



25142—82
(1156—78)

РАЗРАБОТАН Государственным комитетом СССР по стандартам

ИСПОЛНИТЕЛИ

В. С. Лукьянов (руководитель темы); Н. А. Табачникова

ВНЕСЕН Государственным комитетом СССР по стандартам

венного комитета СССР по стандартам от 18 февраля 1982 г.

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Surface roughness.
Terms and definitions.

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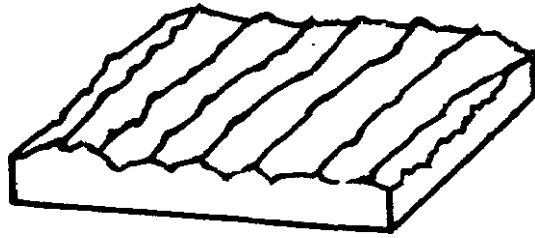
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1. ,

1.1.

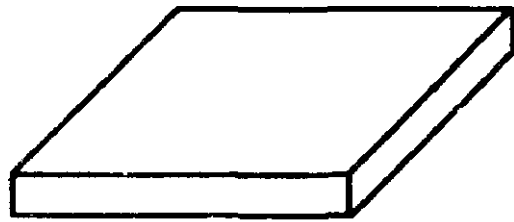
- (.1)



.1

3,2.

-) (.2) (-



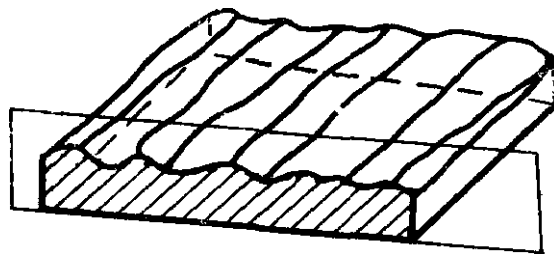
Черт. 2

1.3.

) (- () -
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1.4.

(.3) ,

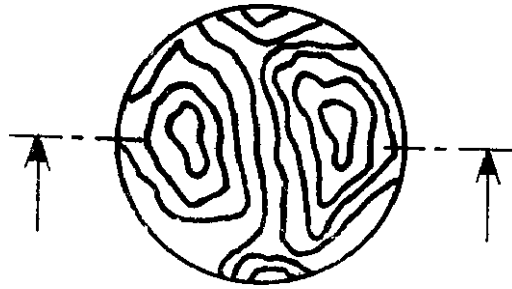


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1.5.	, (.4)
	.4
1.6.	, - (.5) -
	.5
1,7.	- , - (.) -
	.6

1.8.

(.7)

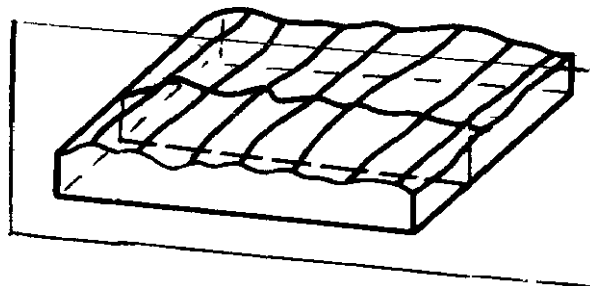


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1.9.

1.10.

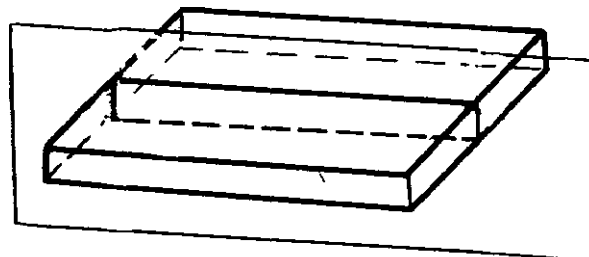
(.8)



.8

1.11.

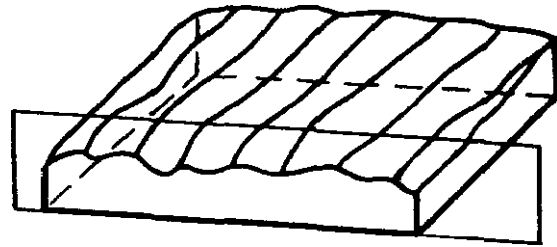
(.9)



Черт. 9

1.12.

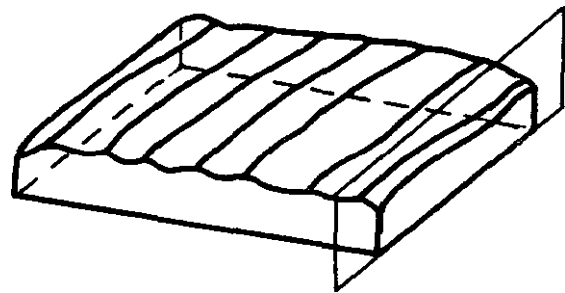
(. 10)



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1.13.

