



2010

Non-destructive testing.  
Metal seamless cylindrical pipes and tubes.  
Ultrasonic methods of defect detection

**17410-78**

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23.040.10

**01.01.80**

© , 1978  
© , 2010

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3. +1,5 .

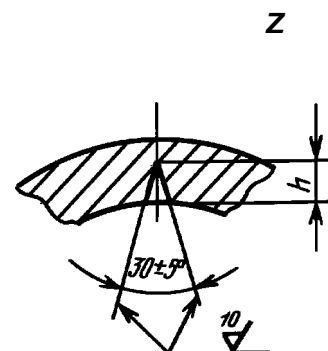
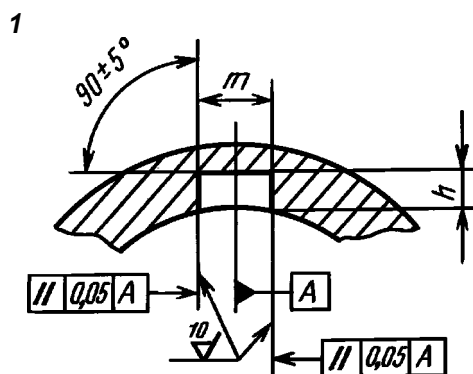
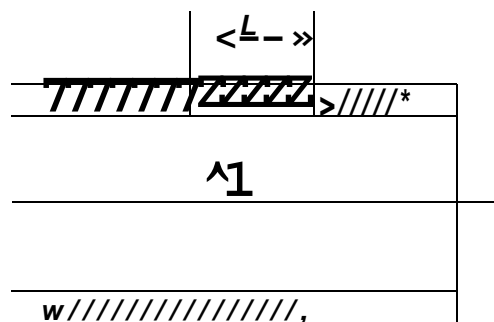
1.7.1.

— . 7—12, — . 1—6, — . 13—14.

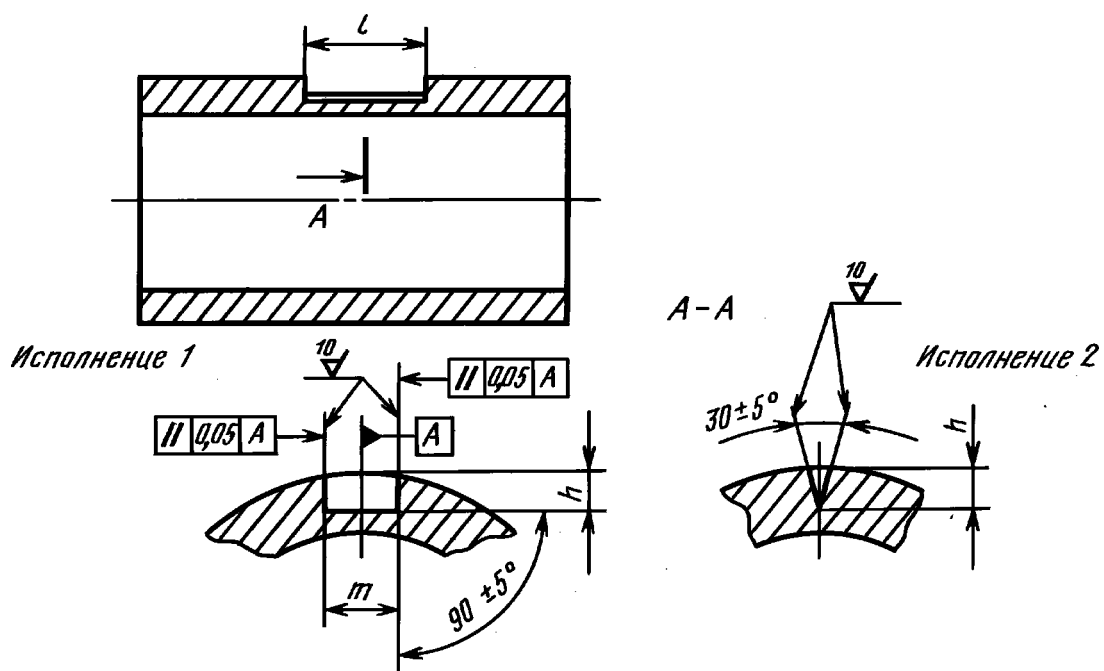
1.7.2.

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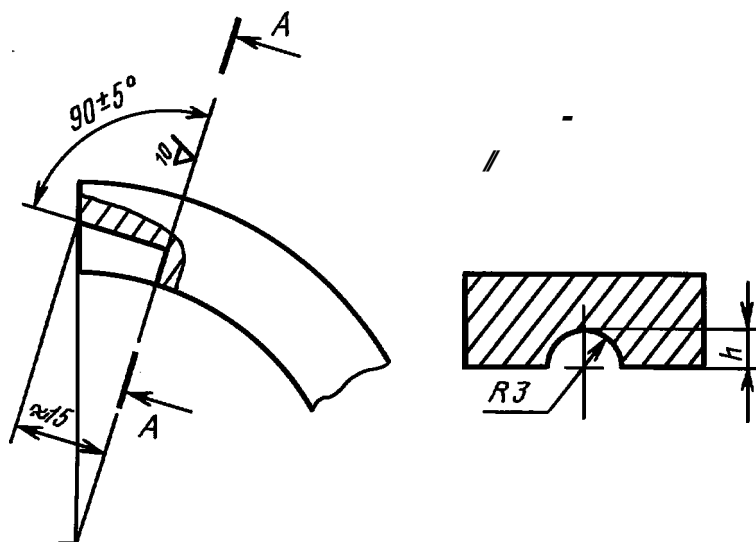
( . . 1, 2, 7, 8) ( . .  
( . . 3, 4, 9, 10), ( . . 5, 6, 11, 12),  
( . . 14)



