



60793-1-20—  
2012

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**IEC 60793-1-20:2001**  
**Optical fibres - Part 1-20:**  
**Measurement methods and test procedures - Fibre geometry**  
**(IDT)**



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 (1 60793-1-20:2001 «Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry»).

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Optical fibres. Part 1-20. Measurement methods and test procedures. Fibre geometry

- 2013—07—01

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61745 (1998)

of optical fibre geometry test sets)

(IEC 61745, End-face image analysis procedure for the calibration

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4.1 (reference surface):

4.2 (core concentricity error):

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4.3

multimode fibre)

A (core diameter of category A

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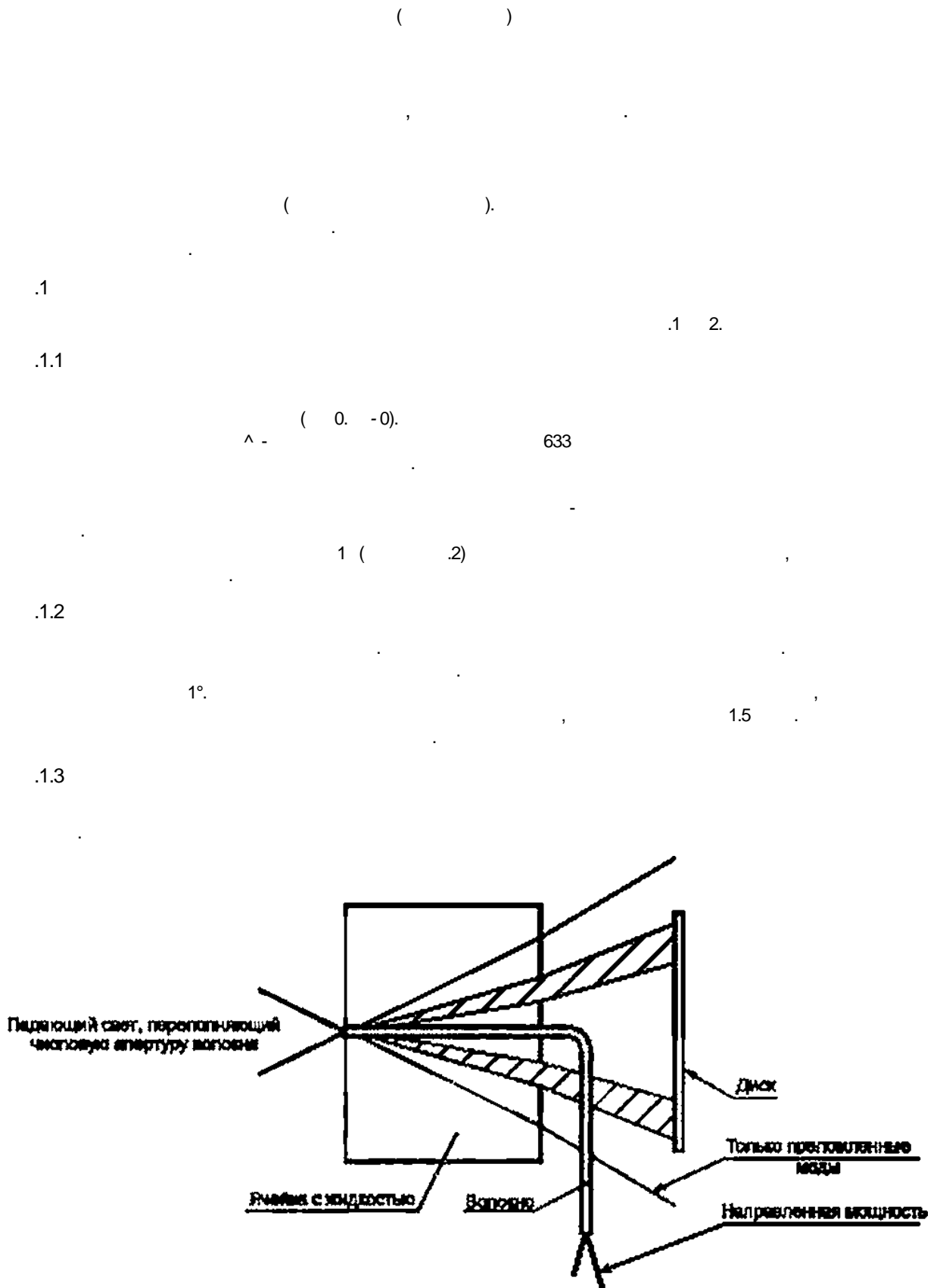
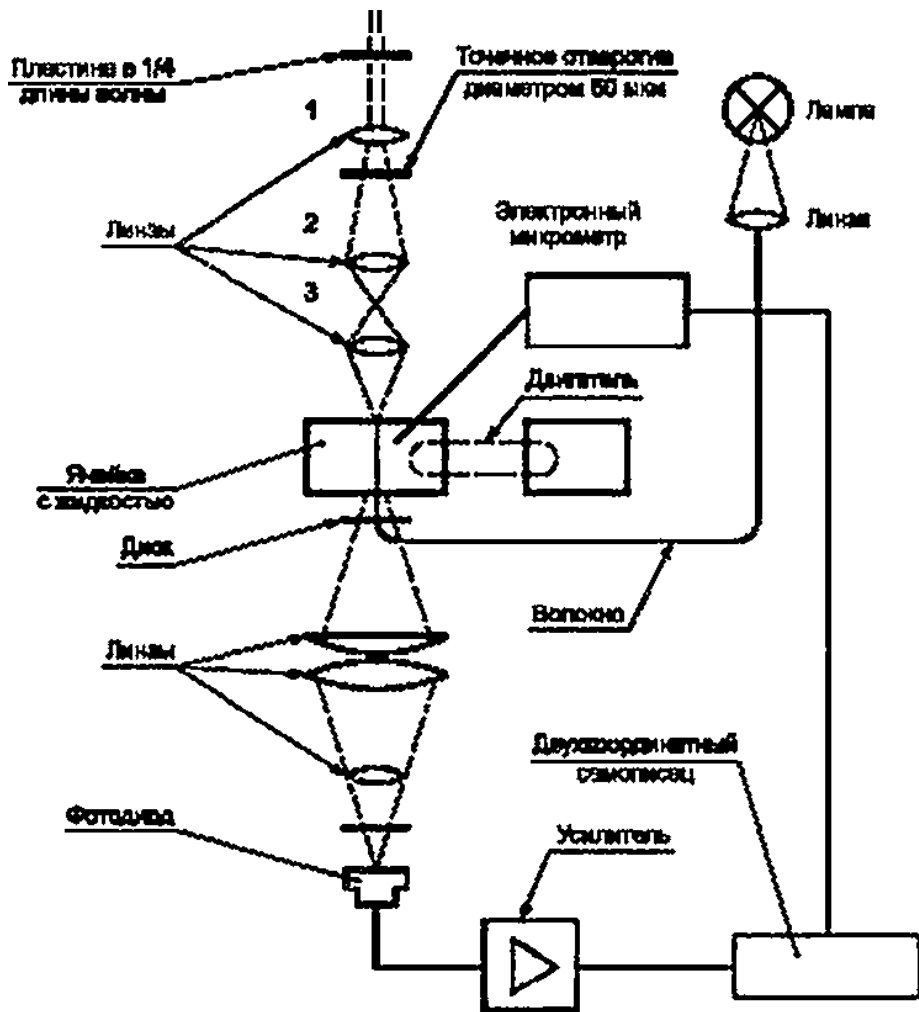