(. 1)



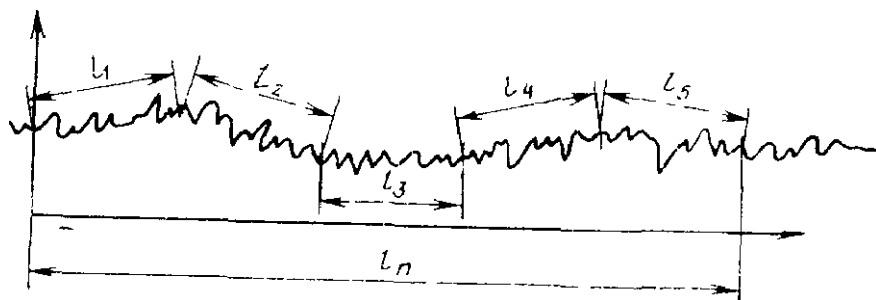
Черт. 11

1.14.

1.15.

1.16.

(. 12)



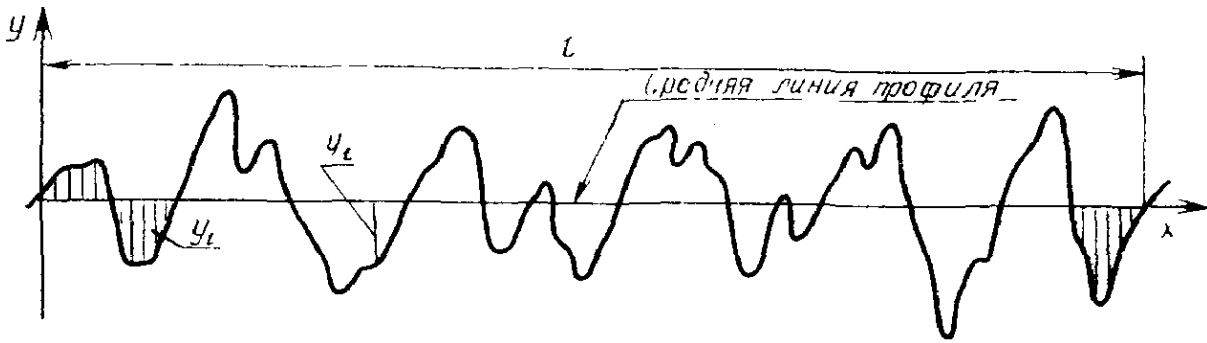
. 12

1.17.

L

1.18.

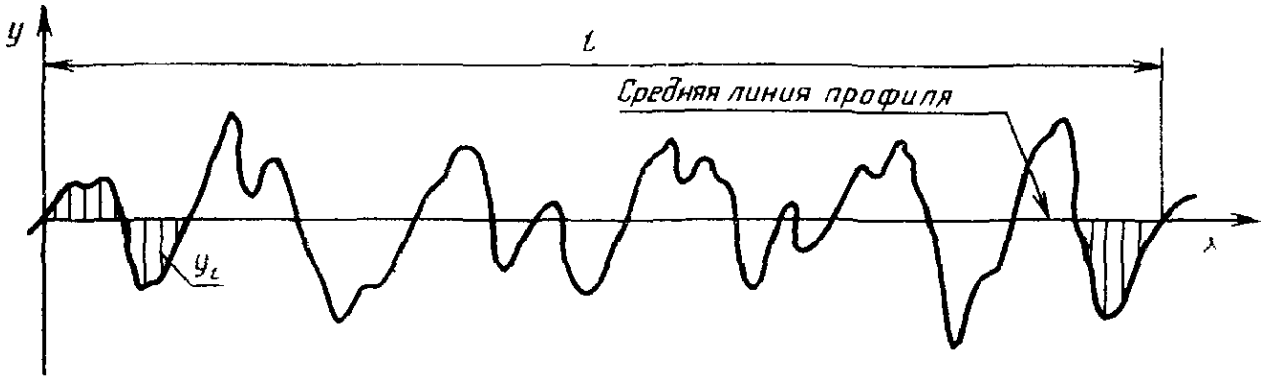
(. 13)



Черт. 13

1 9.

(. 14)



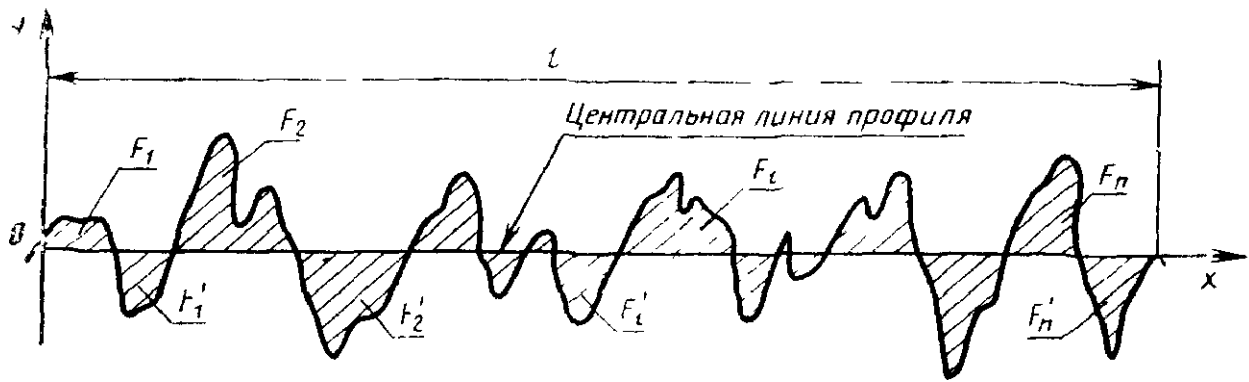
Черт. 14

1.20.