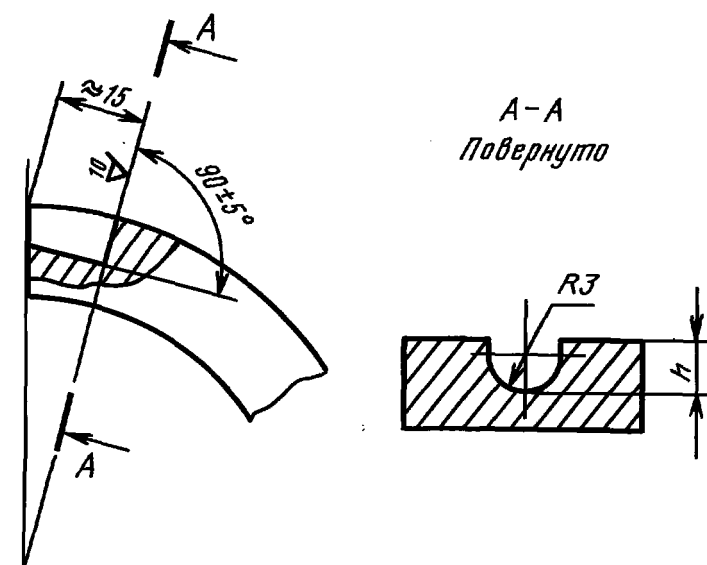
Черт. 1



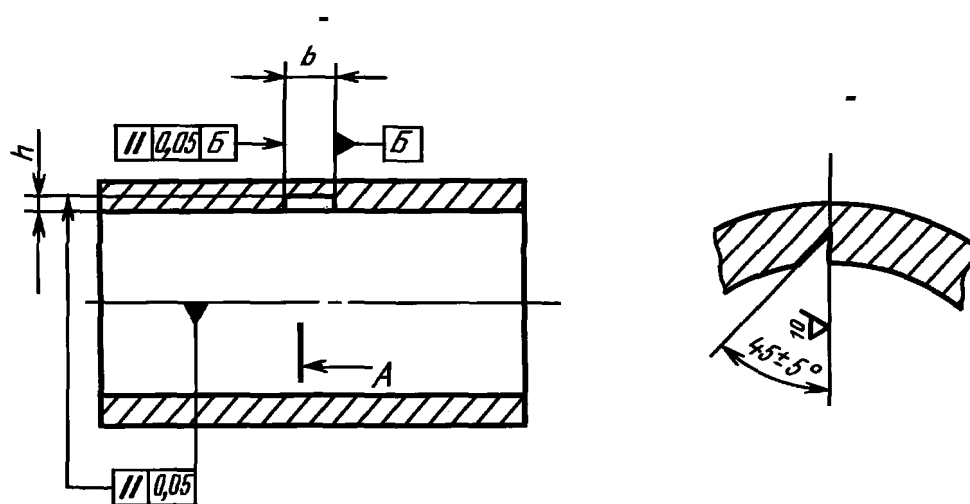
Черт. 2



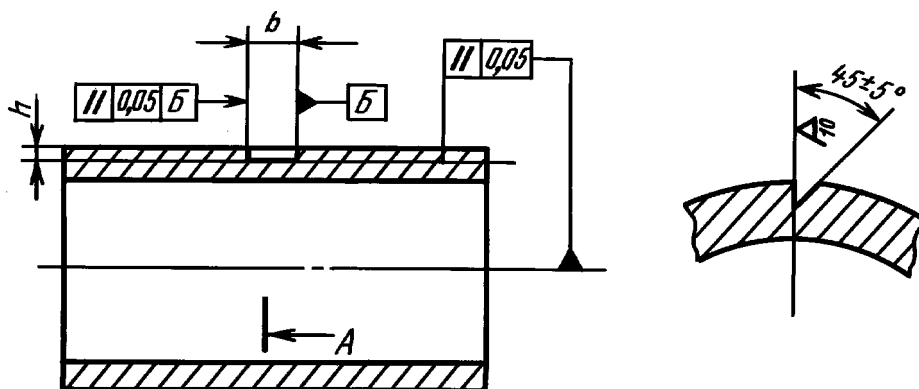
Черт. 3



Черт. 4

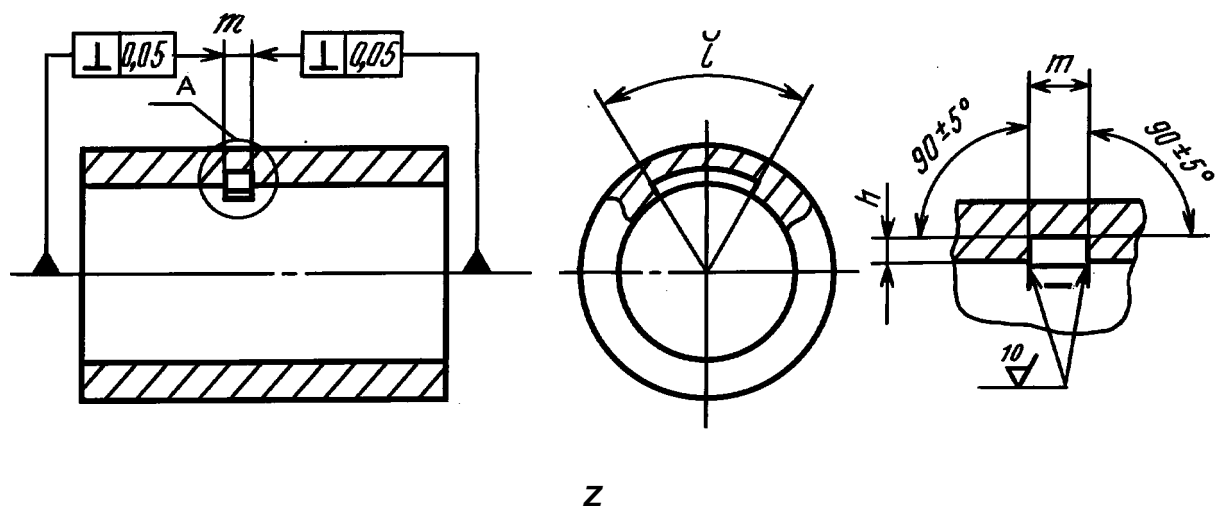


Черт. 5

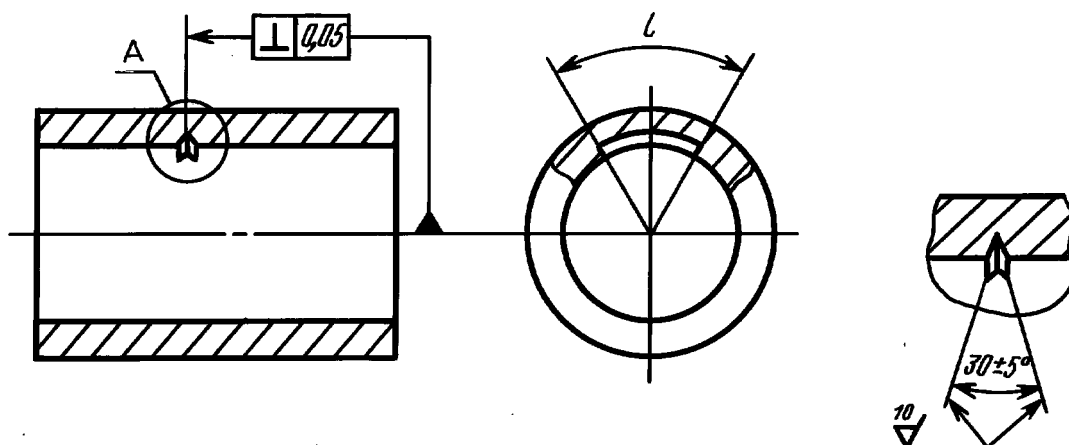


