



28899—91

(205-66)

Calculation of the effective parameters
of magnetic piece parts

28899—91
(205—66)

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2.1.

V_e

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1, 2 3;

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2.2.

$$1 = 25,4$$

2.3.

$$\sim 0,3927.$$

2.4.

2.5.

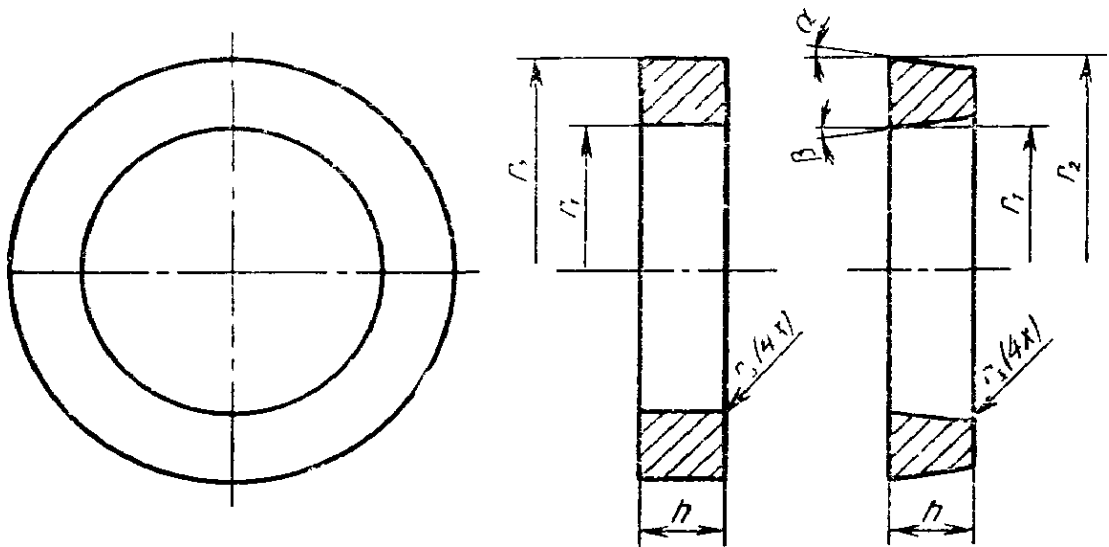
2.6.

2J.

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3 1.

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$$C_2 = \frac{1 - h_e \ln \frac{r_2}{r_1}}{2\pi \left(\frac{1}{r_1} - \frac{1}{r_2} \right) h_e^2 \ln^3 \frac{r_2}{r_1}}$$

1)

2) $h_e = h.$

3

$h^{hil} - , \quad 0,8584/- \quad -)'$

3)

$h_e = h \left(\frac{ft(tga4 - tgft)}{2 \bullet} \right);$

4)

3

$= (1 - / - / ,).$

3.2.

(. . 2).

