.

[5, , 6].

2001-2007 , , .

, , .1.



$P_i(t) \quad (i=1, 2, \dots, 9)$

(

)

[7, 9].

.I.

(  
(  
, 1) (  
) ; 2) (  
) ;  
3) (  
) ;  
S<sub>1</sub> - ; 1)  
; 2) 1; 3)  
S<sub>2</sub> - ( ) 2. ;  
; 1) ;  
S<sub>3</sub> - ; 2) ;  
S<sub>4</sub> - ; 3) ;  
S<sub>5</sub> - ; -  
S<sub>6</sub> - ( ) ; 1) ; 2) ;  
S<sub>7</sub> - ; ( ) ; 1)  
S<sub>8</sub> - ; ( ) ; 2)  
S<sub>9</sub> - ; 3) )

(S<sub>1</sub>-S<sub>9</sub>).

$P_i(t) \quad (i=1,2,\dots,9)$

t

:1)

( )

2) ( )

$$P_i(t) = \sum_{j=1}^n \lambda_{ji} P_j(t) - P_i(t) \sum_{i=1}^n \lambda_{ij}, \quad (1)$$

$\lambda_{ij} P_i(t)$  -

$S_i \quad S_j; \lambda_{ij}$  -

$S_i \quad S_j; n$  -

n=9).

1. ( )

=0.

1

2.

$\alpha = 0, \beta = 0.$

3.

(1)

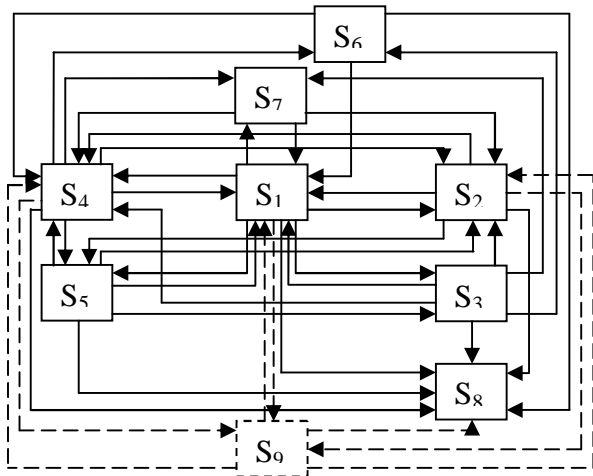
$k_{ij} = 1, i - j = 2-7$   
 $k_{ij} = 0,$

	1	2	3
$k_{98}$	0	1	1
$k_{92}$	0	1	1
$k_{29}$	0	1	1
$k_{94}$	0	1	1
$k_{49}$	0	1	1
$k_{91}$	0	1	1
$k_{19}$	0	1	1

1.2.

1.1.

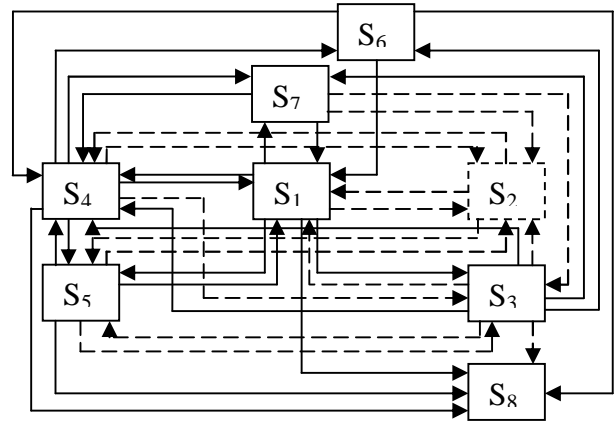
( ) .3.  
 ( ) .2.



.2.

( )

( )  
 1.



.3.

2.

2

3.

3

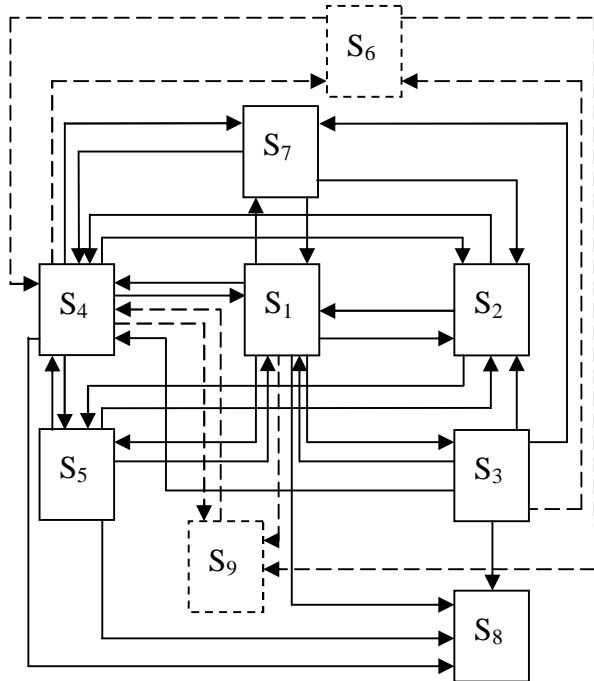
-	1	2	3
k <sub>43</sub>	0	0	1
k <sub>53</sub>	0	1	1
k <sub>35</sub>	0	1	1
k <sub>38</sub>	1	1	0
k <sub>31</sub>	1	1	0
k <sub>73</sub>	0	0	1
k <sub>36</sub>	1	0	0
k <sub>37</sub>	1	0	0
k <sub>32</sub>	1	1	0
k <sub>25</sub>	1	1	0
k <sub>52</sub>	1	1	0
k <sub>12</sub>	1	1	0
k <sub>21</sub>	1	1	0
k <sub>24</sub>	1	1	0
k <sub>42</sub>	1	1	0
k <sub>72</sub>	1	1	0

1.3.

