

30290-94

2-97

-  
( )

30290-94

1 ( ) -

2 -  
( ) 10 1993 .


3 1 1996 . -  
29 1995 . 18—49 -

4

5 . 2001 .

© , 1996  
© , 2001

, -

II

1	.....	1
2	.....	1
3	.....	1
4	.....	3
5	.....	3
6	.....	4
	.....	6
15	.....	7
15	.....	9
	.....	11
	.....	13
	.....	15
	.....	17
	.....	19
	.....	21
	.....	22

30290-94

Building materials and products.  
Surface converter method of thermal conductivity determination

1996—01—01

1

0,02 1 /( )

278—313 (5—40° ).

2

:

8.315—91

,

,

,

,

12730.2—78

21718—84

23422—87

23468—85

3

3.1

1),

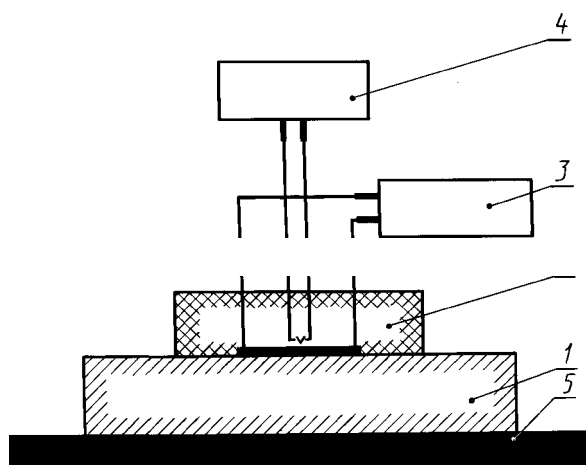
:

(

1

30290-94

— , —  
 , —  
 . ;  
 — ;  
 — ( , ),  
 3.2  
 110°  
 ( ), ,



1 — ; 2 — ; 3 —  
 ; 4 —  
 ; 5 —  
 1 — -

4	—	
4.1	,	-
	.	-
	.	-
4.2	,	-
4.3	,	-
300 300 50	,	
	.	-
4.4	5	.
	.	-
( 21718, 23422 12730.2).		
5	—	
5.1	,	
	,	-
	,	-
4,		
	.	
	15	
		-
( 1).		
5.2	,	-
5.3	,	-
5.4	,	-
	,	-
	.	-
5.5	,	-
	.	-
		3

6

$$= 1, 2, \dots, l, \dots, , \dots, l, \dots, , \dots, \langle$$

( ).

15

**X**

$$Z_m = -S_q. \quad (2)$$

$$1 - \exp - \quad (4)$$

$$1 - \frac{1}{a_n} \quad (5)$$

[illegible]

**/ > «min;      < «max;      = 21;**

/ — , -

( ).

-56

23468

14

6.3

15

$$X = \left( \begin{array}{c} \sqrt{\frac{(z_m - b_3)(z_l - z_i)}{(Zi - K)(z_m - z_s)}} \end{array} \right) \quad (6)$$

$$\frac{\mathbf{E} s l}{x_l < i} \quad (7)$$

$$m = 21; i < l < m,$$

$$| < -X_{k-1} < | < < X_{k+l} - < |,$$

6.4

6.5

6.6

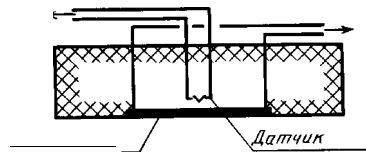
7%.



30290-94

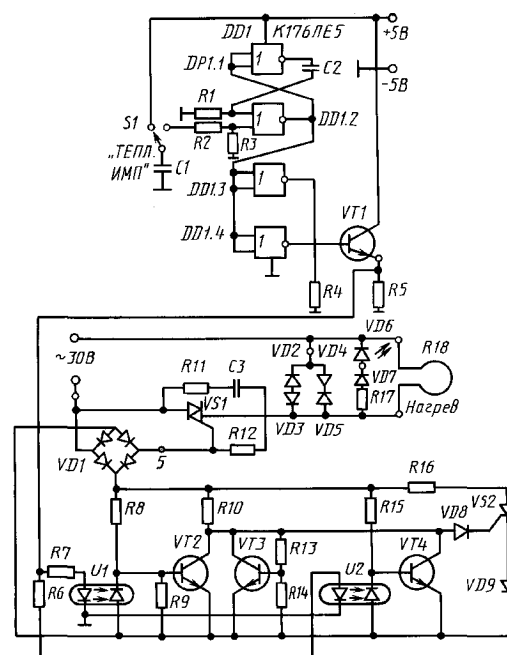
( )