%

$h = l_2 + t_r$

$= /; + /; = -$

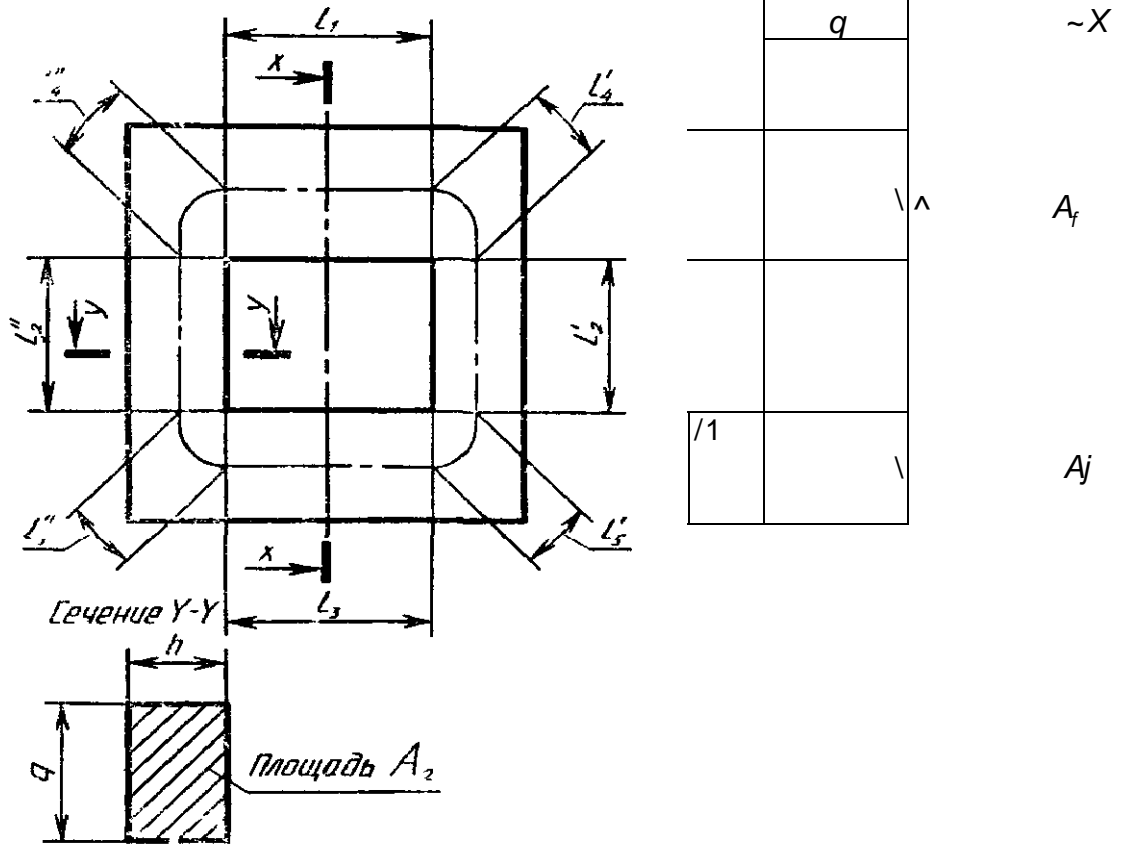
$/^* = /; + /; = -J - (s + A).$

U h

$A_4 = \quad 2 \quad 1$

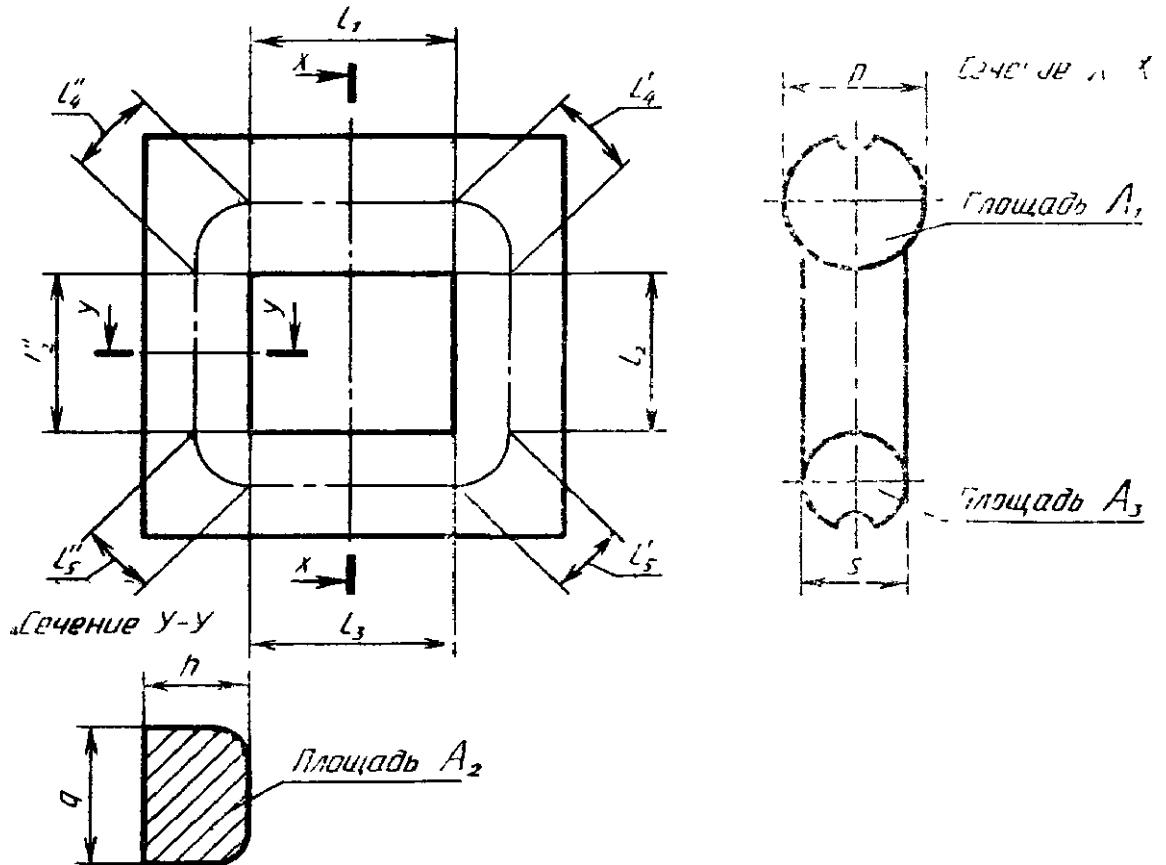
$A_5 = \quad 2 \quad ?$

At $C_2 = \sum_1^5 \frac{l_i}{A_i^2} .$



Черт. 2

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2

l_2

2

4-;/+;/- - (l>+);