Черт. 6

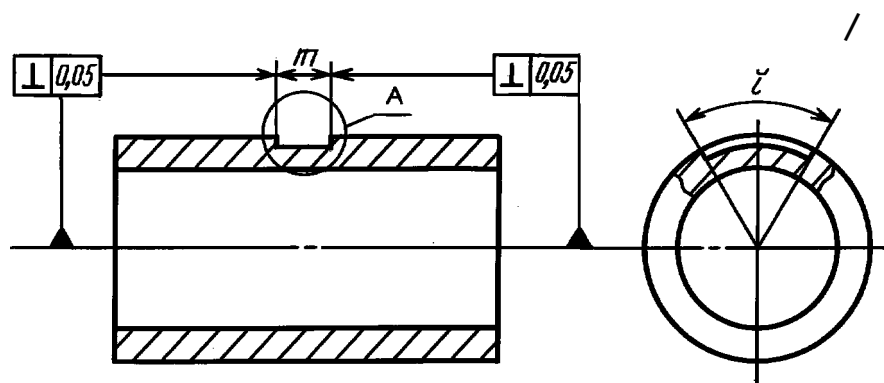
Исполнение 1



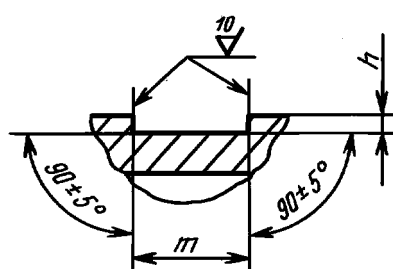
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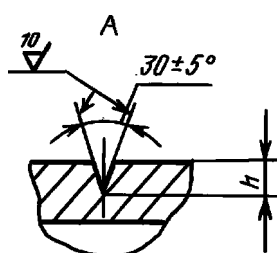
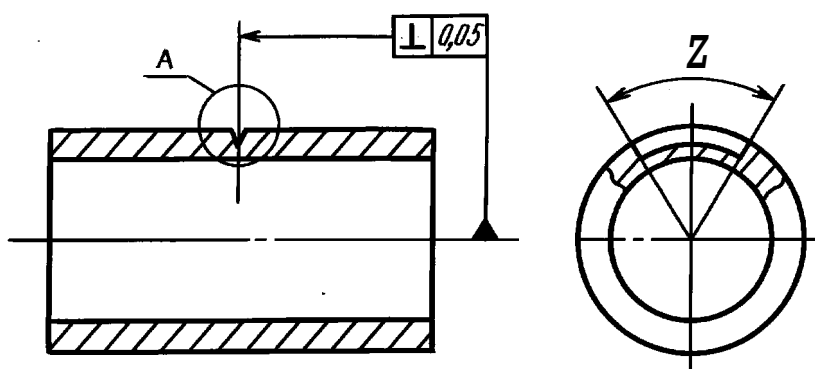
Черт. 7



