

10,
10.2

() .10.1, V

V 10 : V = 5 /

. 10.3

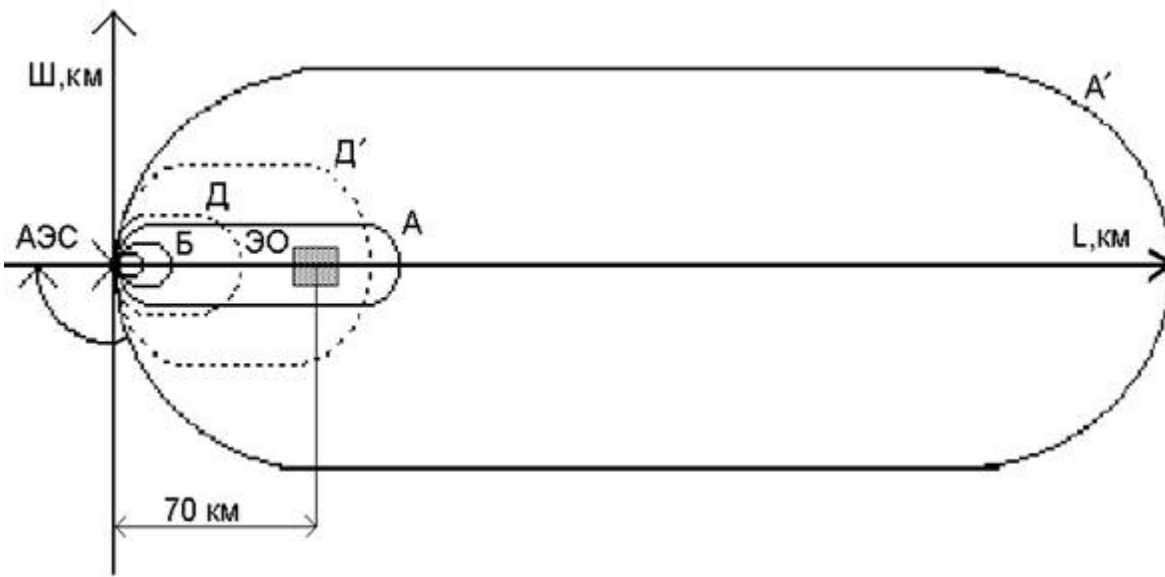
: 1

1, / ,, L, ,

0,014 0,14

1,4 4,2 14 5,6 56 560 1680 5600 - - - - - 300 100 20 10 20 4 2 1

30 250 90 10 5
44



1

= /400 -
60

1 , -

: (); - (); - (); - (); - ().

$$t_{\text{max}} = \frac{L_0}{3600 \cdot V_{\text{пр}}} = \frac{60000}{3600 \cdot 5} = 3,3 \text{ ч} \quad . 10.4$$

: t = 3

. 10.3

1

$$P_1 = 0,14 + \frac{1,4 - 0,14}{100 - 20} \cdot (100 - 60) = 0,77$$

$$D_{\text{max}} = 56 + \frac{560 - 56}{100 - 20} \cdot (100 - 60) = 308$$

$$D_{\text{min}} = 250 - \frac{250 - 30}{90 - 44} \cdot (60 - 44) = 173,48$$

(): t = 1 / , -

10.5. $t_1 = 0,77 / 3 = 0,257$; $t_2 = 8 / 3 = 2,667$; $t_3 = 11 / 3 = 3,667$
 $t_4 = 0,77 / 1,75 = 0,44$; $t_5 = 3 + 8 = 11$
 $t_6 = 3,2 / 11 = 0,291$; $t_7 = (3 + 11) / 2 = 7$
 $t_8 = 0,77 / 7 = 0,11$

$\bar{A}_{10} = P_1 \cdot \frac{24^{0,76}}{0,76} = 0,77 \cdot 14,7281077 = 11,3463$

10.5

$\bar{A}_{10} = 2 \cdot (P_{10} - P_{10} \cdot t_{10}) = 2 \cdot (0,11 - 0,11 \cdot 10) = 2 \cdot (-0,89) = -1,78$

10.6

19.8

$S = 8 + 0$
 $t = (8) / 0 = 8$

$= 0,44 / 10; L_0 = 60$
 $= 0,56 / 8$
 $= 0,29 / 12; = 10 = 0,29 / 1$
 $= (0,56 \cdot 2) / 1 = 1,12$
 $= (0,44 \cdot 8) / 10 = 0,352$
 $= (0,56 \cdot 1) / 4 + (0,29 \cdot 1) / 4 = 0,21$
 $= ((0,29 + 0,154) / 2) \cdot 12 / 10 = 0,266$
 $= 1,12 + 0,352 + 0,3 + 0,21 + 0,266 = 2,248$
 $S > 2$

$S = 0,28 + 0,352 + 0,3 + 0,21 + 0,452 = 1,594$

10.8), $S > 100$; $S > 50$; $S = 1,594$

$\frac{11.34}{2} = 5.67$; $\frac{2.248}{2} = 1.124$

$$C = \frac{24}{\sum_{i=1}^n \frac{T_i}{K_{0i}}} = \frac{24}{\frac{6}{10} + \frac{3}{2} + \frac{1}{1} + \frac{14}{10}} = 5.33$$

$$C^* = \frac{24}{\sum_{i=1}^n \frac{T_i}{K_{0i}}} = \frac{24}{\frac{8}{10} + \frac{0.5}{1} + \frac{1}{4} + \frac{14.5}{10}} = 8$$

$8, 5.33 > 5.67, \dots$; $8 > 5.67$

$$T_p = K_p \cdot \left(\frac{24}{C} - \frac{T_0}{K_0} \right) = 10 \cdot \left(\frac{24}{8} - \frac{14.5}{10} \right) = 15.52 \text{ т}$$

: 1.

- () ;
 = 0.56 / ; (3.3) ; 3.3
 / ; 1.2 · 10⁻³

$1 = 11.34$; $S = 2.248$; $= 2$

. 2. ; $1 = 11.34$
 $S = 2.248$; 100

, 50 . 3.
 6-7 ; 360 ;
 4

1 . 360 ; 2 ; 4 ; 6 ; 6
 . 1 ;
 2 ; . 4.
 , . . . 1 = 0.77 / ; 0.2 0.3 / ;

10.11

. 5.
 10 = 19.8 ; 10.6,

: 1 ; 0.04 ; 2
 3 ; 1 ; 0.125
 2 ; 7 ;
 () ;

