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 .
 -32, 1-
 , .
 (-, -,),
 65-75° 3-
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 60-80 .

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- [2].
 , [1].
 ,
 .

[2].

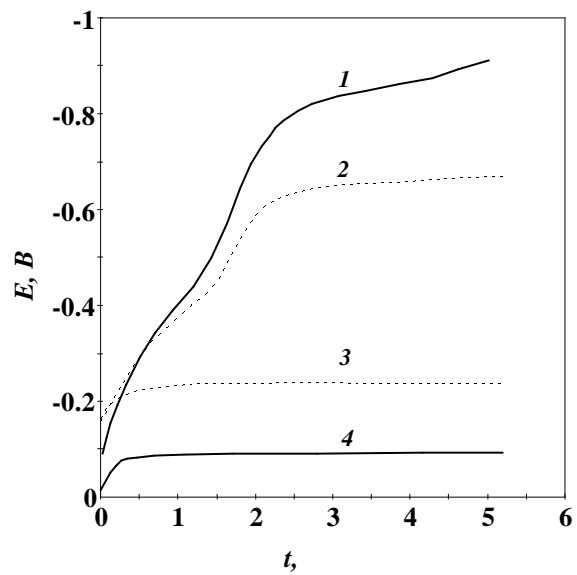
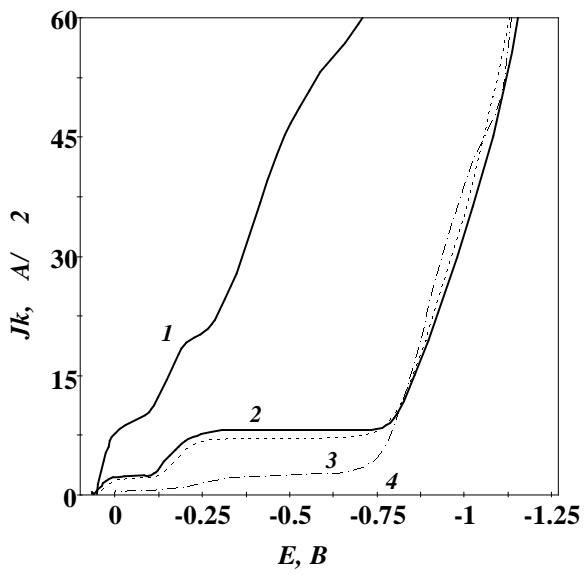
[3].

Cu/Cu-Ni,

0,35

(-0,8)

(.1).



. 1.

(2-4) (1)

[Cu²⁺]:

[Ni²⁺]: 1, 2 – 1:2,5; 3 – 1:6; 4 – 1:16.

. 2.

(2, 3) (1, 4)

, / ²: 1-
1- 6, 2 – 3,5, 3 – 2,5, 4 – 4,5.

15-20 (.2, .3)

， -
(.1).

(.4).

: 1.

5. - .465-467. 2.

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