Рисунок А.1 – Метод преломления в ближнем поле. Принципиальная схема

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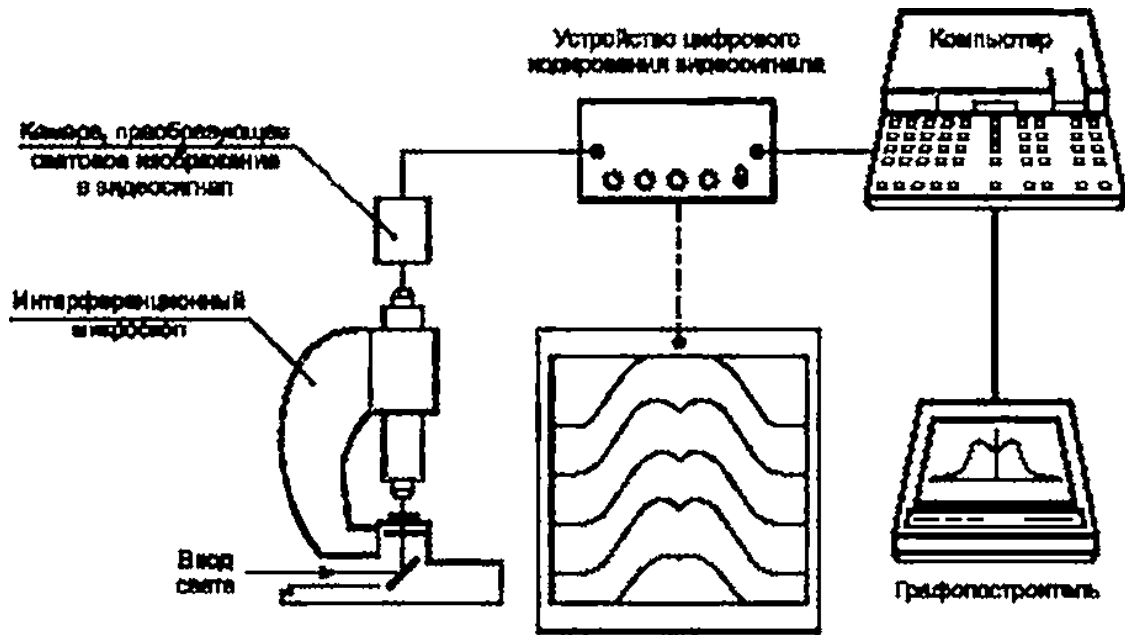


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$$s_{\dots} = 2\{K - R t j^X - [R f - R 2 j; *] - \quad < -2 >$$

$R_f -$   
 $Q_p -$   
 $L -$

X-Y

$$(\dots) = \Lambda \left[ 1 - \left( \frac{r}{a} \right)^8 \right] \quad (\dots)$$

