

669.27:519

... .. , " : "

[1].

()

250×300

-3.

[2]:

$$\frac{\partial T}{\partial t} = \frac{1}{c(T)} \left(F_x + F_z + Q \frac{\partial \rho_{sol}}{\partial t} \right), \quad (1)$$

$$F_i = \begin{cases} \frac{\partial \left((T) \frac{\partial T}{\partial i} \right)}{\partial i}, & x, y, z \in i; \\ \frac{(\) \frac{\partial}{\partial} - k(\ -)}{\partial}, & x, y, z \in j, \end{cases} \quad (2)$$

$T -$; $\tau -$; $\lambda(T) -$
 $T; c(T) -$

$T; \rho_{sol} -$; $\rho_{lic} -$;
 $\rho = \rho_{sol} + \rho_{lic} = 8700 / ^3 -$; $x, y, z -$
 ; $i - x$; $z; Q -$; $T -$
 (, . . . -
 y); $k -$
 (, . . . y); $i -$
 , $j -$ « - ».

$$3 - 232; \quad -173 \quad / (\quad^2 \quad); \quad 1 - 1200 \quad / (\quad^2 \quad); \quad 2 - 464; \quad -$$

$$T(\tau) \quad (1) \quad -$$

$$T(x, y, z, \tau + \Delta\tau) = T(x, y, z, \tau) +$$

$$+ \frac{\Delta\tau}{c(T)\rho} \left(F_x(x, y, z, \tau) + F_z(x, y, z, \tau) + Q \frac{\Delta\rho_{sol}(x, y, z, \tau)}{\Delta\tau} \right), \quad (3)$$

$$F_x(x, y, z, \tau) - \quad , \quad [3].$$

$$(380 \times 330 \times 18000)$$

$$\Delta X = 10 \quad , \quad -$$

$$\Delta Z = 10 \quad \Delta Y = 20 \quad .$$

$$\Delta\tau = 0,08 \quad .$$

$$\Delta\rho_{sol}(x, y, z, \tau) = \rho(x, y, z, \tau)(T_{lis}(C_{lis}) - T)c(T) / Q \quad ; \quad (4)$$

$$\rho_{sol}(x, y, z, \tau + \Delta\tau) = \rho_{sol}(x, y, z, \tau) + \Delta\rho_{sol}(x, y, z, \tau); \quad (5)$$

$$\rho_{lic}(x, y, z, \tau + \Delta\tau) = \rho_{lic}(x, y, z, \tau) - \Delta\rho_{sol}(x, y, z, \tau), \quad (6)$$

$$\rho_{sol} - \quad ; \quad \rho_{lic} - \quad ; \quad \rho =$$

$$= \rho_{sol} + \rho_{lic} - \quad ; \quad T_{lic}(C_{lic}) - \quad ,$$

$$0,75 / \quad = 0,0125 / ,$$

$$0,02 \quad ,$$

$$0,08 \quad ,$$

$$0,02 / (0,08 \cdot 0,0125) = 20 \quad .$$

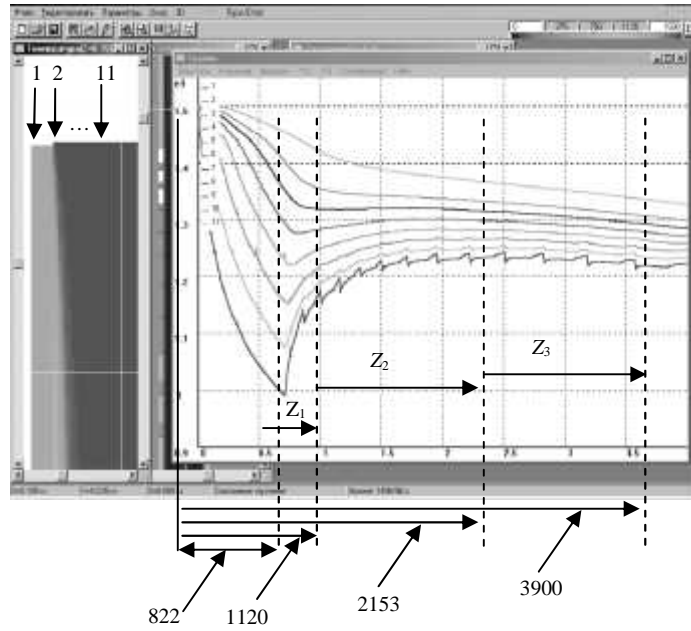
$$3 - 20 \quad 3 \quad ; \quad 4 - 2 \quad 45. \quad : 1 - 70 \quad ; \quad 2 - 40 \quad ;$$