(. 15)

Термин

Определение

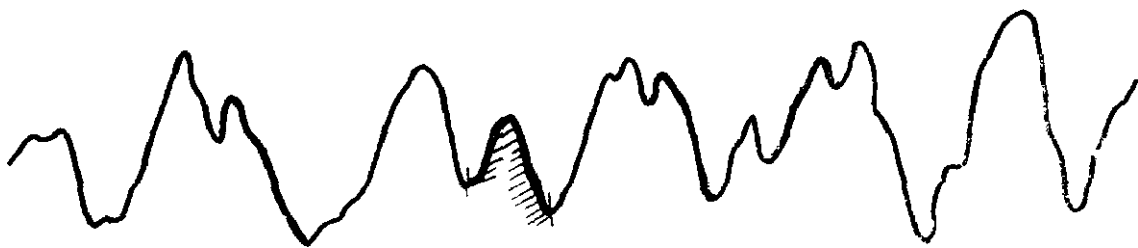


. 15

1.21.

1.22.

(. 16)



. 16

1.23.

(. 17)

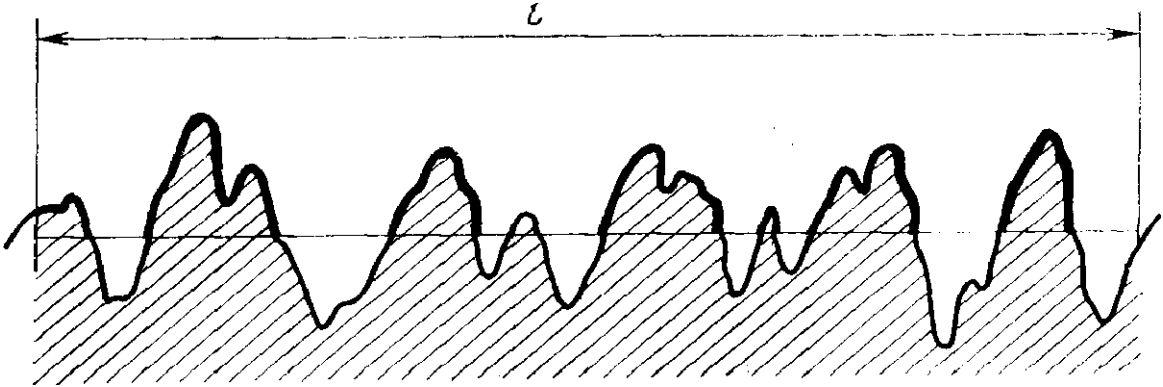


Черт. 17

1.24.

1.25.

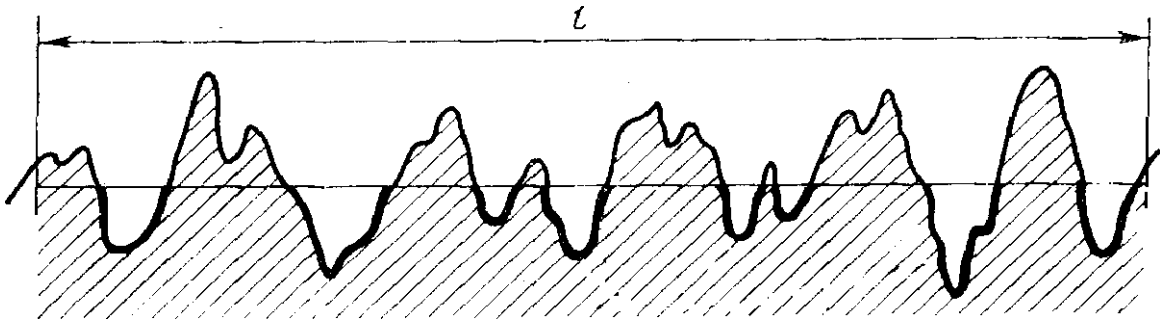
(.18)



.18

1.26.

(.19)



.19

1.27.

1.28.

1.29.

1.30.

