

004.421.2:519.17

3].

[1-

[5],

$$A = \langle V, D, F \rangle,$$

V -

D -

F-

$\alpha$

$$\alpha = \langle v, d, f \rangle,$$

$$v \subseteq V, |v| \leq |V|, d \subseteq D, |d| \leq |D|, f \subseteq F, |f| \leq |F|.$$

X

[4-8],

$$R, R \subset X. \quad W(\alpha, r) -$$

$$r \subseteq R -$$

$$\alpha^* = \arg \max W(\alpha, r) \quad (1)$$

(1)

$t \in T$ .  
 $(t_0) \quad (t_x)$   
 $t = t_0 + t_x, t > 0$ .

$h_t(\alpha), h_t(\alpha) > 0$ .  
 $A_{(\varepsilon)}^* \subset A$ ,  
 $\alpha_{(\varepsilon)}^* \in A_{(\varepsilon)}^* - \langle \quad \rangle$   
 $: t_x < h_t(\alpha) \leq t, \quad A_{(\varepsilon)}^{\pi^-} \langle \quad \rangle A_{(\varepsilon)}^{\pi^+}$ ,  
 (

$r_{\min}, \quad A_{(\varepsilon)}^{\pi^+}, A_{(\varepsilon)}^{\pi^-} \subset A$ .  
 $r_{pr}$ ,  
 $t_x / t_0, \quad A_{(\varepsilon)} = A_{(\varepsilon)}^* \cup A_{(\varepsilon)}^{\pi^+} \cup A_{(\varepsilon)}^{\pi^-}$   
 $r_{\min}, \quad r_{pr} \setminus r_{\min}, \quad r \setminus r_{pr}$ :  
 $\alpha^{\{r\}} = \alpha^{\{r_{\min}\}} \cup \alpha^{\{r_{pr} \setminus r_{\min}\}} \cup \alpha^{\{r \setminus r_{pr}\}}$ ,  
 $t_0 \rightarrow h_t \left( \alpha^{\{r_{\min}\}} \cup \alpha^{\{r_{pr} \setminus r_{\min}\}} \right)$ , (2)  
 $h_t \left( \alpha^{\{r \setminus r_{pr}\}} \right) \rightarrow t_x$   $O^\alpha$

(2)  
 $W \left( \alpha^{\{r \setminus r_{pr}\}}, r \right)$ ,  
 $W$ ,  
 $O_A^{\alpha_0} \quad \forall \alpha_0 \in A_{(\varepsilon)}$   
 $(A_{(\varepsilon)}, \prec, W)$ .  
 $\alpha \notin A_{(\varepsilon)}$   
 $(E, \prec)$

$T, T = \{ \tau_0 \prec \tau_1 \prec \dots \prec \tau_n \prec \dots \prec \tau_{|T|-1} \}$ ,  
 $A_{(\varepsilon)}:$   
 $O^\alpha = [ \alpha, O_A^{\alpha_0} ] : \min l(\alpha, \alpha_0), \alpha_0 \in A_{(\varepsilon)}$ .  
 (1)  
 $\alpha^* = \alpha(T)^* = \arg \max \sum_T \sum_E W \left( \alpha_{E_i}(\tau_n), r_{E_j}(\tau_n) \right)$ .  
 ( )

[8].

(1)  
 $\varepsilon$

(1)

1. / . . . . . , 1986. - 272 .

2. / . . . . . , 1997. - 284 .

3. ( ) / . . . . . , 2003. - 192 .

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**FEATURES OF CONSTRUCTION OF COMPLEX TECHNICAL SYSTEMS WITH A DYNAMIC STRUCTURE**

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*Features of construction of complex technical systems with a dynamic structure are determined. Decomposition of the structure of the system and the procedure for moving the elements of the system are considered. Approach to the synthesis of the structure of the system with a dynamic structure is proposed.*

**Key words:** *dynamic structure, features of construction, complex technical system.*