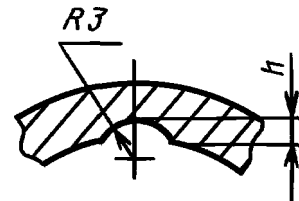
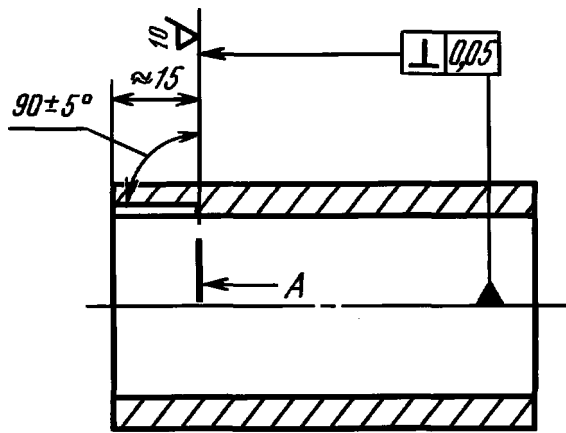
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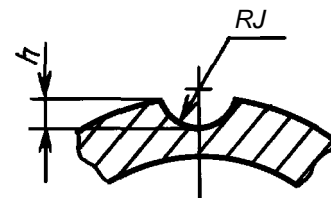
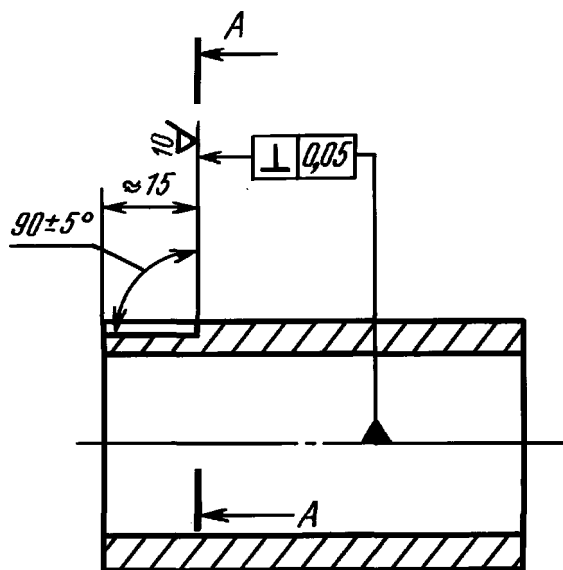
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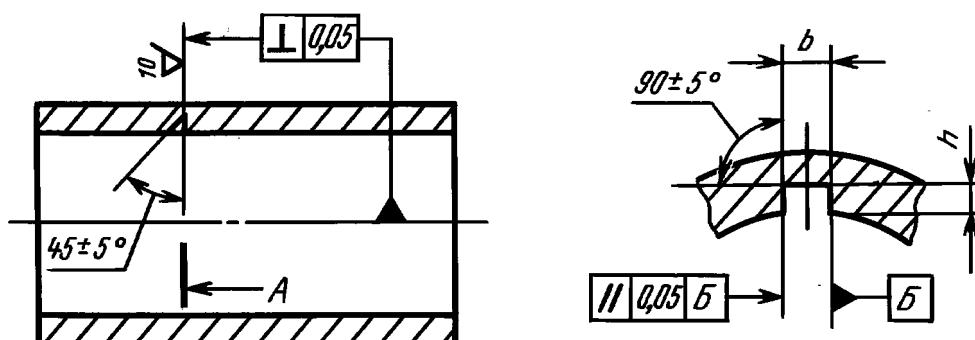


Черт. 9

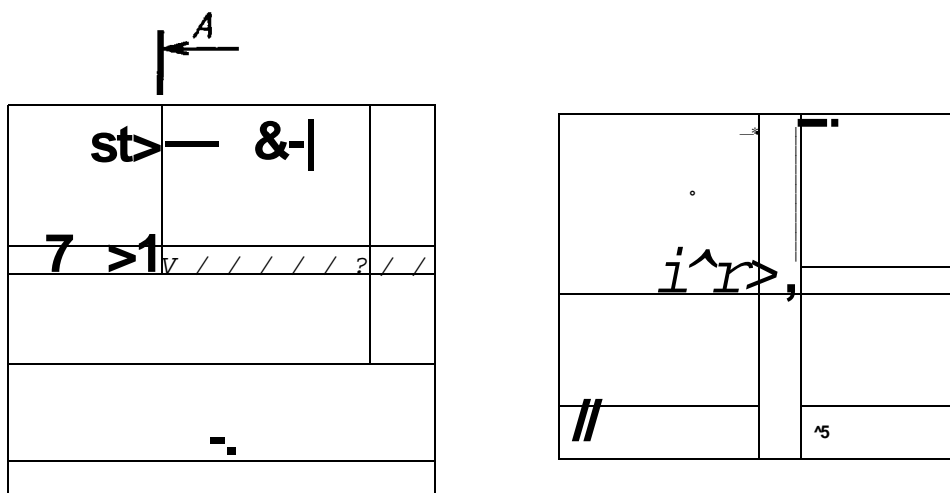


Черт. 10

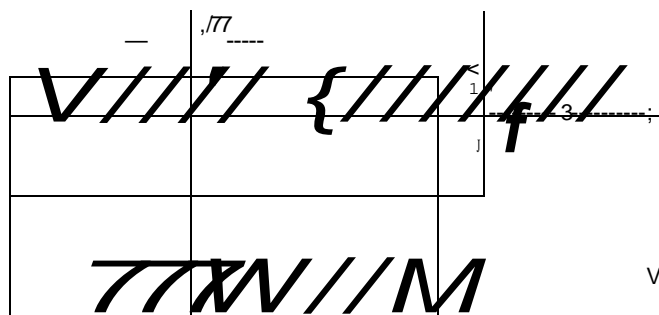




Черт. 11



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1.7.3. ( .  
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8, 2)

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1.7.4. ( . 3, 4, 9, 10) ( . 5, 6,  
II, 12)

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1.7.5. ( . 14)

10  
1.7.6.

1.7.7. ( .  
, )

1.7.8. ,

%, : 3, 5, 7, 10, 15 ( $\pm 10\%$ );  
/, : 1,0; 2,0; 3,0; 5,0; 10,0; 25,0; 50,0; 100,0 ( $\pm 10\%$ );  
, : 1,5.

1. / , ;  
2. , 10% .

0,45+0,03; 0,75+0,03; 1,0+0,03; 1,45+0,05; 1,75+0,05; 2,30+0,05; 3,15+0,10; 4,0+0,10;  
5,70+0,10.

h/b 0,5 4,0.

2R, : 1,1; 1,6; 2,0; 2,5; 3,0; 3,6; 4,4; 5,1; 6,2.

0,25 \ 0,5 ; 0,75 ,

:  
0,5; 1,0; 1,5; 2,0; 2,5; 3,0; 3,5; 4,0; 5,0; 10,0; 15,0 ( $\pm 10\%$ ).  
0,25 ; 0,5 ; 0,75 ,

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(1.7.9).

1.7.9.

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3.6; 3.7. ( , . 1).