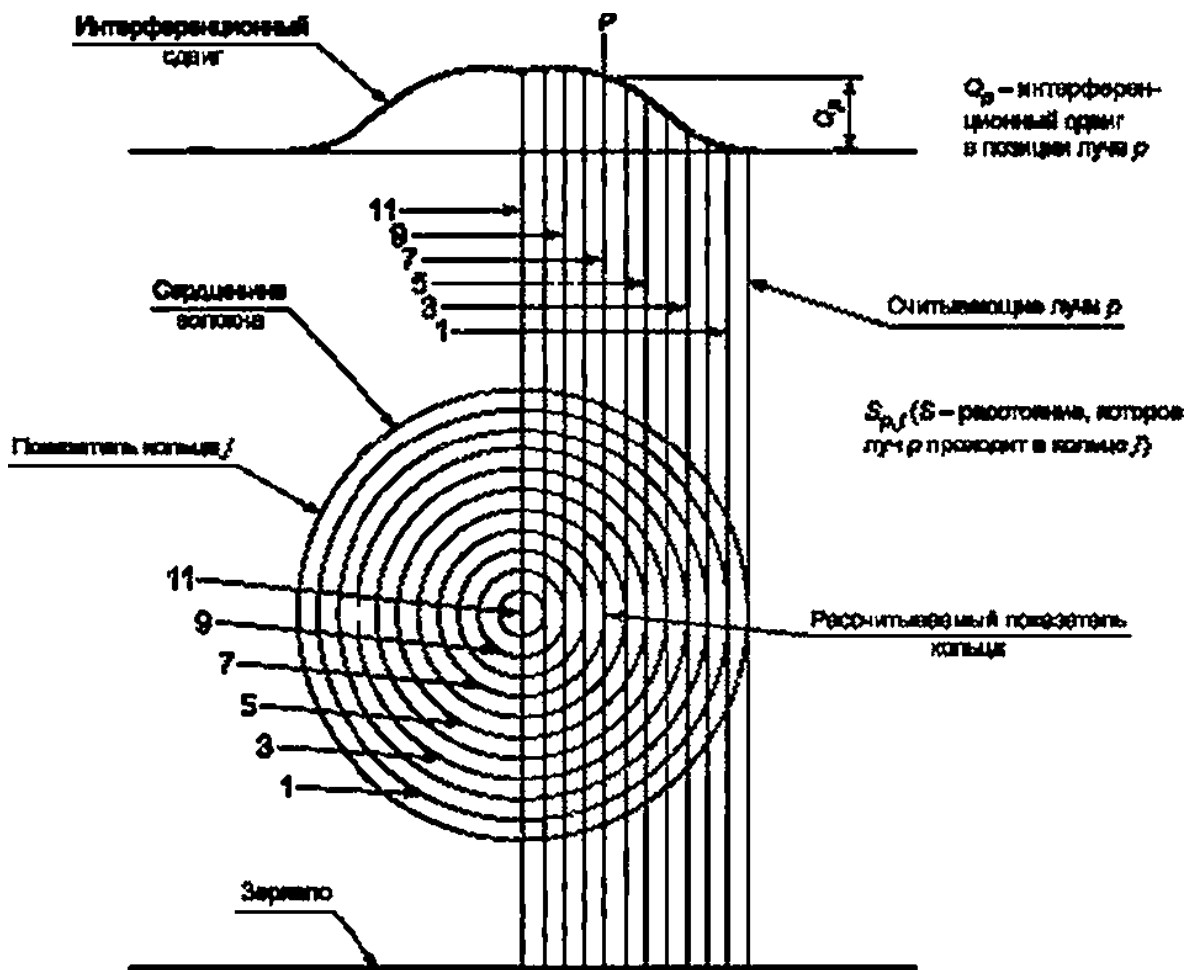
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$d < \frac{1.22}{NA}$  < .1)

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3:

$R_m$  —

$X_{jp}$  —

$R_{frgf}$  —

$\Lambda_{max}$  ~

$2R_{co}$  -

$100 (fW_{co}^{*TM} ccffR_{co} -$

$R_{gi}$  -

$X_{gj} \cdot Y_{gj}$  -

$R_{fnd}$  ~

$I?$  -

$2 R_{tf}$  -

$100 (R_{mm}, \sigma - R_{wn} di^{Rct} \sim \ll$

$[(X_{tf} - X_{co})^2 + (Y_{\sigma} - Y_{jp})^2] \otimes -$

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.4.1.2

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— 180°  
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— 90°