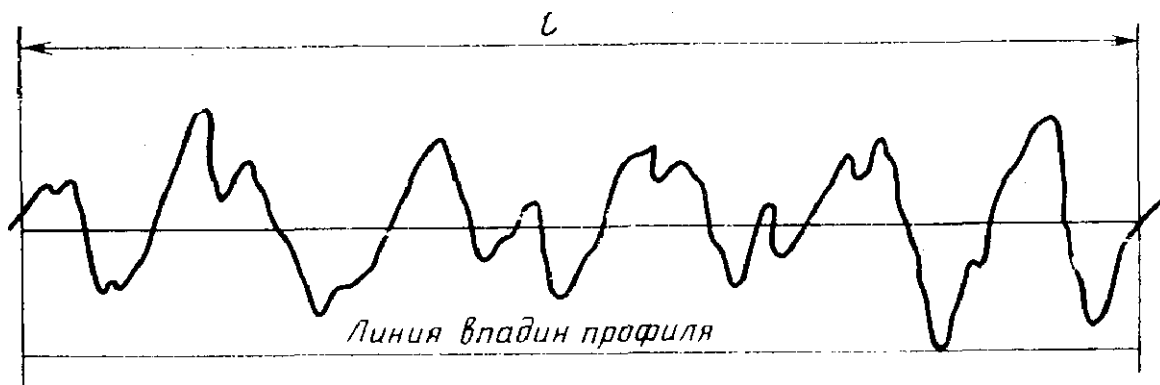
(. 20)



Черт. 20

1.31.

(. 21)



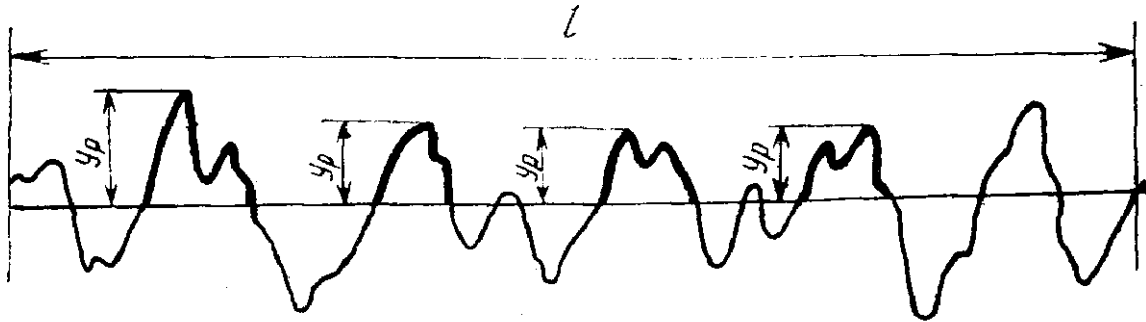
Черт. 21

1.32.

2.

2.1.

(. 22)

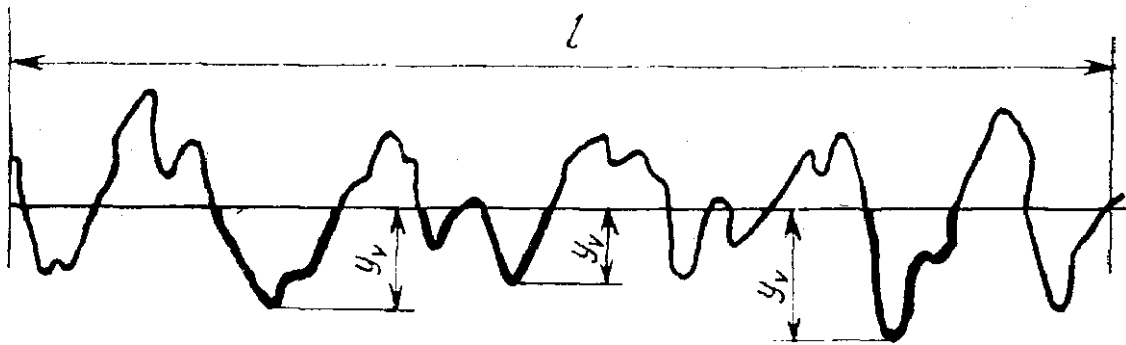


Черт. 22

2.2,

y_v

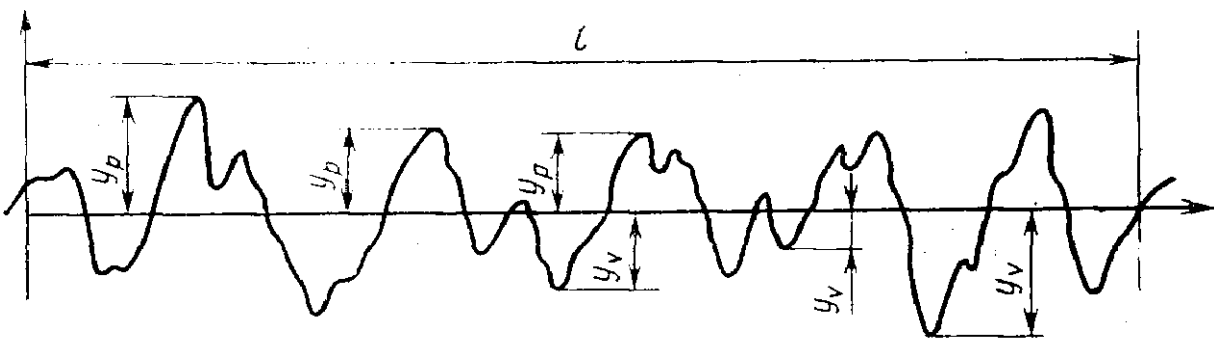
(. 23)



Черт. 23

2.3.