<5+ >-

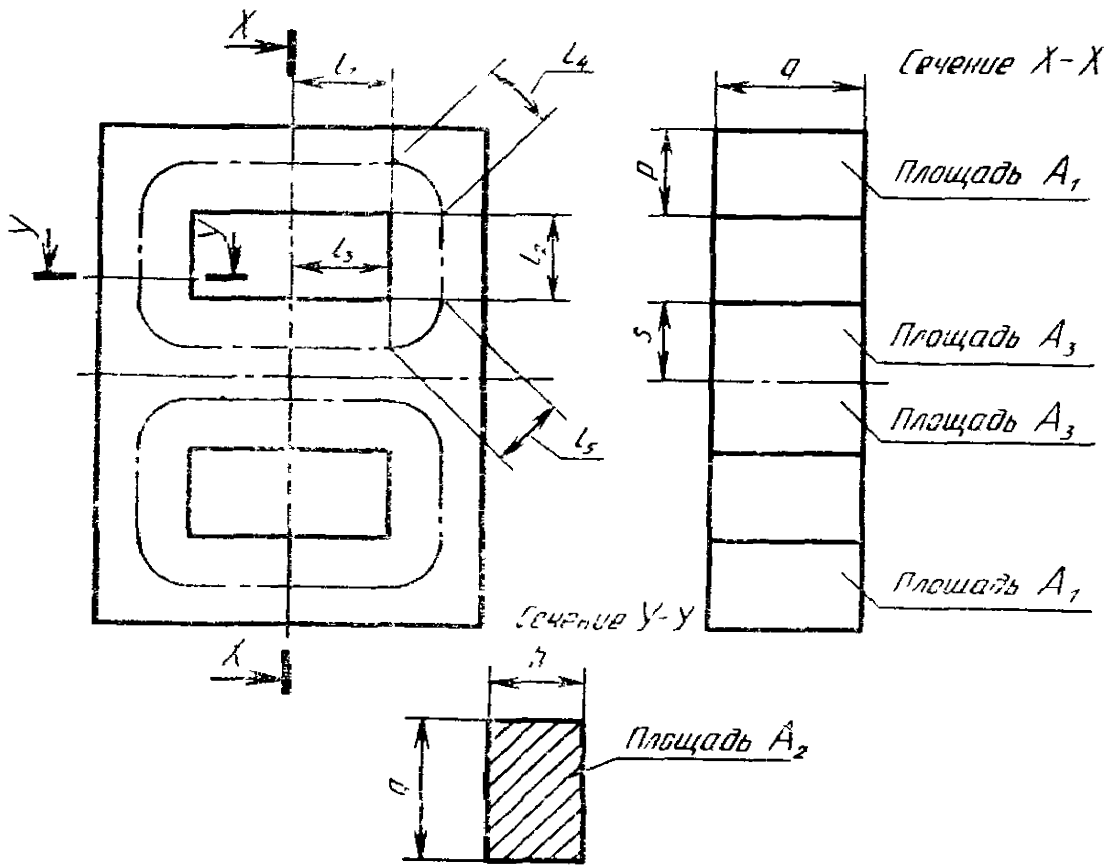
l_5

$$4 = \frac{l_1 + l_2}{2} \quad 1 \quad \frac{l_2 + l_3}{2} \quad 2 \quad 1$$

$$= S \cdot \frac{1}{2} \cdot \frac{l_1 + l_2}{2} \quad 5 \quad f, \quad 2 ?