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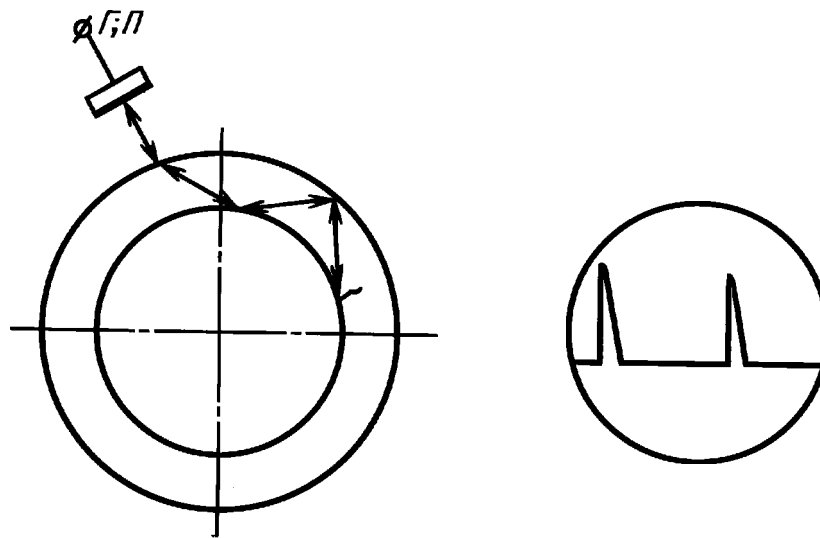
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. 7—12);



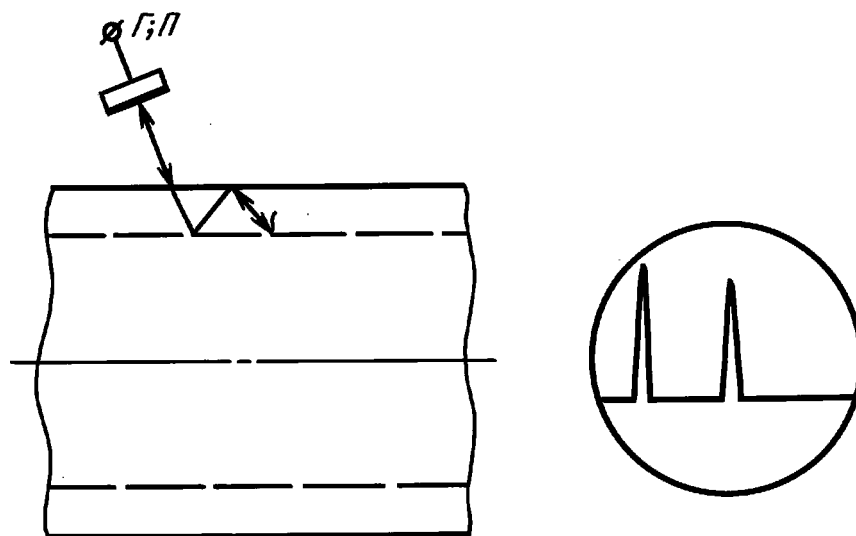
- ( .1—3) ( .4—9) -  
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 ( .10—12). ( .13)  
 - ( .14—16) -



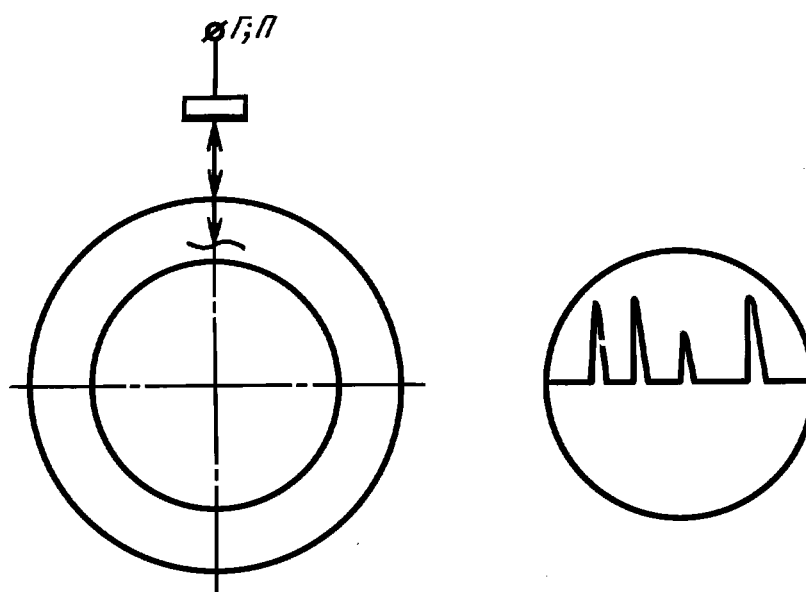
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. 1—16: —

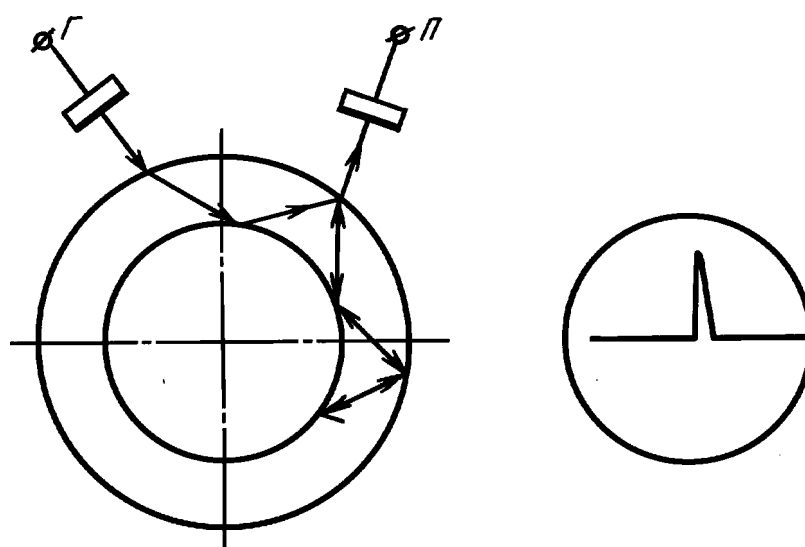
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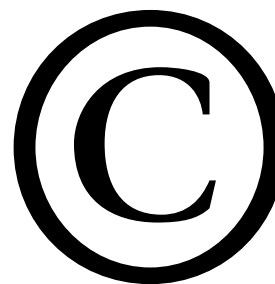
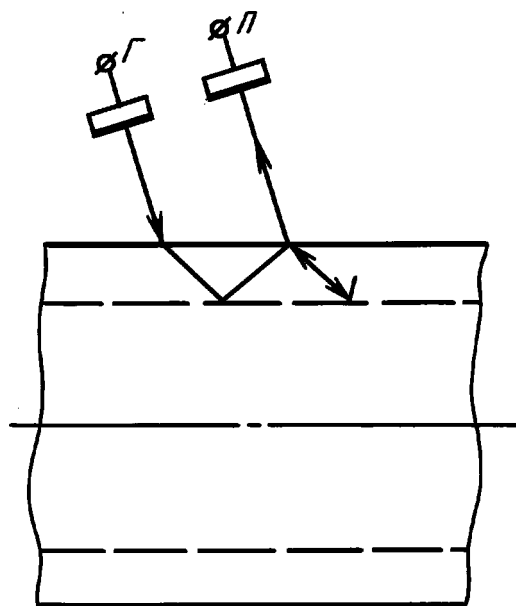
Черт. 2



