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... , ... , ... ,  
 ... , « »

3 – 4,5

The estimation of an opportunity of the weaved electrodes surface development is resulted. Dependences of surface development factor on a step of the weaving scheme and amount of semitoruses are received at the use of a wire of different diameter. It is displayed, that the weaved electrode surface can be explicated in 3 – 4,5 time after a ratio to the flat electrode surface area.

[1, 2].

1  
3 -  
1, 2 3  
:

$$_1 = 1 - \cdot d^2 / 2L^2 + ^2 \cdot d / 2L,$$

$$_2 = 1 - \cdot d^2 / L^2 + ^2 \cdot d / L,$$

$$_3 = 1 - 3 \cdot d^2 / 2L^2 + 3^2 \cdot d / 2L,$$

d - , L - .

:

$$_n = 1 - \cdot d^2 \cdot n / 2L^2 + ^2 \cdot d \cdot n / 2L, \tag{1}$$

n - .

2- ( .1 ) .2 .

.2 ,

9

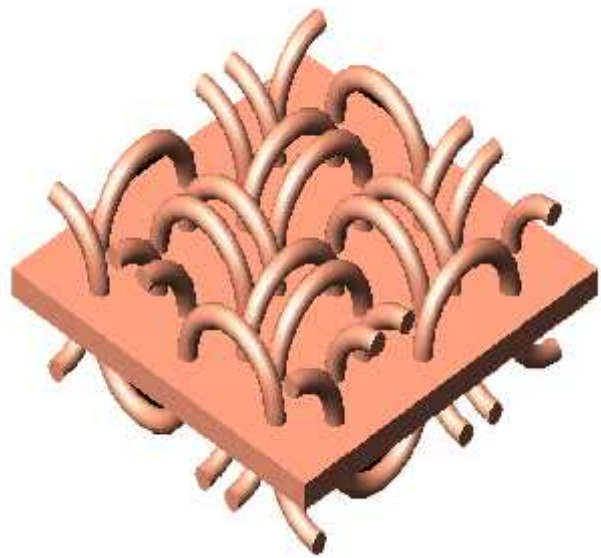
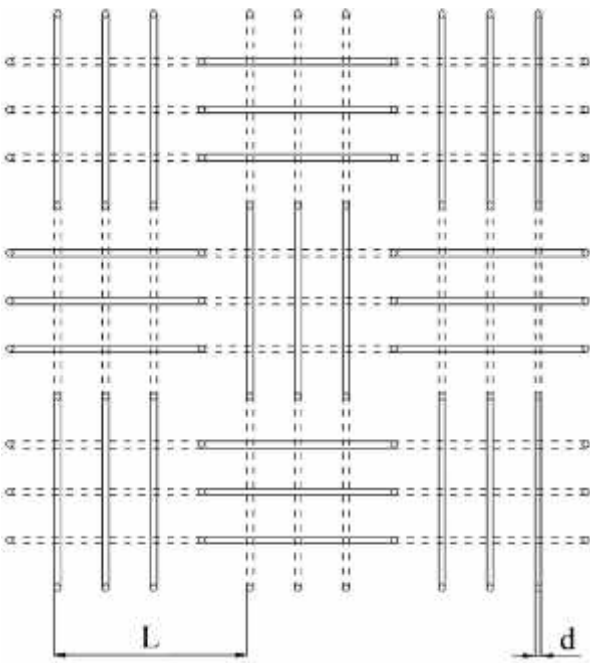
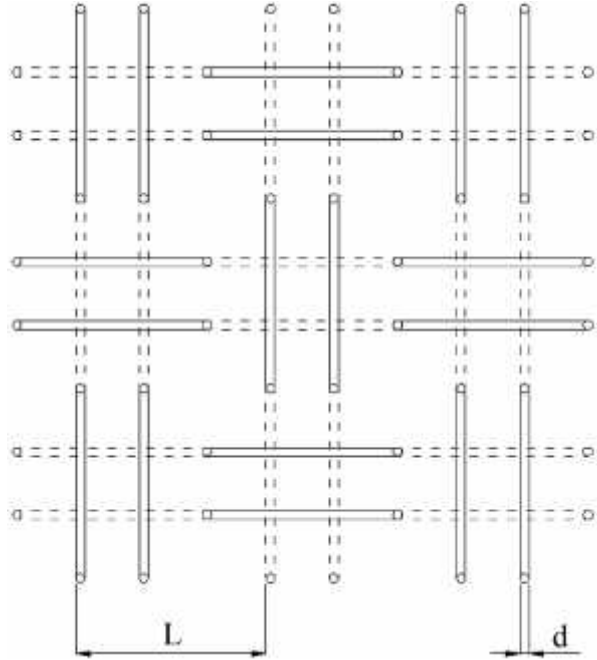
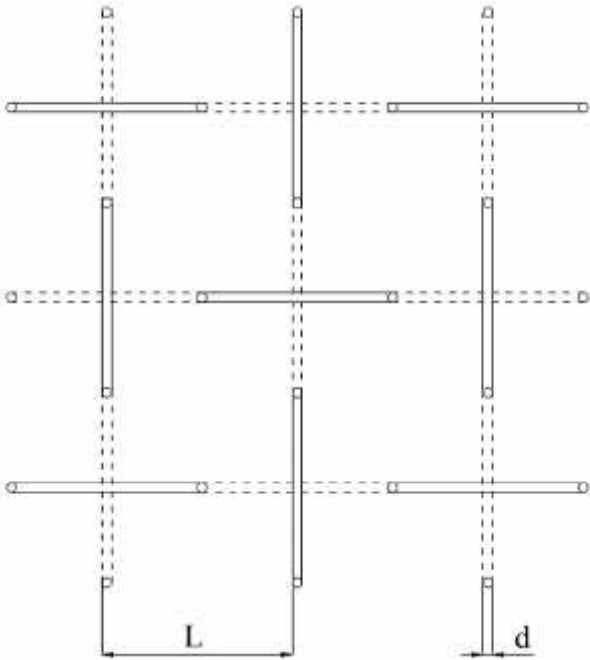
L = d ,