$$

3.4.

(. . 4).



Черт. 4

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1/4 — "g" 1 — -g- (s-l-h).

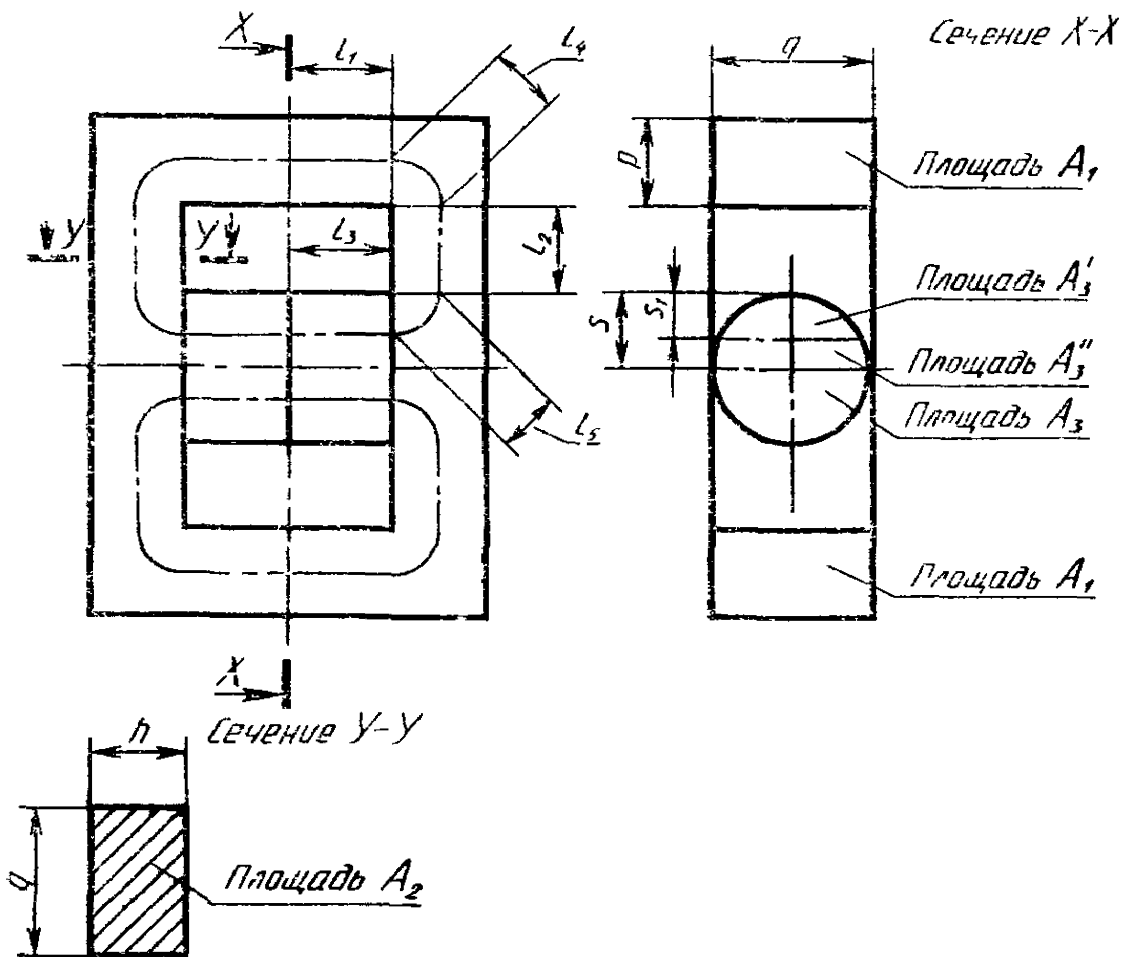
U 1\$:

