

1. : - ACSR-240;
 - ACSR-810; - ACSR-95 (Nigol); - ASM-620

() (1)

j-

(1),

(1),

$$\bar{R}_{ji}(l_i, t) = \bar{F}_1(t, \bar{R}_{ji}, \theta_i)[y_{ij}(l_i, t) =$$

$$c_s = \frac{1}{2\pi} \sqrt{\frac{M_s}{M_s}} = \frac{1}{2\pi} \sqrt{\frac{10^6 \dots 10^7}{2 \dots 15}} \approx 40 \dots 350, \quad (5)$$

[10]

$$f_s = \frac{1}{2\pi} \sqrt{\frac{c_s}{M_s}} = \frac{1}{2\pi} \sqrt{\frac{10^6 \dots 10^7}{2 \dots 15}} \approx 40 \dots 350, \quad (5)$$

$M_s -$

0,025...0,0028 .

τ_s

τ_s

[11].

(),

[8].

[8]

2xACSR-240

144 .

15 .

1 ,

1,5

0 95°.

[8]

10...15 %.

.2

[8]

$\theta_0 = 95^\circ$.

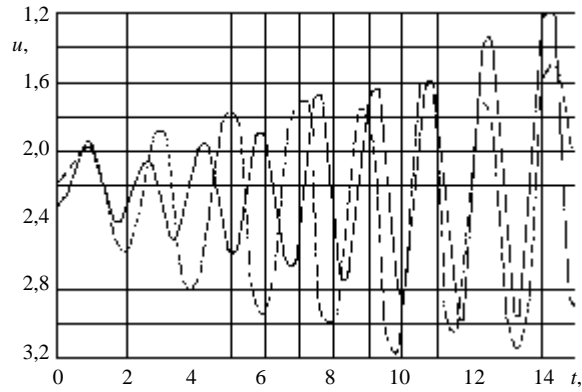
[12].

$$T_e = \sum_{i=1}^n T_i ; \rho_e = \sum_{i=1}^n \rho_i ; A_e = \sum_{i=1}^n A_i ;$$

$$\alpha_{ye} = \frac{1}{EA_e} = \frac{\alpha_y}{n} ; \alpha_{te} = \alpha_t , \quad (6)$$

$n -$

; $\alpha_y \quad \alpha_t -$



. 2.

[8]: — — — — — ; - - - - - [8]

$$\theta_e = \theta.$$

$$\bar{J}_e = \sum_{j=1}^n \rho \frac{\partial^2 \bar{R}_{Gj}}{\partial t^2} = \rho \frac{\partial^2 \sum_{j=1}^n \bar{R}_{Gj}}{\partial t^2} = n\rho \frac{\partial^2 \frac{1}{n} \sum_{j=1}^n \bar{R}_{Gj}}{\partial t^2} = \rho_e \frac{\partial^2 \bar{R}_{Ge}}{\partial t^2}, \quad (7)$$

$$\bar{R}_{Ge} = \frac{1}{n} \sum_{j=1}^n \bar{R}_{Gj} \quad (\bar{R}_G -$$

); $\rho_e = n\rho$.

(7)

$$\begin{aligned} \rho_e \frac{\partial^2 y_e}{\partial t^2} - \rho_e h \left[\sin \theta_{Ge} \frac{\partial^2 \theta_e}{\partial t^2} + \cos \theta_{Ge} \left(\frac{\partial \theta_e}{\partial t} \right)^2 \right] + \delta_e \frac{\partial y_e}{\partial t} = \\ = T_e \frac{\partial^2 y_e}{\partial s_0^2} + P_e + F_{ey}; \end{aligned}$$

$$\begin{aligned} \rho_e \frac{\partial^2 z_e}{\partial t^2} + \rho_e h \left[\cos \theta_{Ge} \frac{\partial^2 \theta_e}{\partial t^2} - \sin \theta_{Ge} \left(\frac{\partial \theta_e}{\partial t} \right)^2 \right] + \delta_e \frac{\partial z_e}{\partial t} = \\ = T_e \frac{\partial^2 z_e}{\partial s_0^2} + F_{ez}; \end{aligned} \quad (8)$$

