



-

,

• • •

”

”

”

”

()

,

-

,

. . .

" " " "

()

,

28 6
2020 .

2020

7 22 2020 .

:

. . . , . . . , " "
. . . , . . . , -

" : " .
" " (-
) / . . . - . . . ; ∴
. . . : [. . .], 2020. - 10 .

" " -
" " (-
). , ,
, ()
,

(. . .) : . . . , - . . . , .

1.

2.

3.

-
-
-
-
-
-

)

0,8 4,0)

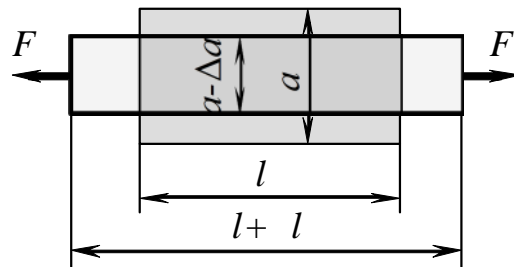
μ .

-1,

-5,

l

a (.1.1).



.1.1.

$$\varepsilon = \frac{\Delta l}{l};$$

$$\varepsilon' = \frac{\Delta}{l}.$$

$$\mu = -\frac{\varepsilon'}{\varepsilon}. \tag{1.1}$$

() .

0,

— 0,5.

0,3,

0,49.

,
() .

(,

(,) .

, :

$$E = \frac{\sigma}{\varepsilon} . \tag{1.2}$$

F A ,
() :

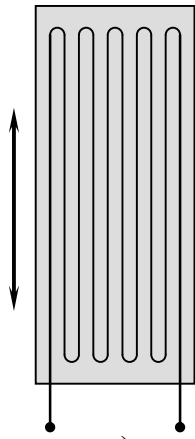
$$E = \frac{F}{A \cdot \varepsilon} . \tag{1.3}$$

- / ² () .

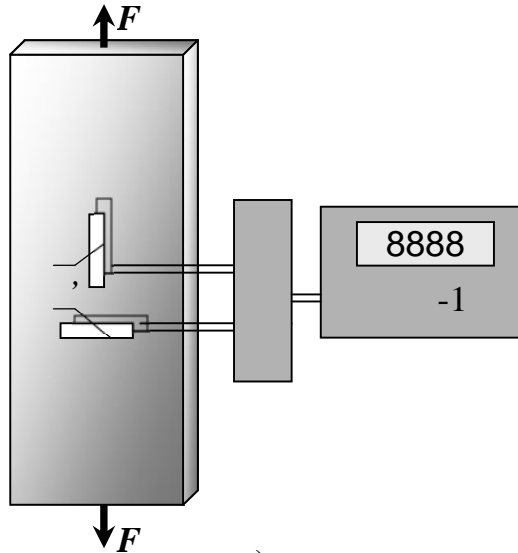
(.1.2,) .

-1,

.1.2, .



.1.2.



()
-1 ()

’ -5, -1, .
-1. " " N_0 1.1
(0). " "
-
.1.1. 1.1

/	,	N_0	ΔN	N_0	ΔN
		N_P		N_P	
1	0				
	15				
2	0				
	15				
3	0				
	15				

$F = 1500$ (15), -5 N_P -

1.1 (15). -
 , ($\Delta N = N_P - N_0$) -

2-3 , ΔN .
 (1.1). -

$(\varepsilon = \Delta N \cdot 10^{-5})$, ΔN -
 , (1.3) -

F ,

$$E = \frac{F}{A \cdot \varepsilon} = \frac{15 \cdot 10^3}{(0,8 \cdot 4) \cdot 10^{-4} \cdot \Delta N \cdot 10^{-5}} = \frac{15 \cdot 10^6}{3,2 \cdot \Delta N} = \dots \text{ ()}$$

μ _____ , -
 () , ,

1. ?
2. , ?
3. ,
4. (-
5.)? , ,

1. : / . . ,
 . . . , . . . , . . . , . . .
 . . . - . , 1996. 288 .
2. : . / . . , . . . : -
 . . . - . . 1993. 655 .
3. : -
 / . . , . . . , . . . - 3
 . . . - . : , 2001. - 272 .
4. - . URL: <http://www.sopromat.org/> (6.12.2019)

	,		
	<i>E</i>	<i>G</i>	μ
,	$(1,15...1,60) \cdot 10^5$ $1,55 \cdot 10^5$	$4,5 \cdot 10^4$ -	0,23...0,27 -
	$(2,0...2,1) \cdot 10^5$ $(2,1...2,2) \cdot 10^5$	$(8,0...8,1) \cdot 10^4$ $(8,0...8,1) \cdot 10^4$	0,24...0,28 0,25...0,30
	$1,1 \cdot 10^5$ $1,3 \cdot 10^5$ $0,84 \cdot 10^5$	$4,0 \cdot 10^4$ $4,9 \cdot 10^4$ -	0,31...0,34 - -
	$(0,91...0,99) \cdot 10^5$ $1,0 \cdot 10^5$	$(3,5...3,7) \cdot 10^4$ -	0,32...0,42 0,36
	$0,69 \cdot 10^5$ $0,7 \cdot 10^5$ $0,71 \cdot 10^5$	$(2,6...2,7) \cdot 10^4$ - $2,7 \cdot 10^4$	0,32...0,36 - -
	$0,84 \cdot 10^5$	$3,2 \cdot 10^4$	0,27
	$0,17 \cdot 10^5$	$0,7 \cdot 10^4$	0,42
	$0,1 \cdot 10^5$	$(0,28...0,3) \cdot 10^4$	-
	$0,56 \cdot 10^5$	$0,22 \cdot 10^4$	0,25
	$0,49 \cdot 10^5$	-	-
	$0,42 \cdot 10^5$	-	-
	$0,56 \cdot 10^5$	-	-
	$0,18 \cdot 10^5$	-	-
,	$(0,09...0,1) \cdot 10^5$ $0,06 \cdot 10^5$ $(0,027...0,030) \cdot 10^5$	- - -	- - -
10	$(0,146...0,196) \cdot 10^5$	-	0,16...0,18
20	$(0,182...0,232) \cdot 10^5$	-	0,16...0,18
	$(0,1...0,12) \cdot 10^5$ $(0,005...0,01) \cdot 10^5$	$0,055 \cdot 10^4$ -	- -
	$0,00008 \cdot 10^5$	-	0,47
	$(0,06...0,1) \cdot 10^5$	-	-
	$(0,1...0,17) \cdot 10^5$	-	-
	$(2...3) \cdot 10^3$	-	0,36
	$(1,43...2,75) \cdot 10^3$	-	0,33...0,38

" " " "

:

,

60×84 1/16. Times New Roman.

. . .0,58 .
100 .

61002, . , . ,44