$$= \frac{2 \cdot l_1}{2} = l_1$$

$$= 2 \cdot 7;$$

$$= \frac{5 \cdot h}{2 \cdot l_1}$$

3.5.
(.5)



.5

= +4-

:

= 1 \ Si=0,5959s.

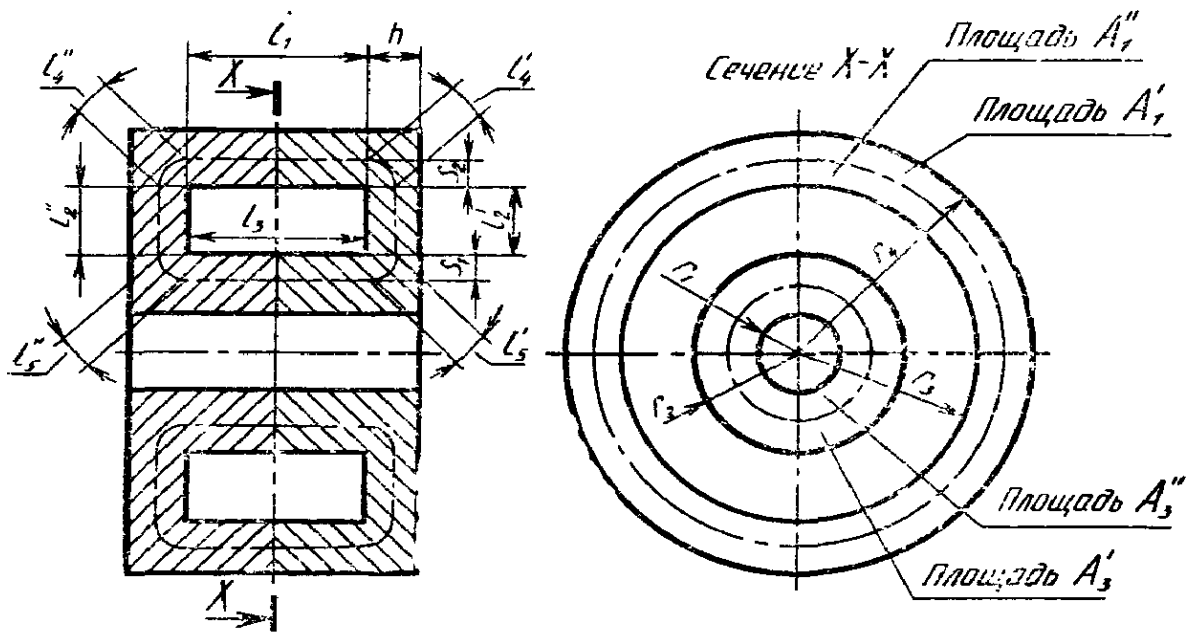
$$U \sim (\dots)^2; 1 =$$

$$\frac{1}{4} U \sim \frac{\sqrt{X''} h^2}{5 \sqrt{2+3}}$$

$$\sim \frac{1}{4} \sqrt{7} \sqrt{2} \dots$$

3.6.