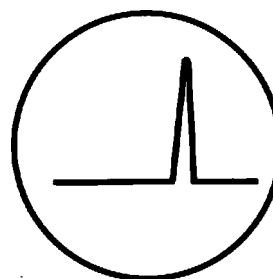
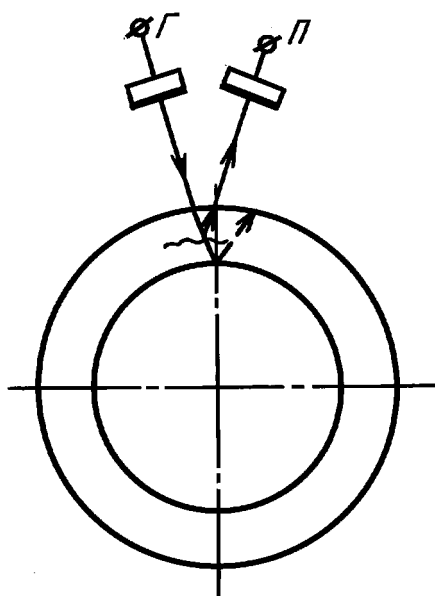
Черт. 3



Черт. 4

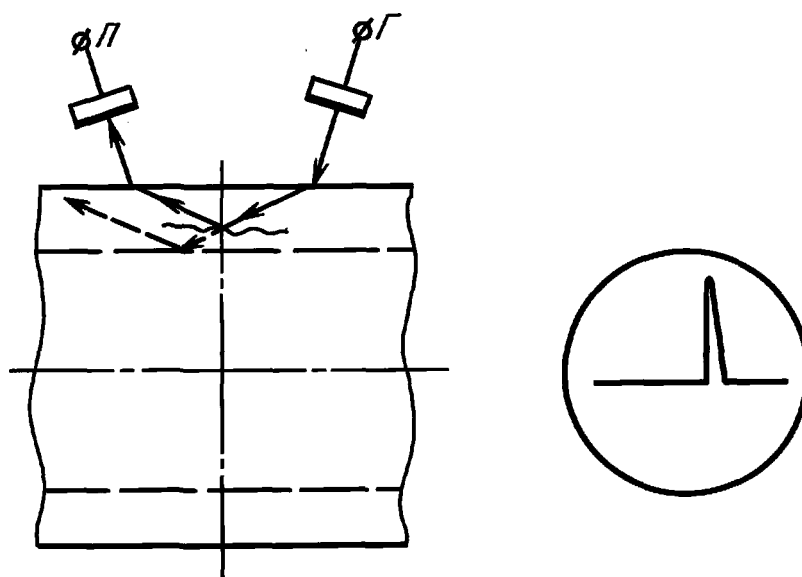


Черт. 5

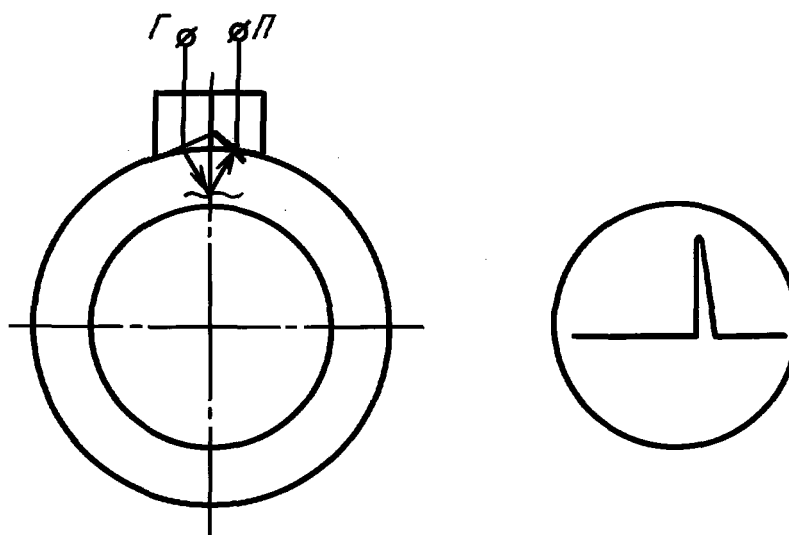


Черт. 6

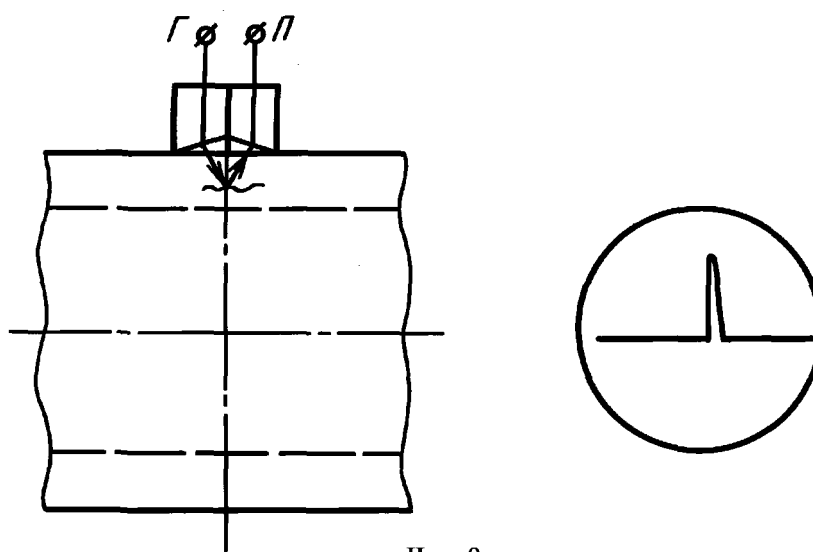




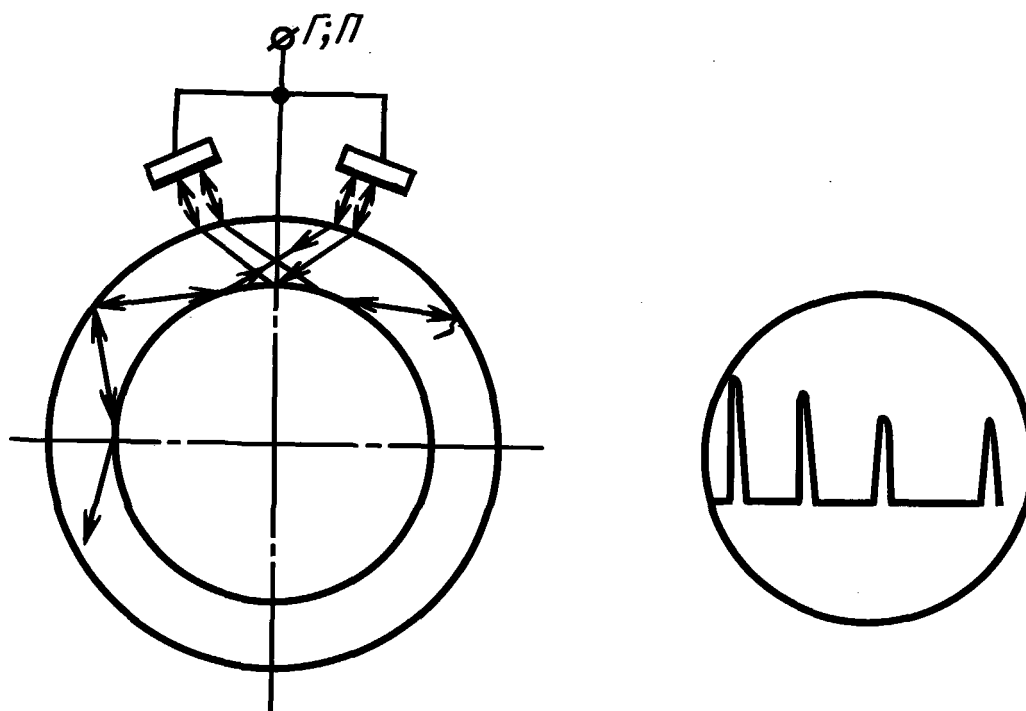
Черт. 7



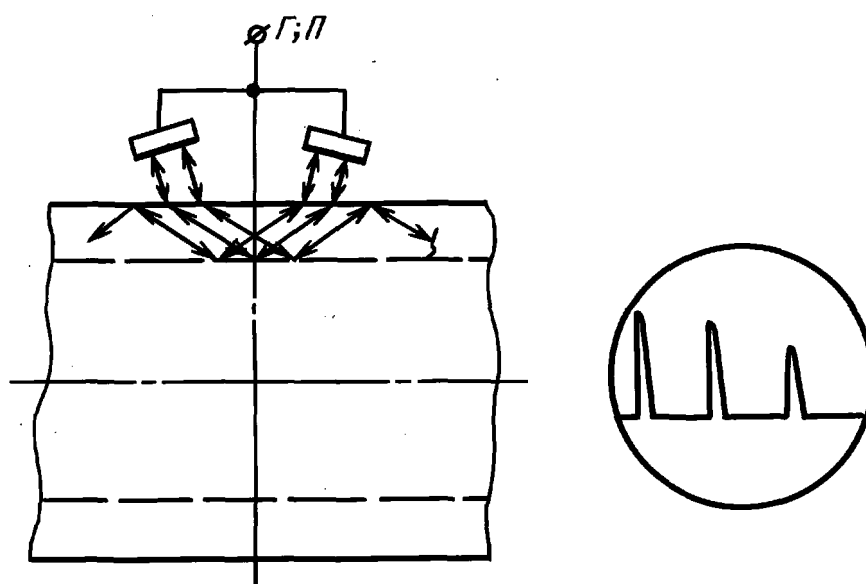