(. 24)



Черт. 24

2.4,

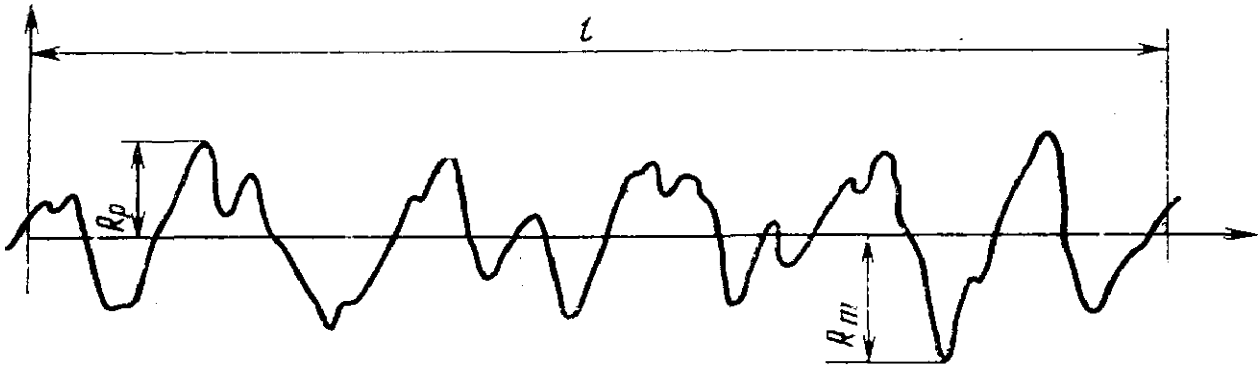
R_p

(. 25)

2.5,

R_v

(.25)

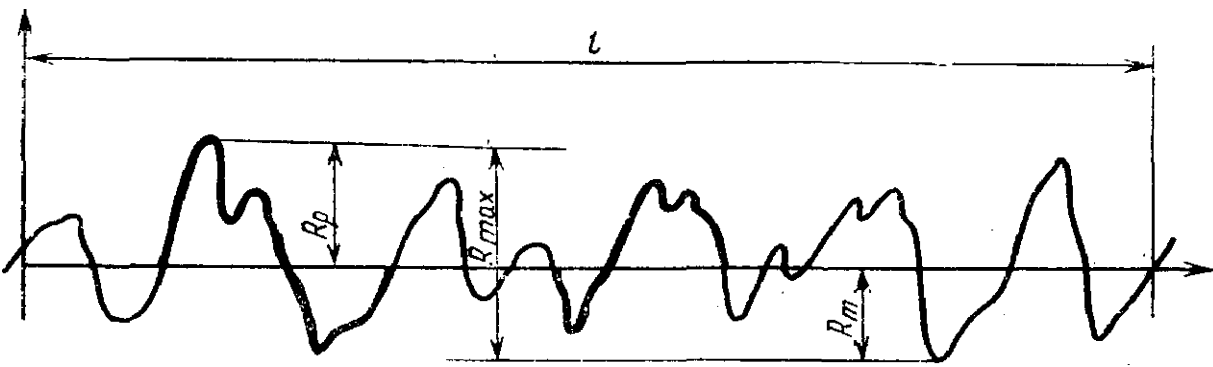


Черт. 25

2.6.

R

(.26)



Черт. 26

2.7.

R_z

(.2*7))