(... .6)



Черт. 6

$$1 = ;+ ;$$

$$: [= 9 \{$$

$$\sim \sqrt{V}$$

$$8 = ;+ ;$$

$$: '3 = '3$$

$$A_i / 3)(4+3).$$

h_2 0,7330 ,
- - logj»7;

$$[2 \frac{1}{1-2} \frac{1}{**} \frac{-3-2}{32}]$$

$$3 = \langle (, - \wedge (. + .$$

$$\wedge(25_2+);$$

$$l_8 = l_1 + 1 = 4 - (2S_i + a).$$

$$l_4 \quad 1\$$$

$$4 = -J - (r_4 - r_1 + 2r_3 f t);$$

$$A_5 = \frac{\pi}{2} < | - * + 2 ,);$$

$$\sum_1^5 \frac{l_i}{A_i} ; \quad 2 = 2 \quad 1 \quad h$$

$$ng\{r_{A-3}\} \quad |$$

$$\frac{l_2 1}{2} \frac{1}{- \frac{Tig}{2} 3} ;$$

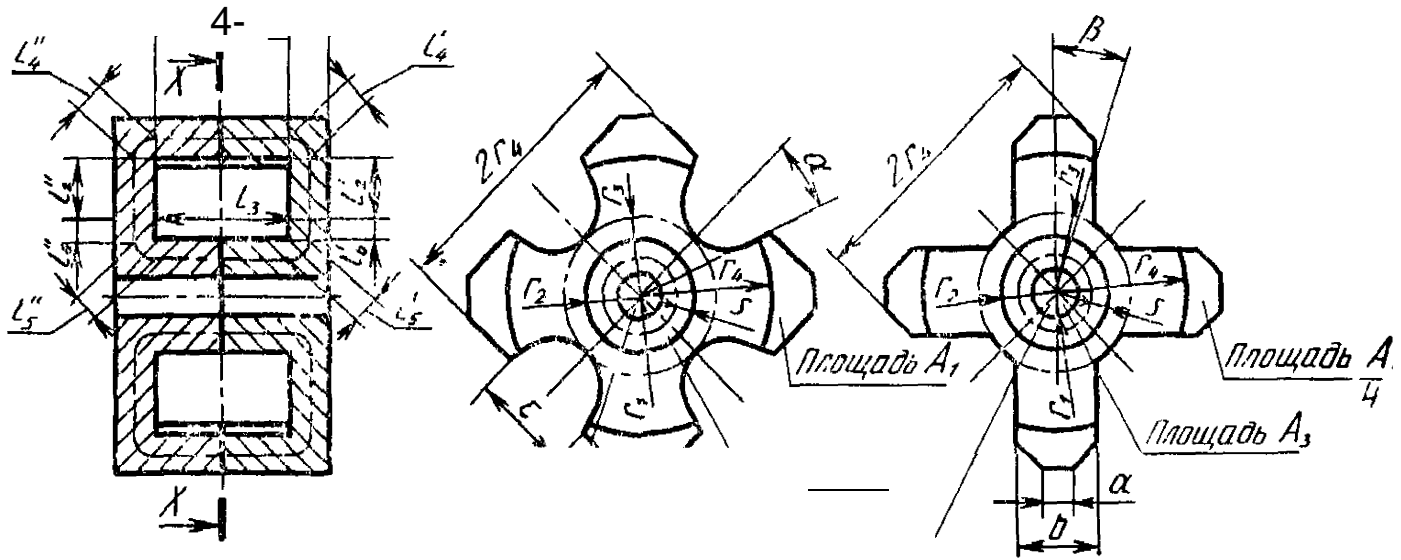
$$\frac{l_2}{A_2^2} \frac{1}{\left(1 - \frac{ng}{2\pi r_3}\right)^2} >$$

$$4 \quad 1 - \frac{ng}{}$$

g—
3.7.