$L$ .

$L$

:

$$L_o = (n+1) \cdot d. \quad (2)$$



.1.

( - )

( )

, , , , ,  $L_d$  -

:

$$L_d = (2n+1) \cdot d. \quad (3)$$

$$(2) \quad (3) \quad (1),$$

:

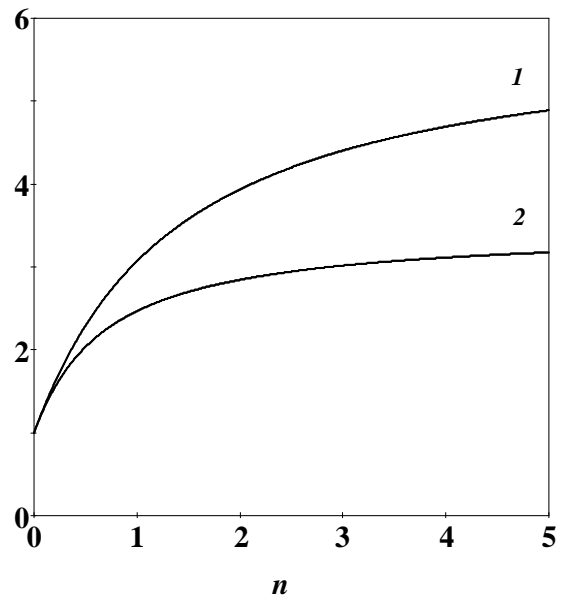
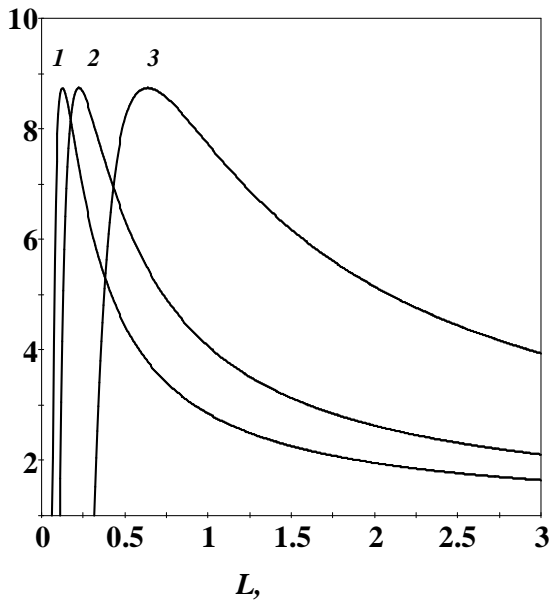
$$o = 1 - \frac{\cdot n}{2(n+1)^2} + \frac{^2 \cdot n}{2(n+1)} \quad (4)$$

$$d = 1 - \frac{\cdot n}{2(2n+1)^2} + \frac{^2 \cdot n}{2(2n+1)} \quad (5)$$

.2 , (4) (5),

3- -

2- - .



, : 1 - 0,2; 2 - 0,35; 3 - 1,0.

: 1 - , 2 - .

.2.

$L()$

$n()$

, , , -

.1 , , -

$d/2$ .

(2) -

3 , (3) - 4,5

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. . , . . , . . , . . ,  
. . , . . , . . ; , . . ,  
« »

### Y - Ba - Cu - O

Y- - u- . ,  
.

In the article the results of the main properties research for the composite materials on the basis of the Y- - u- system are shown. It has been found that the synthesis products have high temperature superconductivity.

Y- - u-

Y- - u-

[1] (