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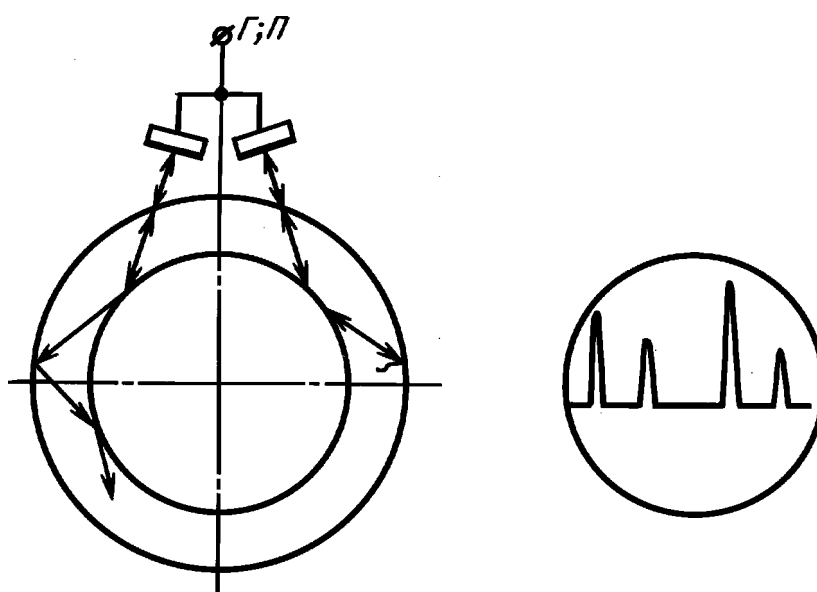
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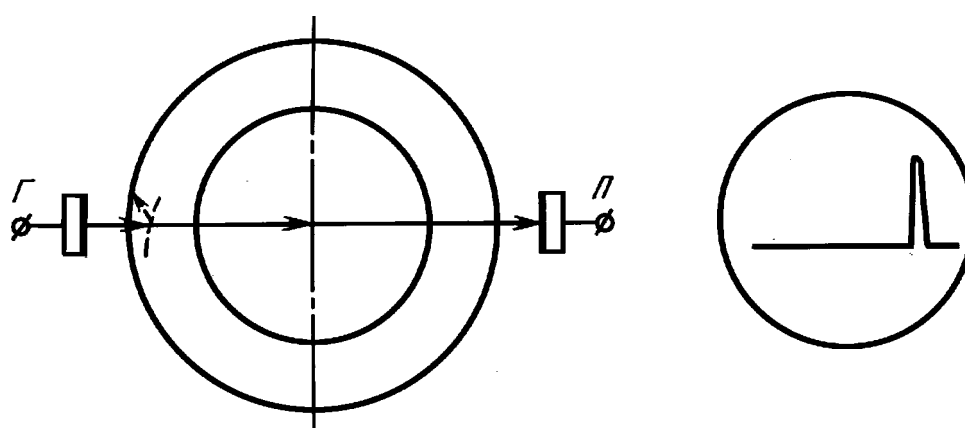
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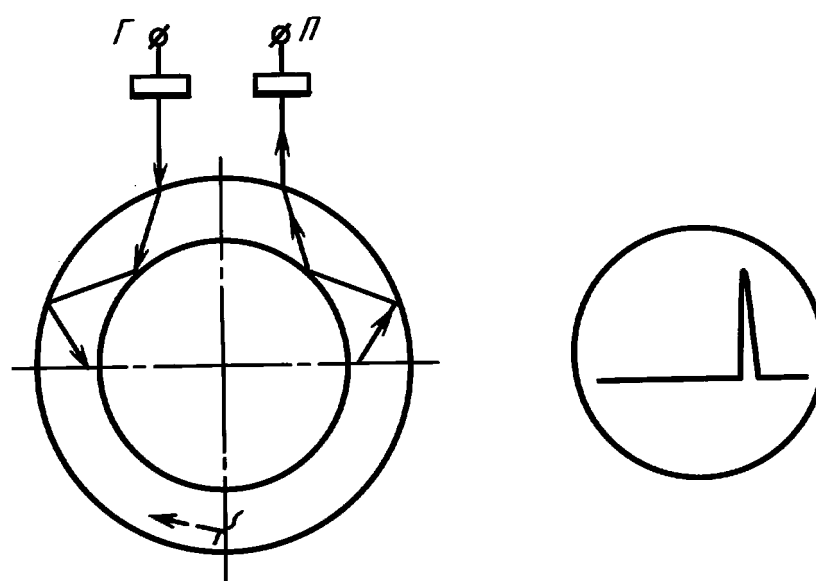
Черт. 11



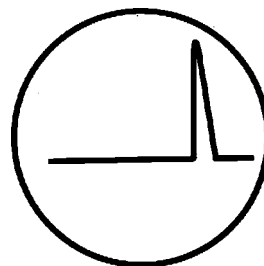
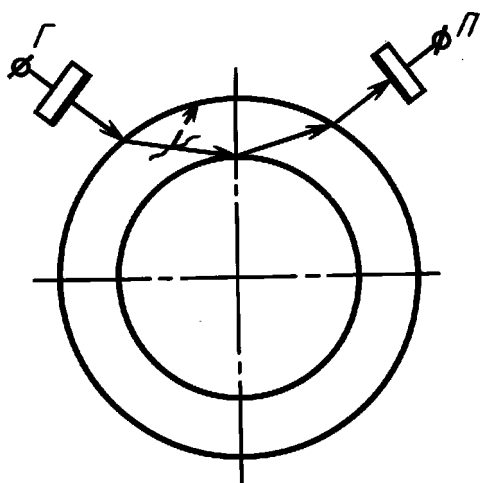