(-) (. . 7)

X—X



$$» = ' + ' 3$$

: =

$$s = r_2 - \sqrt[2]{* 2}$$

=4

$$1 - \sqrt[4]{* 4 \lambda_{180} ' |}$$

a = arc s i n — ;

:

$$\wedge - - * - j J j -$$

X («'+**}).

$$p = \text{arc sin } \frac{\dots}{\dots} \cdot \&$$

, / : :

$$*L = \frac{45 - \dots}{1} \log \frac{2 \dots}{1} \frac{1}{2} \frac{1}{1}$$

:

$$l = l_2 + l_2 - 2(\dots) ,$$

$$A_a = 4b - h.$$

$$3 = \{ 1 \sim \backslash \} .$$

$$l_6 = l'_5 + l''_5 = \frac{\pi}{2} \left[\frac{h}{2} + r_2 - \sqrt{\frac{r_1^2}{2} - \frac{h^2}{2}} \right]$$

U_t

$$4 = 4 (\wedge - + Tt - / l - r_4 "YgQ_4^{45} -) ,$$

a=arc sin z_{\sim} ;

$$(+ \dots 4 1s) 1$$

p=arc sin

U,

$$- (| - rf) - t - itAr , .$$

$$/ = / ; - / ; = 2 (3 -) .$$

$$1^* \quad 0,733$$

- h

$$\frac{\wedge 6}{2} \frac{1}{2n^3/t^2} (1 \quad 1$$

$$\frac{6}{1} \frac{1}{6} \frac{1}{2} \frac{1}{2}$$

3.8.

