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[1-3].

[4, 7].

[1].

(*t*)

[1,4-6]

[2].

(*t*)

}(*t*),

P(*t*),

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[2]

$$P(t) = P(t) + \int_0^t P(t-\tau) \cdot \tilde{S}(\tau) \cdot dt, \quad (1)$$

$\tilde{S}(\tau) =$

$$= \frac{M(T_0)}{M(T_0) + M(T)}, \quad (2)$$

$M(T_0) =$

$M(T) =$

$(t) =$

$(t, t+\tau) =$

$$(t, t+\tau) = P(t+\tau) + \int_0^t P(t+\tau-x) \cdot \tilde{S}(x) dt. \quad (3)$$

$M(T_0) =$

$$= \frac{M(T_0)}{M(T_0) + M(T)}, \quad (4)$$

$M(T) =$

[3-5]

(

[7],

[3, 4].

$$\hat{z} = \frac{n}{t}, \quad \hat{t}_0 = \frac{t}{n}, \quad (5)$$

n -

t -

z2.

$$z_1 + \frac{z_2}{T_0} = z = \frac{I}{T_0}, \quad (5)$$

$$\frac{z_1}{0} + z_2 = T_0, \quad (6)$$

$$= \frac{- - -}{T_e} \approx \frac{t}{T_e}. \quad (7)$$

$$(z_1, z_2), \dots, z_2 \rightarrow 0, \quad (7)$$

$$T_0 = \frac{1}{z_2}, \quad (11)$$

$$(6)$$

(7)

$$(z_1) \cdot 0. \quad (7)$$

$$(z \cdot KI), \quad z_1 < 1, \quad 0$$

$$\uparrow \Rightarrow \frac{\uparrow\uparrow}{(z_1) \uparrow + z_2} \Rightarrow T_0 \uparrow \quad (8)$$

↓

0

$$\downarrow \Rightarrow \frac{\downarrow\downarrow}{(z_1) \downarrow + z_2} \Rightarrow T_0 \downarrow. \quad (9)$$

z2 → 0.

$$T_0 = \frac{1}{z_1}, \quad (10)$$

[9-10].

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FEATURES ANALYSIS SUPPORT OPERATION OF SHIPS IN MODERN CONDITIONS

I. Tikhonov, D. Gudkov, V. Lavrynenko

The priority tasks of scientific and technical nature, the solution of which creates conditions for improving the operation of ships include: the introduction of modern hardware, methods and algorithmic software parametric monitoring and diagnostics of machines, tools and proven technologies use methods of nondestructive testing elements (units) which occur during operation failure. In statt presented approach allows a qualitative assessment of reliability relative to prior periods of operation. However, do not take into account the impact on the statistical evaluation of the intensity of use. Statistical data on failures and faults are obtained in an unstable observation that significantly affects the accuracy and reliability assessment.

Keywords: maintenance, diagnostics, control parameters.