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9865 9843

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[13]

1. 1968.

2. 1998. - 248 3.

1991. - 141 4.

2004.

1. - 10 - 12. 5.

2004. 1. - 5 - 9. 6.

2005. - 323 - 330. 7.

2005. 89 - 151 - 154. 8.

2006. 13 - 100 - 103.

9. 9901, 02 4/10. 17.10.05 10.

10. 12363, 02 11/00.

15.02.06 2. 11.

4/10. 17.10.05 10. 12. 9843, 02

9865, 02 4/10. 17.10.05 10. 13.

2006. 1. - 27 - 29.

16.09.06.

543.1/532.135:541.12.015

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-200, -5 -

In clause the brief description of vibrating machines and technologies is resulted. Vibrating mills such as VUPP-200, VUPR-5 are universal and on them it is possible to carry out various kinds of processing of materials - crushing, activation, mixture, condensation, a covering of one powder another, hardening, reception of granules of various organic and inorganic materials, clearing of waste products of oils and every possible pollution.

1981

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14 1500

200 ,
-1.,
1.5 ,

500 600 ,
1-12 ,
2.45*0.99*1.19 ,

-200:
10-

200: 200 , 500 620 ,
 $1500 \cdot 14^{-1}$, $2.86 \cdot 1.10 \cdot 1.25$,
 2 . -200
 () ,
 1600), (-1200,
 -1000 -
 -200.
 -5
 25 , $0,2-1,4$, $7470 \cdot 1420 \cdot 1020$
 $5-30$. $1-8$ / . , 3500^{-1} ,
 ($M_o S_2$) . $M_o S_2$
 ($M_o S_2$) ,
 (, -200) ,
 (,)

[3, 6, 7],
 Ni-Al-Ti,
 $S(t)$
 ($13 \ 2 \ 2$, $13 \ 2 \ 2$, $18 \ 15$)
 $S_n(t) = \sum_{j=0}^n b_j t^j$, $S(t) = \frac{b_0}{t} + b_1$, $S(t) = b_1 + b_0 \cdot \ln t$,
 $S(t) = b_0 \cdot t^{b_1}$, $S(t) = b_0 \ell^{b_1 t}$, $S(t) = b_0 \cdot b_1^t$,
 $b_j, j = 0,1,2 \dots n$
 1. $13 \ 2 \ 2$, $18 \ 15$
 $S_9(t) = \sum_{j=0}^9 b_j t^j$, $S(t) = b_0 \ell^{b_1 t}$
 $b_j, j = 0,1,2 \dots 9$ $18 \ 15$
 $S(t) = 0.0032t^9 - 0.1287t^8 + 2.1129t^7 -$
 $-18.5043t^6 + 92.5872t^5 - 261.237t^4 +$
 $+374.1132t^3 - 180.7391t^2 - 34.9707t +$
 $+308.7937.$
 $S(t) = 279.5293e^{0.08855t}$

$$b_j, j=0,1,2\dots 9 \quad 13 \quad 2 \quad 2$$

$$S(t) = -0.0032t^9 + 0.1413t^8 - 2.6197t^7 + 26.3697t^6 - 153.6355t^5 + 504.2639t^4 - 795.5627t^3 + 208.7117t^2 + 776.95312t + 147.8485.$$

$$S(t) = 438.1656e^{0.16135t}$$

2.

$$S(t) = b_0 \ell^{b_1 t}$$

b_j

b_j

$S(t)$

Al_2O_3

[7]

(30%)

310-84

310-84

()

30 %

[1, 3, 4, 5, 6, 7, 8].

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) [1, 2, 6],

2.

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.1983 .271 .

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,1979 ., .207-209. 3.

. 7- 12. 4.

01813013784. 1982 .

01860062335., 1988

.33-37 . 5.

6.

, . 1987, . 3, . 418 - 422.

N1893- 90 9.04.90 .7.
 . . . , 1991 . . . 34 - 36. 8.
 1996 . . . 99 - 103.

1. 29 - 31

16.09.06.

$n \leq 3k$).

$$[2] M(t, x_1, x_2 \dots x_n) \quad M(t, \bar{X})$$

$$D(t, x_1, x_2 \dots x_n) \quad T(t, q, \dot{q}), V(t, q, \dot{q})$$

$(t_2 \bar{X}_2)$

$$(t_1 \bar{X}_1)$$

$$J(t) = \int_{t_1}^{t_2} L(t, q(t), \dot{q}(t)) dt$$

1.

$(k=1)$

R, $n=3$

$$M(t, x_1, x_2, x_3) \quad M(t, x, y, z)$$

$$x_1 = x, x_2 = y, x_3 = z$$

$$J = \frac{\xi}{2f} \int_0^{\xi} \left(\frac{1}{2} m(\dot{x}^2 + \dot{y}^2 + \dot{z}^2) - k_1 x^2 - k_2 y^2 - k_3 z^2 \right) dt$$

$$x(0) = x_0, y(0) = y_0, z(0) = z_0; x\left(\frac{\xi}{2f}\right) = x_{10}, y\left(\frac{\xi}{2f}\right) = y_{10}, z\left(\frac{\xi}{2f}\right) = z_{10}.$$

$$J = \frac{\xi}{2f} \int_0^{\xi} \left(\frac{1}{2} m(\dot{x}^2 + \dot{y}^2) - k_1 x^2 - k_2 y^2 \right) dt$$

The results of the investigation of optimal parameters to the mathematical description in the vibrating machines.

-200

[1]