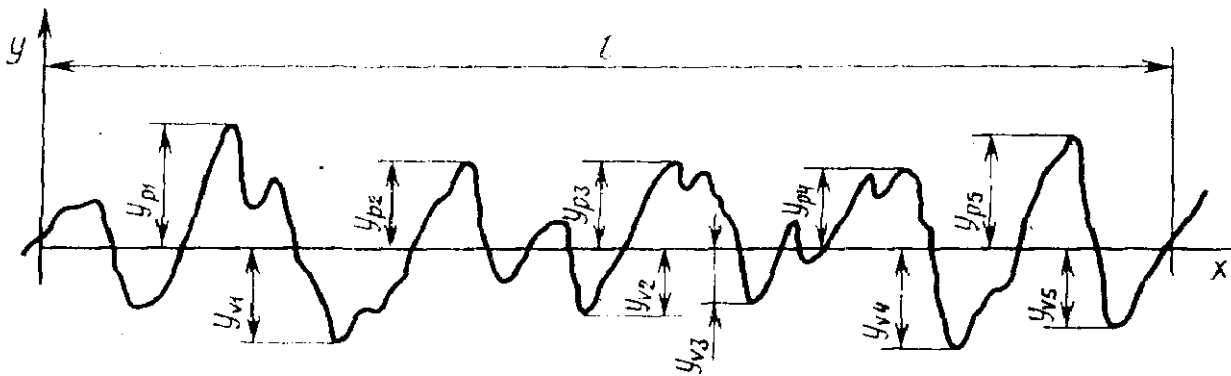
с ly_pil+ 2 | „ |

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p_i —
 $y_v i$ —

i-ro
i-

Термин	Определение
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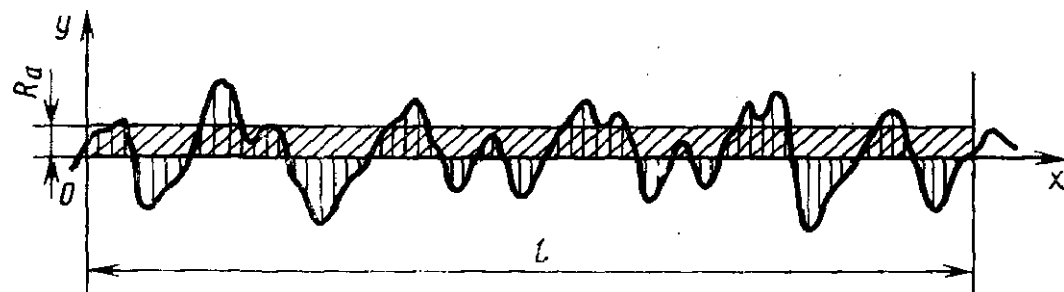
. 27

2.8.

R_a (. 28)

$$R_a = \int_0^l |y(x)| dx$$

$$R_a = \int_0^l 2 |y_t| dx$$



. 28

2.9.

R_q

$$R_q = \sqrt{\frac{1}{l} \int_0^l y^2(x) dx}$$

2.10.

$$= \frac{1}{k} \frac{1}{t} \sum_{j=1}^k R_{y_j}^2$$

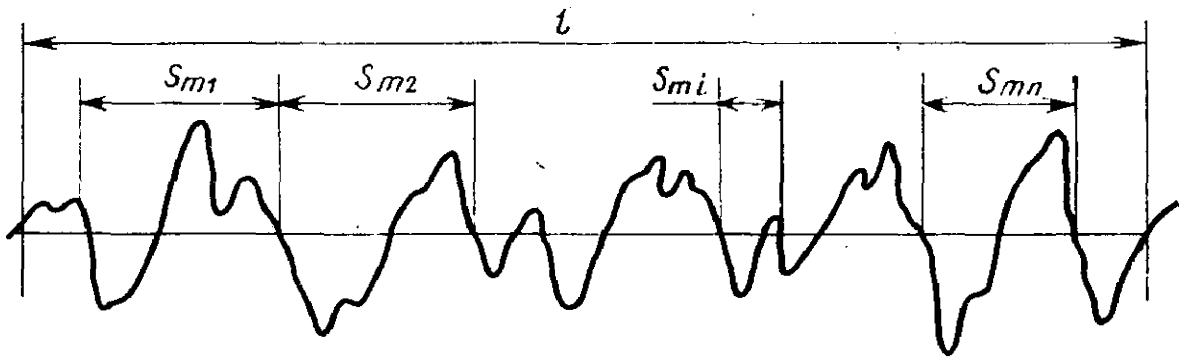
R_j

;

3.

3.1.

(. 29)



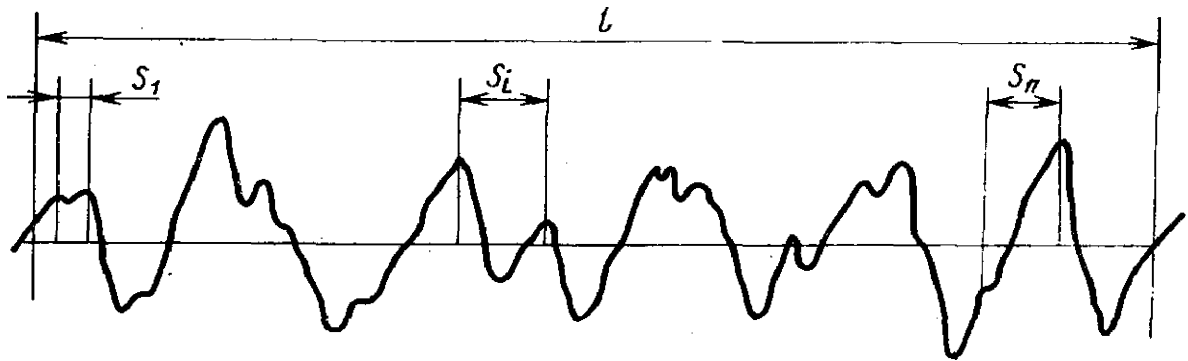
Черт. 29

3.2.

S_m

3.3.

(. 30)



. 30

3.4.

S

3.5.

%q

2 Rq_ q Rq q

3.6.