$$\langle \quad \rangle \quad ; \quad -3 ($$

$$[5, 6]$$

. 1.

. 1



. 1.

« 1 (-) - 2 (-) - 3
 (-) - 2 (-) - 3
 (80 , 250×300) » - 3

. 2
 = 0,125 ,

Z = 0,0025

-3,

(. 2),

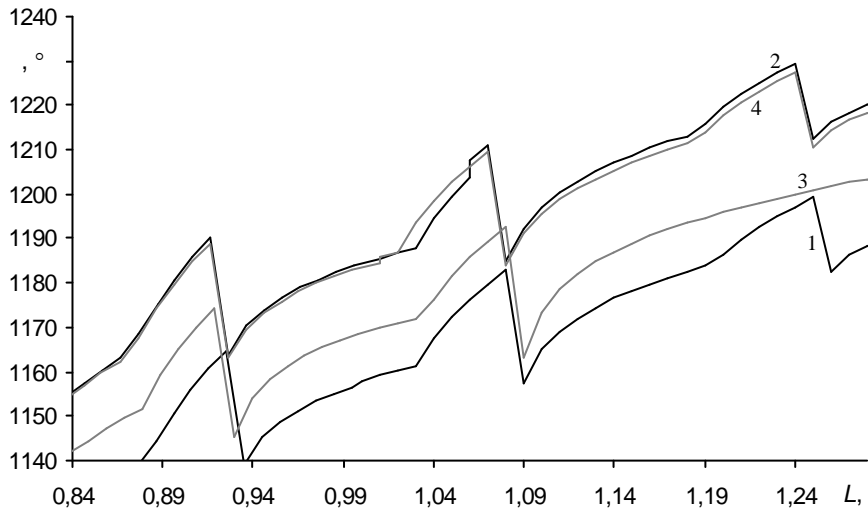
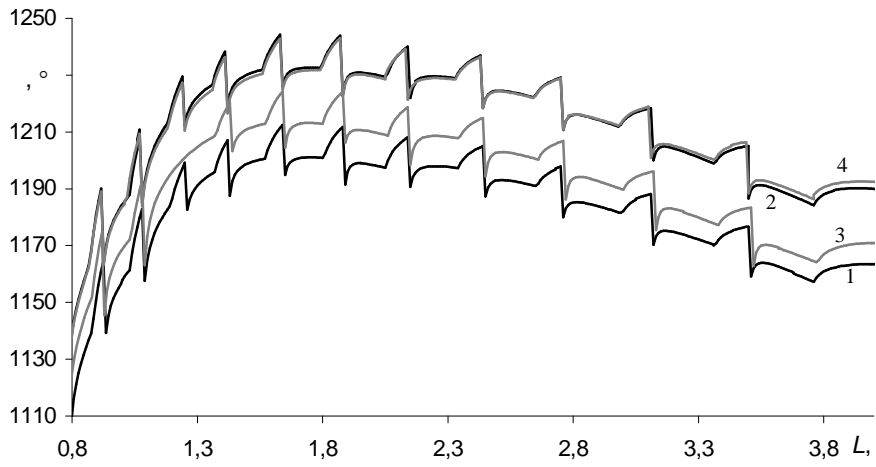
0 0,84
 0,0025 () ,

(. 2)

40 ,
 70 .