—  
( ) 150 / 3, 140  
55 . 20 — 15 15, 60 —  
15 0,15—0,25 ,  
“ ” ,  
“ ”  
“ ”  
15 , 20 — ( 15 ) 40 ,  
15 ) . —



( )

15



30290-94

15

CI— 10—7 — —130 ± 20%  
2— 73—9—100 —0,25 ± 10% .461.087  
— 73—9—100 —0,1 ± 10% .461.087  
—0,25 ± 10%

R1-75	R5-22	R9-75	R13-110
R2-2	R6-3	R10-10	R14-910
R3-3	R7-3,9	R11-10	R15-2,2
R4-47	R8-1,5	R12-100	R16-300
	R17-2,2		
	DD1— 176 56 .348.006—01		
	VT1, 4— 176 5 .336.053		
	UI, U2— 16		

VD1— 405 ;» 2, VD4- 8166; VD3, VD5, VD9-L310

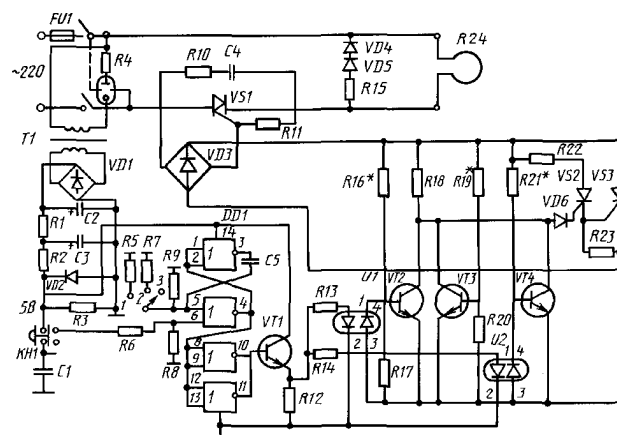
VS1— 208  
VS2— 101  
S1-KM-1

8

( )

15

( )



30290-94

15

Cl— 10—7 — —130 ± 20%  
 2- 50-6-100 -15  
 - 50-6-100 -15  
 4— 73—9—100 —0,1 ± 10% .461.087  
 5— 75—9—100 —0,25 ± 10% .461.087

-0,25 ± 10%

R1-560	R7—1,8	R13—3,6	R19-820
R2-200	R8—3,3	R14—3,6	R20—7,5
R3—10	R9—1,8	R15—5,1	R21—2,2
R4—36	R10-100	R16—4,3	R22—5,6
R5-430	R11-56	R17-75	R23-51
R6-75	R12-22	R18-100	R24— . 10

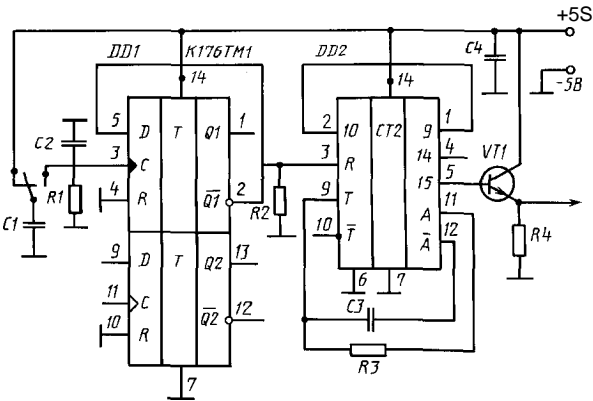
VD1, VD3— 405 VD2-KC147a 4- 307 5- 223 6- 331

DD1— 176 5 6 .348.006—01  
 VS1— 132—40—12 VS2— 101 83- 201  
 VT1, VT4— 3102  
 UI, U2— 16  
 1- 272- 127/220-50  
 - 1-1

10

( )

( )



30290-94

CI—	10—7	—	70—0,01	± 20%
2—	73—7	—	—6800	± 20%
		-	-500	
—	10—7	—	90—0,068	± 10%

	—0,25 ± 10%
R1-200	±10%
R2-200	- 10%
R3-100	- 10%
R4-11	- 10%

DD1-K176	16	.348.006—01
DD2-K176	56	0.348.006-01

VT1-KT3166	.335.200
------------	----------

( )

8.315,

150 / 3.