$$I_e \frac{\partial^2 \theta_e}{\partial t^2} + n f_c \frac{\partial \theta_e}{\partial t} + \rho_e h \left[\cos \theta_{Ge} \frac{\partial^2 z_e}{\partial t^2} - \sin \theta_{Ge} \left(\frac{\partial y_e}{\partial t} \right)^2 \right] =$$

$$= GJ_e + M_{ae} - M_{pe},$$

$$\theta_{Ge} = \theta_0 + \theta_e; \quad T_e = nT; \quad P_e = nP; \quad \bar{F}_e = n\bar{F}; \quad \delta_e = n\delta; \quad M_{ae} = nM_a;$$

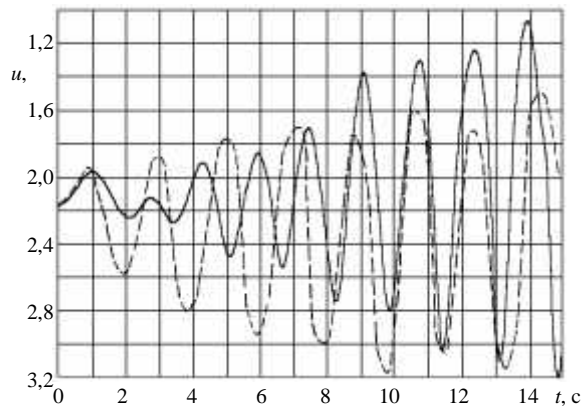
$$M_{pe} = nM_p; \quad I_e = nI_c + \rho_e r_p^2 - \quad \quad \quad 1 \quad \quad \quad ; \quad r_p -$$

(n = 2)

$$GJ_e = nGJ + r_p^2 T_e. \quad (9)$$

[8].
[8] 10...15 % . 3

[8], $\theta_0 = 95^\circ$.



. 3.

[8]: — — ; — — — — [8]

1998 . () « -
» () ()
() 2 -400/51 292 . -
[13].

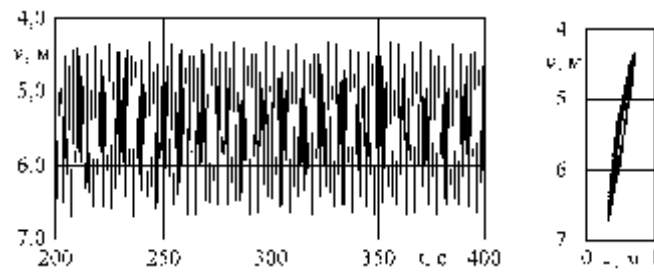
185° 280° . 93°
(. 1). . 4 -

(9).

240 ² [8].

θ_0	Y_{m-m}	θ_0	Y_{m-m}
190	2,8	175	2,3
280	3,36	290	3,0
95	3,5	93	2,5

* Y_{m-m} -



. 4. $\theta_0 = 93^\circ$ -

; -

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2 ASM-620 [9].

ASCR-810 [14].

: $T_0 = 36$ / ,

-6 , $\nu = 10$ / , $GJ_e = 4455$ $^2/$, $I_e = 0,182$. 2 .

. 2,

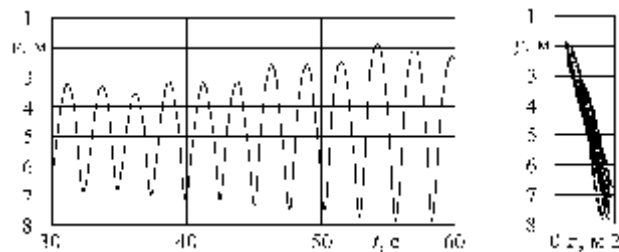
- . 5.

2

θ_0							, %		
	Y_{m-m}	* $m-m$	** θ_{m-m}	Y_{m-m}	T_{m-m}	θ_{m-m}	Y_{m-m}	T_{m-m}	θ_{m-m}
-50	6,0	115	60	6,0	130	100	0,0	13,0	66,6
-45	6,0	115	60	8,0	150	100	33,8	30,4	66,6
-40	6,0	115	60	6,6	140	85	10,0	21,7	41,7

* -

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. 5. $\theta_0 = -50^\circ$ -

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