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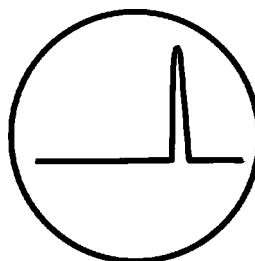
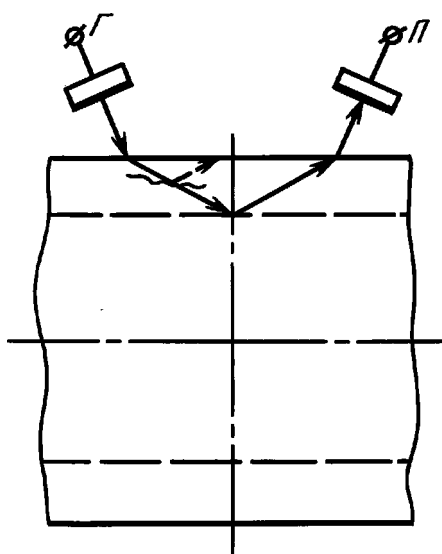
Черт. 13



Черт. 14



Черт. 15



Черт. 16

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3. 17410-72

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2.3  
1.5, 1.7.3

5. 4—93 -  
( 4—94)

6. ( 2010 .) 1, 2, 1984 ., 1988 .  
( 9-84, 10-88)