5.  $C_q, C_r$

$$= \text{const} \left( \frac{X_{in} \text{const}}{C_q} \right) \frac{1}{( )_t ( )_2}$$

$$\frac{(X_{in} C_{q,2} - (4))}{( )_1 ( )_2} \quad (1)$$

$$C_Q = (X_{in})_1 ( + b_0) = (X_{in})_2 ( + b_2), \quad (2)$$

$$b_2 = \frac{1}{(2 - \Lambda^2 - )};$$

$$b = \quad ( )$$

$$, \quad 1/(3 - ).$$

$$\frac{C_R}{\ln 1 - X_{in}(b + )} \quad (-4)$$

$$C_R = \ln 1 - \quad (-5)$$

$$4 \cdot 1 - [ 1/( ) ]$$

$$, \quad 2/ ;$$

$$= X/ \quad (6)$$

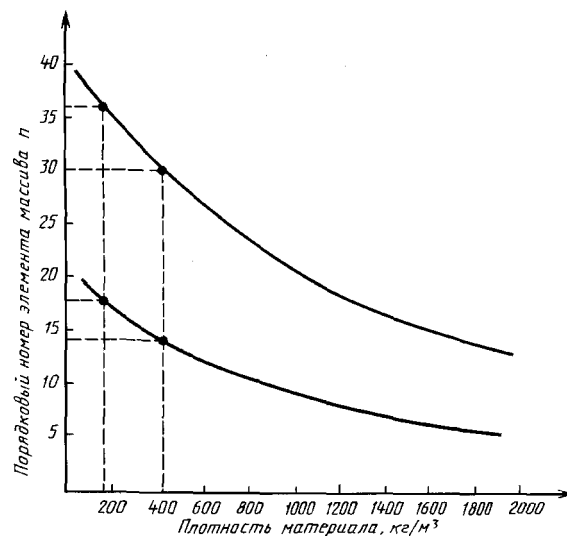
$$X, -$$

$$(1).$$



30290-94

7%



.1 —

( )

400 / 3

150 / 3

- 102, -102, -102, 583, 608, 499, 418, 363, 322, 290, 260, 237, 218, 200, 185, 173, 162, 150, 139, 128, 119, 110, 102, 94, 86, 79, 73, 67, 61, 55, 50, 45, 41, ...  
 — 50, —49, —50, 869, 975, 790, 678, 601, 544, 500, 463, 431, 402, 380, 359, 339, 322, 307, 290, 279, 269, 257, 246, 235, 216, 207, 199, 191, 183, 176, 169, 162, 156, 150, 144, 139, 134, 129, 124, 121, ...

( ) ( ) (—102) 1 2.  
 (583, 608, 499, . .).  
 400 / 3 ( .1) 14—30,  
 : l = 14, l = 264 «2 = 28, 2 = 152 ( 1  
 \*); l = 15, l = 252 2 = 30, 2 = 143 ( 1 \*\*).  
 l = 18, l = 319 2 = 36, 2  
 = 179 ( 2 \*).  
 Cq= 310000, brt = 115, = —1,154- '5, / = —48,  
 ) — . = 0,10 /( - ),  
 X=0,10 /( - );  
 ) — X=0,048 /( - ).

30290-94

Е I

	X	4		X
1	685	685	172	30
2	710	1004	18	221
3	601	1040	19	212
4	520	1040	20	204
5	465	1040	21	196
6	424	1039	22	188
7	392	1037	23	181
8	362	1024	24	175
9	339	1017	25	169
10	320	1012	26	163
11	302	1002	27	157
12	287	994	28*	152*
13	275	992	29	147
14*	264*		30**	143**
15**	252**			
16	241			
$X_1 = 0,10; \quad z_2 = 0,10$				

Т а б л и ц а Е2

П е н о п о л и с т и р о л						
n	x	$X\sqrt{n}$	n	x	n	X
1	819	819	17	329	33	194
2	1025	1450	18*	319*	34	189
3	840	1455	19	307	35	184
4	728	1456	20	296	36*	179*
5	651	1456	21	285		
6	594	1455	22	275		
7	550	1455	23	266		
8	513	1451	24	257		
9	481	1443	25	249		
10	452	1429	26	241		
11	430	1426	27	233		
12	409	1417	28	226		
13	389	1403	29	219		
14	372		30	212		
15	357		31	206		
16	340		32	200		
$\lambda = 0,048$						

( )