20 3 2 45

70 40 .



. 2.
Z = 0,0025

1 = 0,125

$$1 + \frac{1}{(1 - 70, 2 - 40, 3 - 40, 3, 4 - 2, 45)}$$

$$\left(\frac{0,84 \dots 1,28}{-1 + \dots} \right) \quad (.3)$$

40 .

0,84...0,86; 0,93...1,02; 1,09...1,15

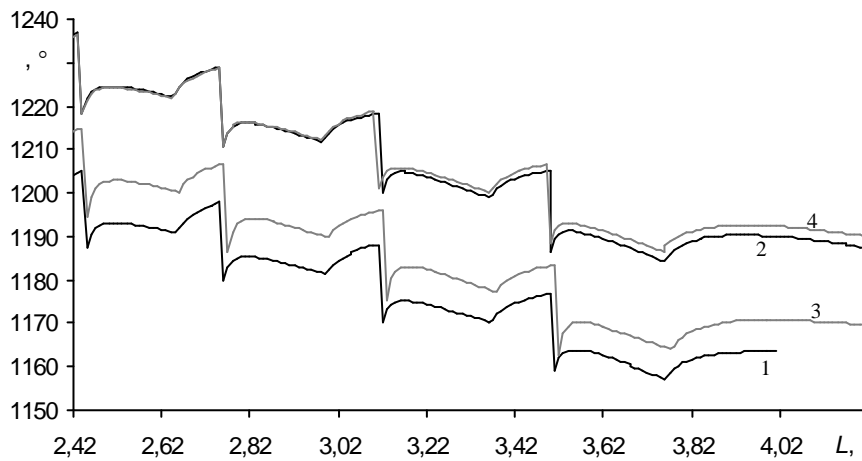
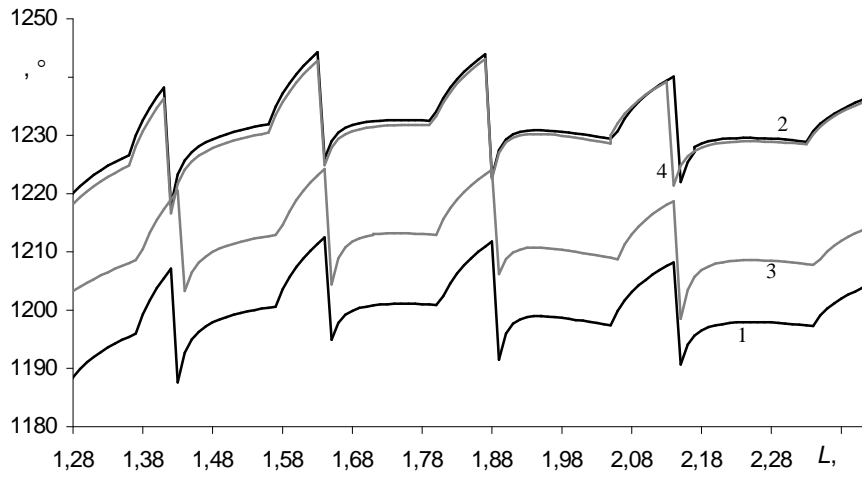
20 3 .
2 45 ,

0,84...1,28

20 3 .

1

20 3 ,
2 45, -



. 3. $Z = 0,0025$ $\frac{1}{2} = 0,125$,
- $-3(1-70, 2-40, 3-40, 3, 4-2, 45)$

250×300

70 , 40 , 20 3 , 2 45

0...4,3
40

2 45
70 .

1. 1984.-200 .
2. -2003.- 2.- .42-48.
3. i i . i.- . -1999.- 1.- .65-69.
4. « »
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5. ,2001.-671 .
6. ,1968.-332 .

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40

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8.10.2004

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[1...3].

(,) .

[4...8].