Ra

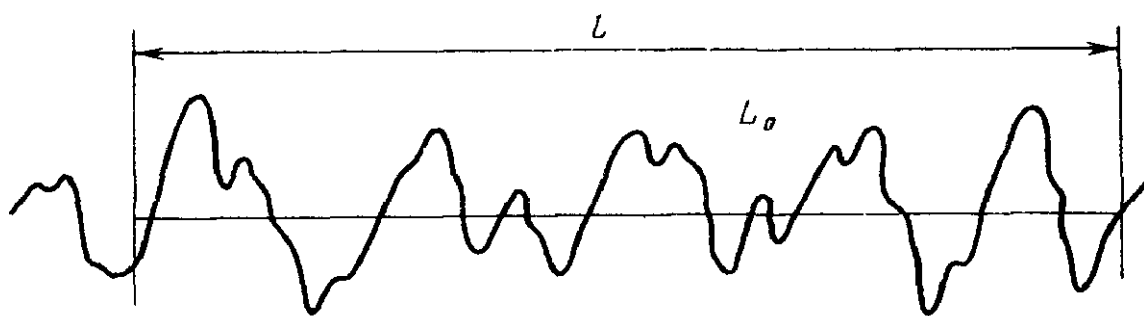
3.7.

L_0

(. 31)

R^a

, =2



Черт. 3I

3.8.

1

L_0

l

$$l_0 = \frac{L_0}{l}$$

3.9.

D

$$D = \overline{S_m}$$

4.

4.1.

4.2.

$$\Delta q = \sqrt{\frac{1}{l} \int_0^l \left(\frac{dy}{dx} \right)^2 dx}$$

или

$$\Delta q = \sqrt{\frac{1}{n} \sum_{i=1}^n \left(\frac{\Delta y}{\Delta x} \right)_i^2}$$

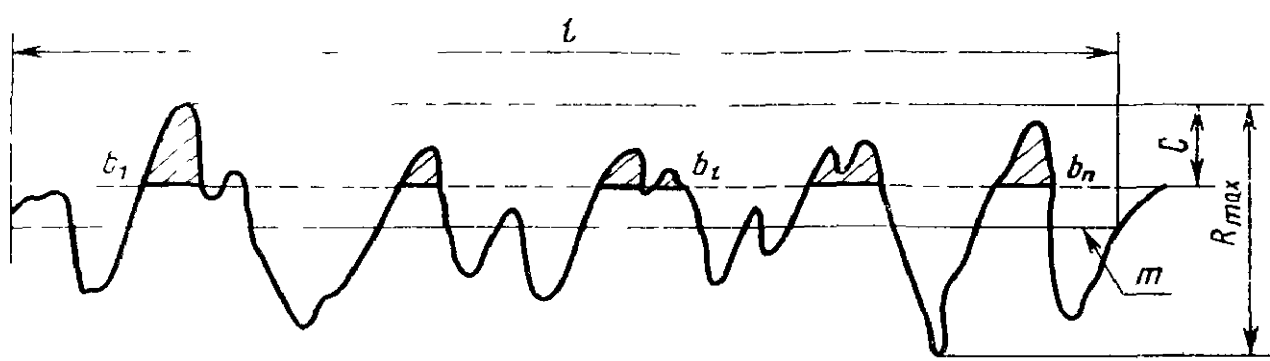
4.3.

$$Aa = -rJ \int_{dx}^{1*} dx$$

4.4.

$$= -D \int_{i=1}^1$$

(. 32)



Черт. 32

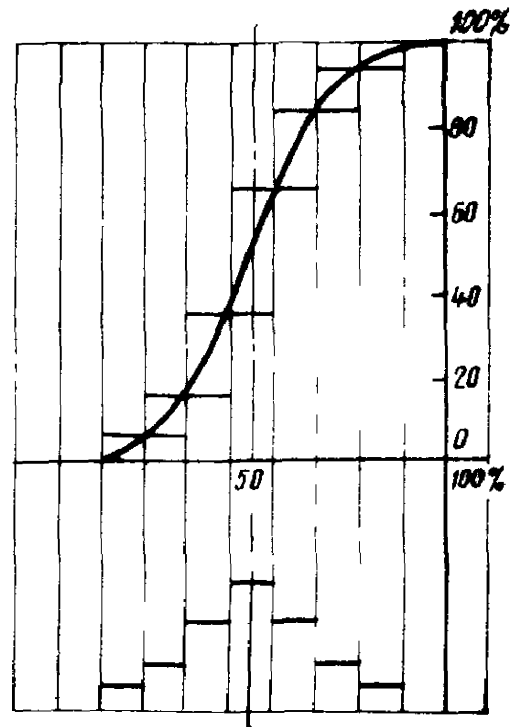
4.5.

i_p

$$t_p = \frac{\eta_p}{I}$$

4.6,

(. 33)



Черт. 33

1 6.
 1.3
 1.26
 1.25
 2.1
 2.4
 2.3
 2.7
 2.2
 2.5
 1.17
 3.7
 1.7
 1.8
 1.5
 1.31
 1.30
 1.23
 1.24
 1.22
 4.1
 2.6
 1.28
 1.27
 1.2
 1.11
 1.4
 4.4
 1.18
 3.8
 4.5
 4.6
 1. .
 3.9
 1.12
 1.13
 1.9
 1.1
 1.10.
 1.21
 1.15
 2.8
 2.10
 2.9
 3.6
 1.19
 3.5
 4.3
 4.2
 3.4
 3.2
 1.32
 1.20