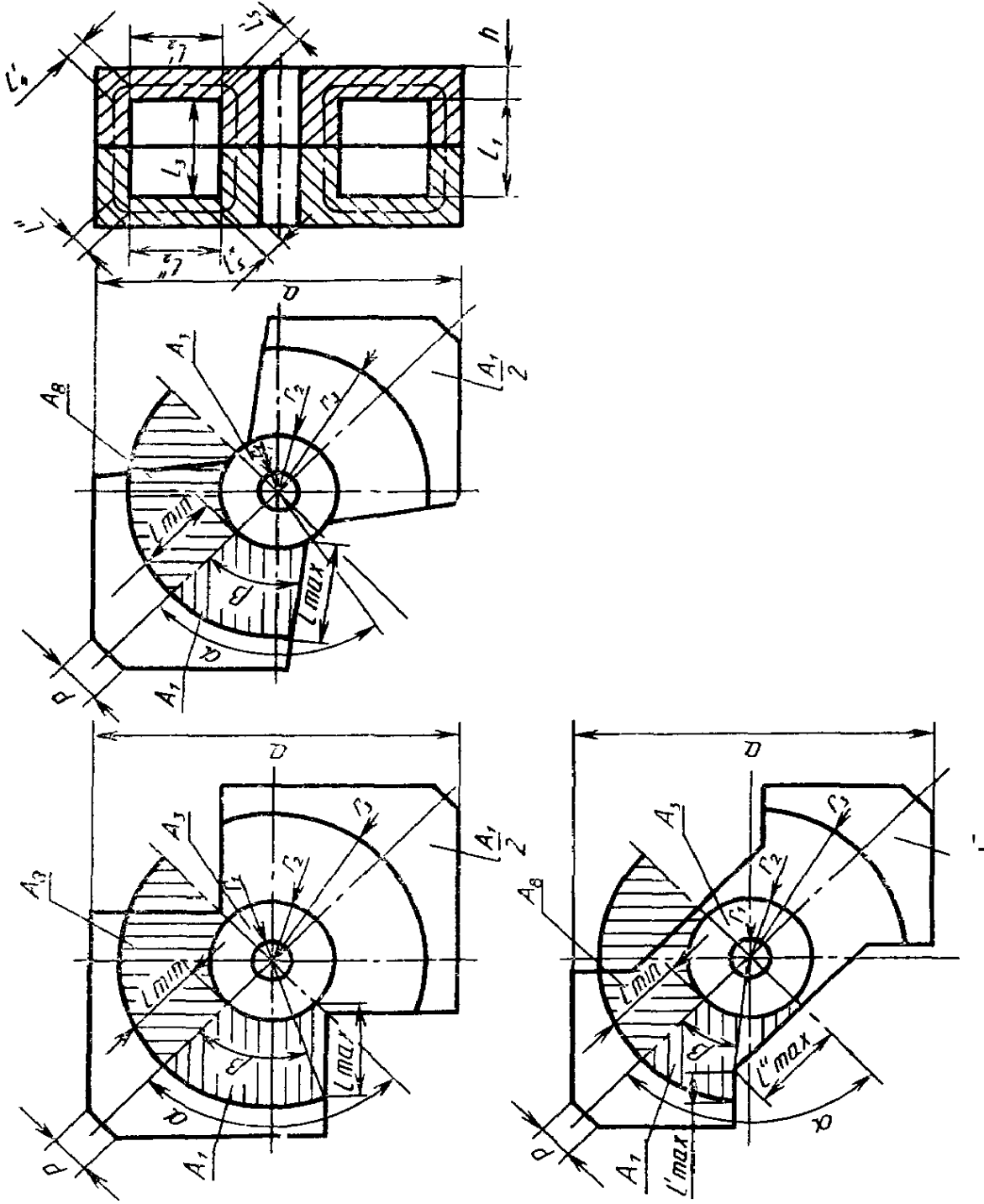
$$(-) (. . 8)$$

$$_1 = 4 - 2^{11+\wedge -45} - 1 - W - - 3'$$

l2'.

$$h^1 77$$

$$/ = \frac{\text{in}^{\text{Mniajt}}}{2X^{\text{mln}}}$$



$$\frac{12}{2} \frac{W_2}{2} \frac{1}{7} \frac{1}{8}$$

() .

$$= (\% - 1) .$$

$I_{4>} 1\$$

$$U = i'_4 + i''_4 = (h + 4'' \sim *);$$

$$4 - \sim 2 \sim \wedge \quad 1 + 2'1 \quad - \quad QQ \quad) \quad |$$

$$tb = t' + t'' = \wedge - (2r_2 + h - Y \quad 2r? + 2r\$);$$

$$A_5 = \frac{\pi}{2} (\wedge - / - + \quad \dots \quad \text{so}''; \quad h)$$

$5;$ 5 h

2 1 1 ; 1 $- 2$ 1

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 V_e —
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 V_e —

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— -<,u. +YH)H±

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$\wedge Hdl=Ni$
 $= J BdA$

$H_e J_e = Ni;$
 $= \setminus$

$Ph \sim f f dV pHd8$

$Pfi \sim fVe <\$HdB,$

$$L = N \int \dots = 1)$$

$$C_1 = \sum \frac{l^*}{A}, C_2 = \sum \frac{l}{*},$$

$$l_e = \frac{C_1^2}{C_2} \quad A_e = \frac{C_1}{C_2}, \quad V_e = l A = \frac{C_1^3}{C_2^2}$$

$$\widehat{H}_e = \frac{N_i}{l_e} \cdot 10^3, \quad \widehat{B}_e = 4 f A_e N, \quad \wedge \sim \frac{C_1}{\sum \frac{1}{\mu_r A}}$$

$$\widehat{B}_e = \frac{* 10^{**}}{(a A_e N)}$$

$$L = \frac{\mu_0 \cdot \mu_e \cdot N^2 \cdot A_e}{l_e} \cdot 10^{-3}, \quad P_h = \frac{\gamma_{\beta} \cdot \widehat{u}^3}{2\omega^2} \sqrt{\frac{\mu_0 \cdot \mu_e^3}{L^3 \cdot V_e} \cdot 10^9}.$$

$V_e.$

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