( -56),

15

		-			-			-
1	8	68	23	8	68	45	7	67
2			24			46		13
3	1	61	25	2	62	47	1	01
4		13	26		13	48	—	11
5	Fexp	16	27	Fexp	16	49		40
6	1-1	OL	28	1-1	OL	50	F Ln	18
7	1	01	29	1	01	51	2	62
8	+	10	30	+	10	52	X	12
9	Fl/x	23	31	Fl/x	23	53	Fl/x	23
10	9	69	32	9	69	54		66
11	X	12	33	X	12	55	X	12
12	!	4	34		4	56	F V~~	21
13		63	35		63	57		4-
14			36			58	1	01
15	4	64	37	5	65	59		
16		13	38		13	60		60
17	1	61	39	2	62	61	—	11
18	F V~~	21	40	f V~	21	62		6
19		13	41		13	63	X	12
20	(3	6	42	(3	6	64		6-
21	—	11	43	—	11	65	X	12
22	7	47	44		4	66		50

Cq	3	Xi	1
Cr	9		2
Cr /	6		4
	8		5

30290-94

15

		-			-			-
1	2	62	23	X	12	45		6-
2	F V~~	21	24	Fl/x	23	46	—	
3			25		6L	47		60
4	1	61	26	X	12	48	X	12
5	X	12	27	9	49	49	(3	6
6	Fl/x	23	28	7	67	50		13
7		6L	29	—	11	51	14	OL
8	X	12	30		40	52	F Ln	18
9	7	47	31	8	68	53	Fl/x	23
10	4	64	32			54		6
11	F V~~	21	33		6-	55	X	12
12			34	—	11	56		66
13		63	35		60	57	X	12
14	X	12	36	X	12	58	F	21
15	Fl/x	23	37		4	59		60
16		6L	38	8	68	60	7	67
17	X	12	39			61		
18	8	48	40	7	67	62		6-
19		66	41	—	11	63	—	11
20	F V~~	21	42		40	64		60
21			43	9	69	65	X	12
22	5	65	44			66		50

/	3 9 6 8	<i>Xi</i> <i>Xi</i>	2 4 6 1 3 5

18

( )

—

( .1)

.2,

$X = ftp)$

$X = ftp) ($  .1 .2)  
( )

$=fi(n),$

.1

$X$

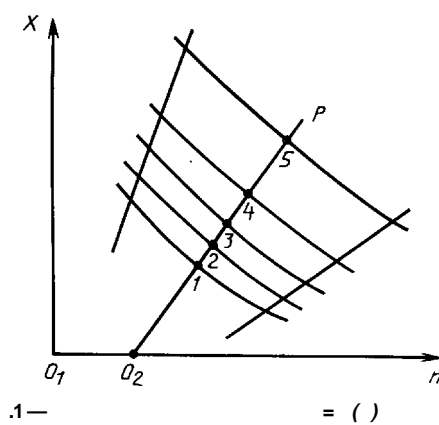
$X = ftp) ($

.2),

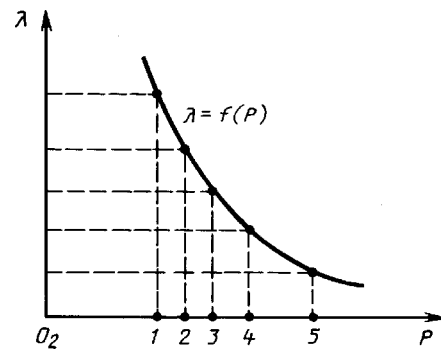
( .1)

$= fin)$

$X$  —



30290-94



.2—

$= j'(n)$

( )

—

.1 .2  
'(

' = const. , 'fn = const  
= 3, 4, 5 , = 3, 4, 5, 6, 7  
( 4 )

1076,

— 1455.

( .1) ( .2),  
( . ),

-

=

840-400 /( 3- ), \ = 183 /( 2- 1/2- );

=

840-150 /( 3- ), 2 = 198 /( 2- 1/2- )'  
( .1) ( .2) = 115 Cq = 310000.

( .4)

/

18 &lt; &lt; 36

:

	16	18	20	22	24	26	28	30	32	34	36
— Cr /	45,9	47,8	48,1	47,8	46,0	48,4	48,3	47,9	48,0	48,1	48,2

( ^ ) = —48, Cr ( .5),

= 0,1/(840-400) 2/ .

	12	14	16	18	20	22	24	26	28	30
- 5	1,01	1,17	1,16	1,15	1,16	1,14	1,15	1,15	1,14	1,16

= —1,154 10<sup>5</sup> 14 < < 30.

18 &lt; &lt; 36

14 &lt; &lt; 30 —

X

.1,



30290-94

X,

( .1).

( )

150 / 3      400 / 3

0,2 ,

400 / 3

= 14

= 30,

30

150 / 3

= 18

= 36,

36

40

4 .

30290-94

691:536.2:006.354

91.

19

5709

:

,

,

,

-

**<https://minable.ru/gosty>**