-	1	2	3
k <sub>19</sub>	0	1	1
k <sub>69</sub>	0	1	1
k <sub>49</sub>	0	1	1
k <sub>94</sub>	0	1	1
k <sub>36</sub>	0	1	1
k <sub>31</sub>	1	0	0
k <sub>37</sub>	1	0	0
k <sub>13</sub>	1	0	0
k <sub>64</sub>	0	1	1
k <sub>46</sub>	0	1	1
k <sub>54</sub>	1	0	0

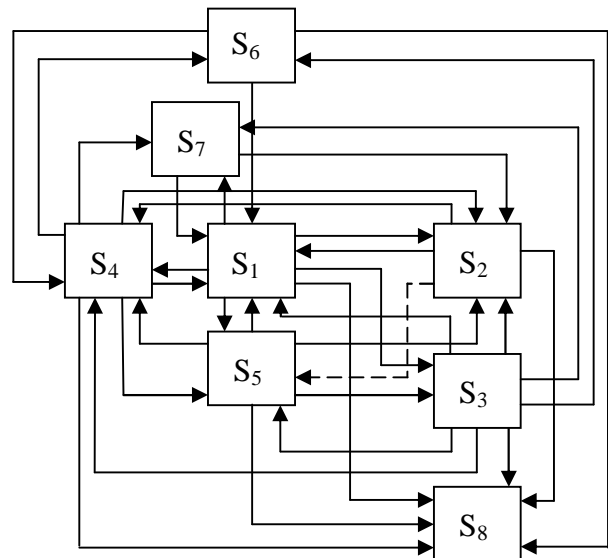
1.4.

. 4.



. 4.

. 5.



. 5.

4.

4 1.6.

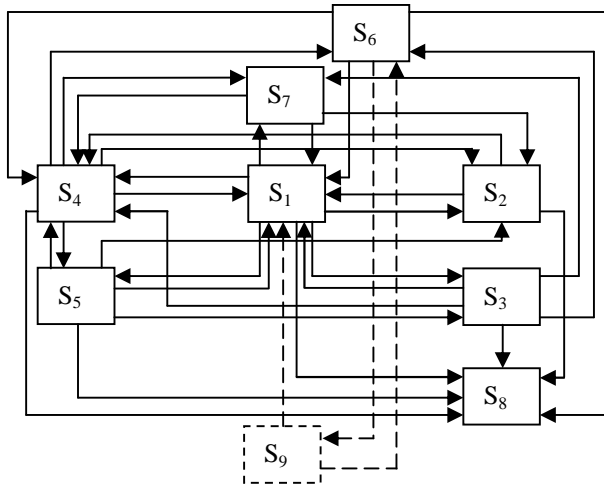
-		
	1	2
$k_{31}$	0	1
$k_{31}$	1	1
$k_{31}$	1	1

15.

( )

( )

. 6.



. 6.

( )

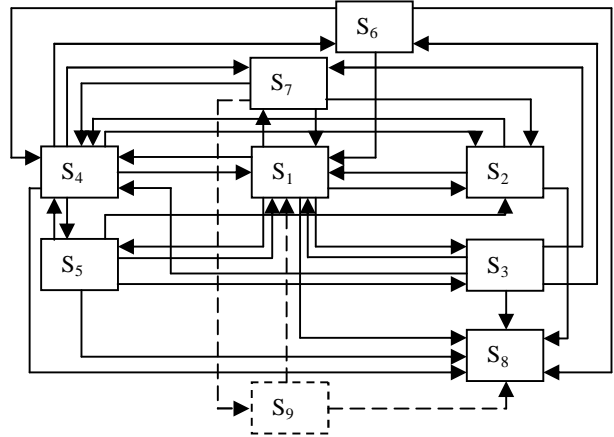
( )

5.

5

-			
	1	2	3
$k_{91}$	1	0	1
$k_{96}$	0	0	1
$k_{69}$	0	0	1

. 7.



. 7.

6.

6

-		
	1	2
$k_{79}$	0	1
$k_{91}$	0	1
$k_{98}$	0	1

$S_1 - S_9$

(1)  $P_1 - P_9$

[7]

[10].

3. ... / ... , ... , 2001. - 96 .

4. ... ( ... ) // ... - 2004. - 2. - . 57-60.

5. ... , 1984. - 386 .

6. ... / ... , 1988. - 208 .

7. ... / ... - ... , 1989. - 200 .

8. ... // ... - 1987. - 4. - . 74.

9. ... / [ ... ]; ... , 1984. - 397 .

10. ... Mathcad. ... / ... , 2005. - 448 .

1. ... 2011 : ( V ) . 25-26 . 2008 . : . - . , 2008. - . 3. 2. ... / ... // ... : ... - 1991. - 11 - . 3-10. ... 6.11.2010 .

**SYSTEM OF MATHEMATICAL MODELS OF EXPLOITATION OF FACILITIES OF MILITARY-ORIENTED MEASURING EQUIPMENT**

M.Ju. Jakoylev, I. Prityka, O.E.Semenova, Y.V. Babiy

*In the article the system of mathematical models of exploitation of facilities of military-oriented measuring equipment is developed taking into account the specifics of their exploitation. It is suggested for the evaluation of efficiency and optimization of management of facilities of measuring technique of military-oriented metrology reliability to draw on the developed system of mathematical models.*

**Keywords:** *system of mathematical models, management, metrology reliability, facilities of measuring military-oriented equipment, efficiency, optimization, metrology providing.*