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R_p
 R_z
 y_v
 R_v
 L_q

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D

R_a

R_q

%

S

3.3
3.1
1.29
1.16

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- 2.8. Arithmetical mean deviation of the profile Ra
- 4.3. Arithmetical mean slope of the profile
- 2.10. Average value of the surface roughness parameter
- 3.6. Average wavelength of the profile
- 1.20. Centre line of the profile
- 1.8. Contour picture of the surface
- 4.5. Curve of the profile bearing length
- 2.5. Depth of maximum profile valley
- 3.7. Developed profile length
- 1.16. Equidistant section
- 1.17. Evaluation length
- 2.4. Height of maximum profile peak
- 1.24. Local irregularity
- 1.31. Line of profile valley
- 1.30. Line of profile peaks
- i*.23. Local valley of profile
- 1.22. Local peak of profile
- 1.13. Longitudinal profile
- 2.6. Maximum height of the profile.
- 1.21. Mean line system
- 1.19. Mean line of the profile
- 3.4. Mean spacing of local peaks of the profile
- 3.2. Mean spacing of the profile irregularities
- 1.2. Nominal surface
- 1.11. Nominal profile
- 1.4. Normal section
- 1.5. Oblique section
- 4.4. Profile bearing length ratio
- 4.3. Profile bearing length
- 1.18. Profile departure
- 1.27. Profile irregularity
- 2.3. Profile irregularity height
- 3.8. Profile length ratio
- 1.25. Profile peak
- 3.9. Profile peak density
- 2.1. Profile peak height
- 1.32. Profile section level
- 1.26. Profile valley
- 2.2. Profile valley depth
- 1.15. Random profile
- 1.10. Real profile
- 1.1. Real surface
- 1.3. Reference line
- 2.9. Root-mean-square deviation of the profile
- 3.5. Root-mean-square wavelength
- 4.2. Root-mean-square slope of the profile
- 1.16. Sampling length
- 4.1. Slope of the profile
- 3.3. Spacing of local peaks of the profile

- 3 1 Spacing of the profile irregularities
 - 1 28 Surface lay
 - 1 29 Surface roughness
 - 1 7 Tangential section
- 2 7 Ten point height of irregularities
 - 1 12 Transverse profile

- 4 5 Courbe du tau\ de longueur portante
 - 1 4 Coupe nomuiale
 - 1 5 Couple oblique
 - 1 26 Creux du profil
 - 1 23 Creux local du profil
 - 1 28 Direction des irregularites
- 3 9. Densite des saillies du profil
 - 1 18 Ecart du profil
 - 2 8 Ecart moyen arithmetique du profil
 - 2 9 Ecart moyen quadratique du profil
 - 2 4 Hauteur de la saillie maximale
 - 2 1 Hauteur d'une sailhe du profil
 - 2 3 Hauteur d'une irregularite du profil
 - 2 7 Hauteur des irregularites sur dix points
 - 2 6 Hauteur maximale du profil
 - 1 8 Image contour d'une surface
 - 1 24 Irregularite locale
 - 1 27 Irregularite du profit
 - 1 20 Ligne centrale du profil
 - 1 3 Ligne de refererce
 - 131 Ligne des creux du profil
 - 1 30 Ligne des saillies du profil
 - 1 19 Ligne moyenne du profil
 - 1 16 Longueur de base
 - 1 17 Longueur devaluation
 - 3 7 Longueur developpee du profil
 - 4 3 Longueur portante du profil
 - 3 6 Longueur d'onde moyenne du profit
 - 3 5 Longueur d'onde quadratique moyenne
 - 1 32 Niveau de coupe du profil
 - 3 1 Pas des irregularites du profil
 - 3 2 Pas moven des irregularites du profil
 - 3 4 Pas moyen des saillies locales de profit
 - 4 3 Pente arithmetique moyenne du profil
 - 4 1 Pente du profil!
 - 4 2 Pente quadratique moyenne du profil
 - 1 15 Profil aleatoire
 - 1 13 Profil longitudinal
 - 1 11 Profil nominal
 - 1 14 Profil periodiquc
 - 1 10 Profil reel
 - 1 12 Profil transversal
 - 2 5 Profondeur des creux maximales
 - 2 2 Profondeur d'un creux du profit
 - 3 8 Rapport de longueur du profil
 - 1 29 Rugosite de surface
 - 1 25 Sailhe du profil

- 1.22. Saillie locale du profil
- 1.16. Section equidistante
- 1.7. Section tangentielle
- 1.2. Surface nominale
- 1.1. Surface réelle
- 1.21. Systeme de la ligne moyenne
- 4.4. Taux de longueur portante
- 2,10. Valeur moyenne du parametre de la rugosite de surface

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