.4.1.3

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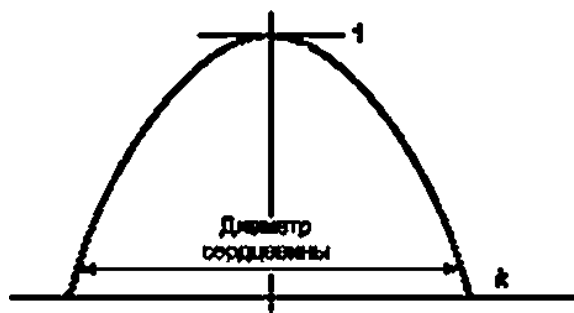
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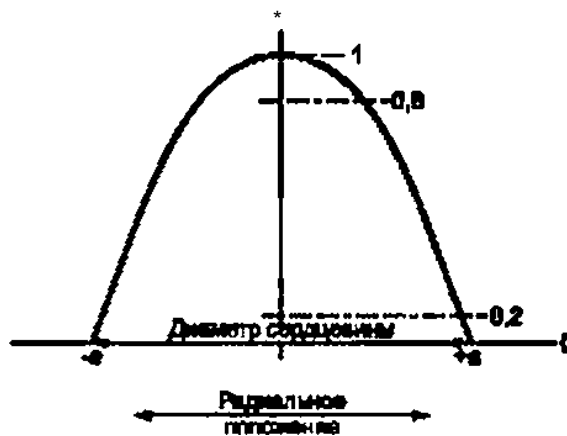
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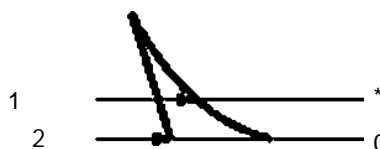
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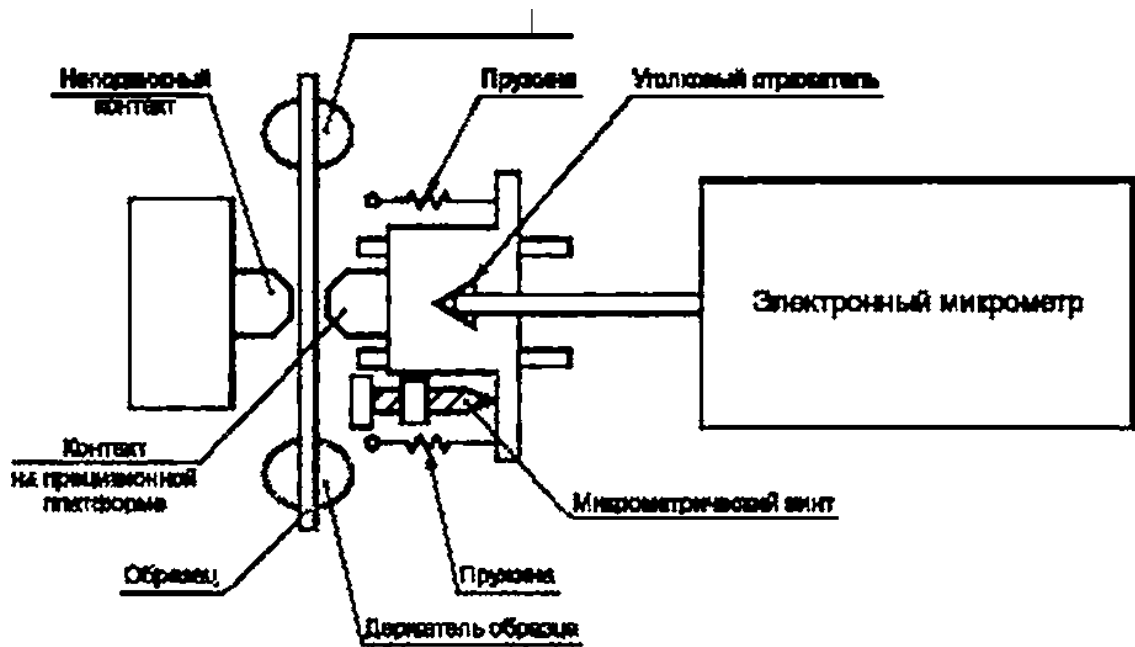
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1993. . 98. . 2. . 203—216 (*Young. .. Hale. P.D.. Mechels. S.E. Optical Fiber Geometry: Accurate Measurement of Cladding Diameter. Journal of Research of the National Institute of Standards and Technology. March - April 1993, voi. 98, no 2, p. 203—216*)

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