

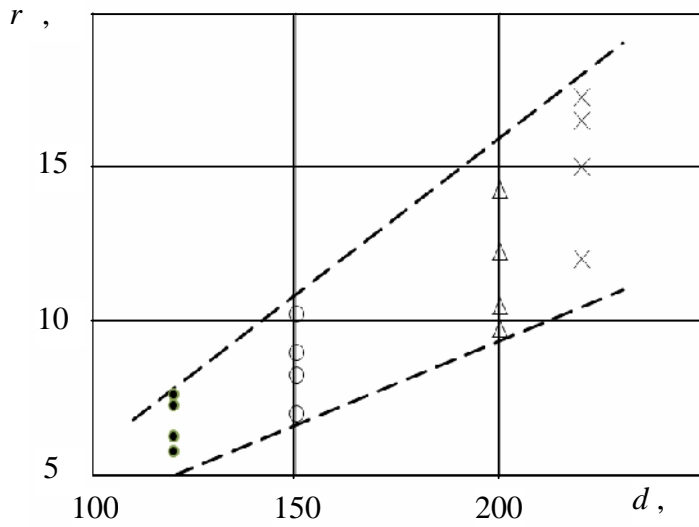


[1].

[1]

7 18 ( . 1).  
3-4 . . 1

( ( ) ) 150-160  
85-95 .  
 $r$   
 $r$   
 $r$  ( . 2).  $r$  ,



1.

$d$  [1]: • -  $d = 125$  ; -  $d = 150$  ; -  $d = 200$  ; × -  $d = 214$

$$E = + \quad (1)$$



$$\Delta E = -(\sigma^2 / 4E)\pi l^2, \tag{4}$$

$$E = 2 \cdot \sigma \cdot l. \tag{5}$$

$$E = m(-(\sigma^2 / 4) \pi l^2 + 2\sigma l). \tag{6}$$

$$M_0 Q = P \pi r_c^2 l_i / (k - 1) + m(-(\sigma^2 / 4E)\pi l^2 + 2\sigma l). \tag{7}$$

$$P_{,i} = P_{t,i} \sin(\arctg(l_i / r_{,i})) + P_{r,i} \cos(\arctg(l_i / r_{,i})), \tag{8}$$

$$P_{t,i} = P_{,i} / 2\pi r_c; \quad P_{r,i} = P_{,i} / l_i. \tag{9}$$

$$P_{t,i} = P_{r,i} \quad [2]:$$

$$P_{t,i} = P \rho_{i,c,i} / (\rho_{i,c,i} - \rho_{i,D}); \quad P_{r,i} = 2P \rho_{i,c,i} / (\rho_{i,c,i} + \rho_{i,D}), \quad (10)$$

$$P_{t,i} = P \rho_{i,c,i} / (\rho_{i,c,i} - \rho_{i,D}); \quad P_{r,i} = 2P \rho_{i,c,i} / (\rho_{i,c,i} + \rho_{i,D}), \quad (10)$$

$$P_{t,i} = m(2E_i \sigma_{i,c} / \pi(1 - \mu_i^2) l_i)^{\frac{1}{2}}, \quad (11)$$

$$\mu_i = \dots; \quad l_i = \dots, \quad m, \quad r_{t,i}:$$

$$M_{0,i} Q = P \pi r_c^2 l_i / (k-1) + P_{t,i} (-(\sigma_{i,c}^2 / 4E_i) \pi l_i^2 + 2\sigma_{i,c} l_i^2) / (2E_i \sigma_{i,c} / \pi(1 - \mu_i^2) l_i)^{\frac{1}{2}}, \quad (12)$$

$$r_{t,i} = P_{t,i} / \sigma_{i,c}:$$

$$P_{t,i} \sin(\arctg(l_i / r_{t,i})) + P_{r,i} \cos(\arctg(l_i / r_{t,i})) = \\ = (M_{0,i} Q - P \pi r_c^2 l_i / (k-1)) \cdot (2E_i \sigma_{i,c} / \pi(1 - \mu_i^2) l_i)^{\frac{1}{2}} / (-(\sigma_{i,c}^2 / 4E_i) \pi l_i^2 + 2\sigma_{i,c} l_i^2). \quad (13)$$

(13)

 $r_{t,i}$ 

:

$$y_i = \arctg(l_i / r_{t,i});$$

$$A_i = (M_{0,i} Q - P \pi r_c^2 l_i / (k-1)) \cdot (2E_i \sigma_{i,c} / \pi(1 - \mu_i^2) l_i)^{\frac{1}{2}} / (-(\sigma_{i,c}^2 / 4E_i) \pi l_i^2 + 2\sigma_{i,c} l_i^2). \quad (14)$$

$$(13) \quad :$$

$$P_{t,i} \sin(y_i) + P_{r,i} \cos(y_i) = A_i. \quad (15)$$

:

$$r_{t,i} = \frac{l_i(A_i^2 - P_{t,i}^2)}{P_{t,i} P_{r,i} \pm A_i \sqrt{P_{t,i}^2 + P_{r,i}^2 - A_i^2}}. \quad (16)$$

[4] (16),

:

$$r_{i,j} = \frac{l_i(A_i^2 - P_{t,i}^2)}{4,6 \cdot (P_{t,i}P_{r,i} \pm A_i \sqrt{P_{t,i}^2 + P_{r,i}^2 - A_i^2})}. \quad (17)$$

[5].

 $\bar{r}$ 

:

$$\bar{r} = \frac{\int_0^l (al^3 + bl^2 + cl + d) dl}{l}.$$

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« ». « ». - . . . - 2002. - . 7. - . 44-54.
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23.11.2012 .