

3)

4)

[5].

) - %;

- 6.

Qu

- 3.

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Quj,

Quj

j- o

$$\langle \rangle 3 = 3 (, ,).$$

j- o

$$P_{aj} = \int_{\Omega_{uj}} f_a(U) dU, \quad (1)$$

()

f_a(U) -

« »

p_{aj}

[4].

$$P_{aj} = \frac{M_{oj}}{M_o}. \quad (2)$$

$$\chi = \frac{\sum_j M_j}{M_o} = \frac{M}{M_o}. \quad (3)$$

X = {X_j},
 j = [1, l], Y = {Y_k}, k = [1, m], = (X, Y).

$$= (,). \quad (4)$$

[4, 5]:

$$3 v = v_j,$$

$$\max(\gamma) \min(v) P(\gamma, T) \quad (5)$$

$$P(\gamma, T) = \sum_j P_{aj} \cdot f_j P_{aj}(\gamma, T), \quad (9)$$

$$f(y, T) =$$

– ;
– (. .).

$$\begin{pmatrix} , \\ (- , \\ () \end{pmatrix}$$

$$M = Y_j P_{aj} f_j(Y > T) \quad j = 1$$

[3, 4].

[1, 2, 5].

$$- V, -3$$

v,

$$- v) v,$$

$$= (| / 2 /) > \quad (6)$$

$$ft - ();$$

$$2 -$$

;

$$Y -$$

$$\begin{pmatrix} \\ v (, T), \ll 3 v, \gg \end{pmatrix}$$

$$v = Q v. \quad v(y, T)$$

$$P\{(\hat{v}(\gamma, T) - v) \in \Xi_v\} = f(v, \gamma, T). \quad (7)$$

3U}

$$f(u, y, T) = P\{ (v(Y, T) - u) e f(v, ,)$$

$$P(\gamma, T) = \int_{\Omega} \varphi_a(v) f(v, \gamma, T) dv. \quad (8)$$

v,

$$v(r, T)$$

**АНАЛИЗ ОСОБЕННОСТЕЙ ФУНКЦИОНИРОВАНИЯ СУЩЕСТВУЮЩИХ СИСТЕМ КОНТРОЛЯ И АНАЛИЗА
КОСМИЧЕСКОЙ ОБСТАНОВКИ**

О.В. Шульга

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EXISTING OUTER SPACE CONTROLS AND ANALYSIS SYSTEMS FUNCTIONING FEATURES ANALYSIS

O.V. Shulga

The paper deals with applied existing terrestrial space systems efficiency and quality improving, in particular, outer space control and analysis systems (OSMAS). Overall OSMAS designed to space environment state data collect, process and analyze from the national space control accessories and other sources, including foreign ones. The necessity hazards occurrence in space prompt detection and prevention problem solving that threaten Ukrainian national security justified. OSMAS capabilities information analysis suggests possibility of number of specific tasks solving.

Keywords: spacecraft (SC), satellite radio navigation system (SRNS), outer space monitoring and analysis system (OSMAS), identification, channel, functional outcome, time factor.