53 075 19 22.3. 7 [ ]: . . 2, . 6. 13.03.08 . 5. : . .**,** 2008 ., 50 . 18 . , 200 8 169300, . , . , 13. , 13.

2

169300, . , .

13 7 .

:

1 - .

2 -

3 - .

4 -

5 -

6 - . . . .

7 -

.

•

.

1.			
	$i = 60^{\circ}$ ,	,	•
	10 .		•

2. 
$$(n = 1,3),$$

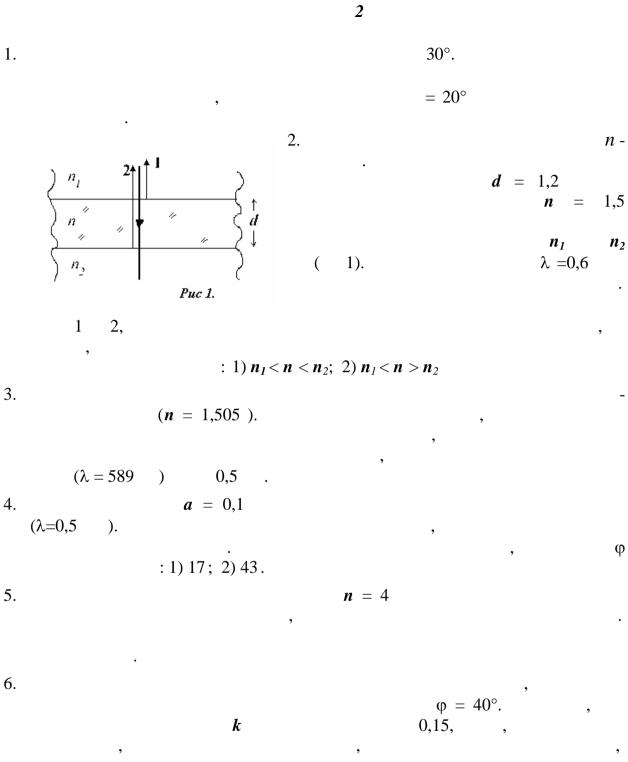
$$\lambda = 0,55$$

$$?$$

3. 
$$\lambda = 550 \quad , \\ 4 \quad ?$$

5. 
$$3 . ?$$
  $(\lambda = 550)?$ 

6. 
$$\alpha$$
 ,  $n=4$  ,  $k$  .



= 36°.

5

n

7.

1.	60°. = 30°.
n , 2.	. $ ( \mathbf{n} = 1,33), $ $ ( \lambda = 0,6 ) $ .
<ul><li>3.</li><li>1 .</li></ul>	20- 21-
4.	
5.	, $30^{\circ}$ . , $d=4$ . $\lambda=0.58$ .
6.	? $\boldsymbol{n} = \begin{array}{c} 50^{\circ}, \\ \boldsymbol{k} \end{array}$
7. ,	$oldsymbol{i}$ .

1.	5 .	R	,	
2.	0,40 .		1,5.	,
3.		,	1	?
	(λ=0,7)			2 .
4.		n	· 6 .	,
5.		,	$\begin{array}{rcl} 6 & . \\ ? & \\ \mathbf{n} & = 100 \end{array}$	1 ,
		,	$\phi = 16^{\circ}$	
6.	λ ,	,		
	589 ,			
7.	$n_e = 1,49.$			n = 1,66
7 •				,

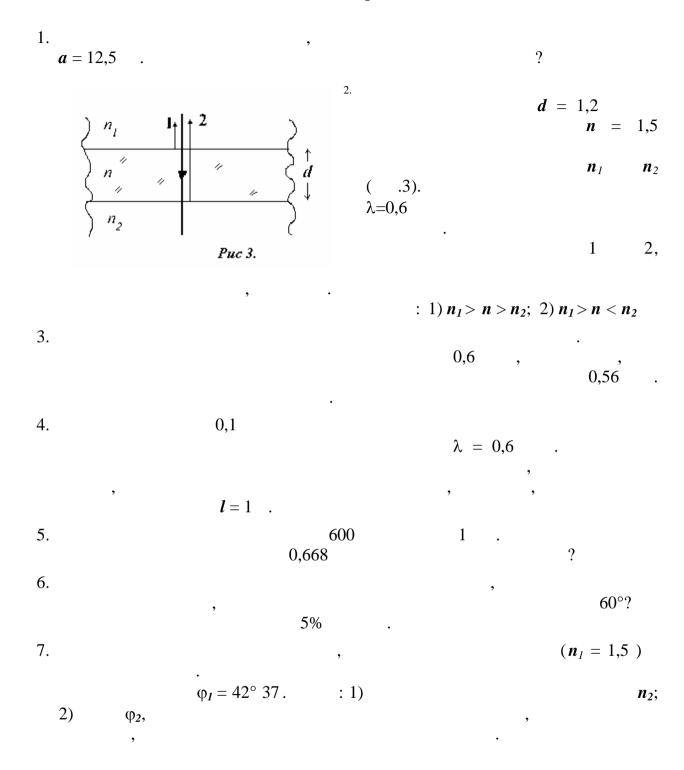
· ·

1.		-		(		1	$R_{I}$ $A$	<b>R</b> <sub>2</sub> -
2.		30°.		( λ = 6,	3 10 <sup>-5</sup>	)?	,	
3.		6 10-5	,					
4.	,	a = 28,5	,	,		•	l = 10	,
	,			<i>b</i>	= 0,23			
5.	(λ=410 ).	φ 2°21'.		n		1		
6.	·	10%			,			
7.	,				( <b>n</b>	=1,54		60°?
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>+</b>	. ~				

. 2

10 . 1. , ( **n** = 1,33 ); 1) 2) (n = 1,6).2. n = 1,33 $\lambda = 0.6$ ? = 2 3.  $r_4$ 0,7 0,01 4. 6563 Å. ? 5. n = 4,6N6. 30°. k = 0.05.? 7. 43°.

1 ,  $f_2 = 2$  . 1.  $f_1$ l = 23. ? a 2.  $\lambda = 500$  $d_{\min}$ 1,4. 3. 4,8  $d_i$   $d_k$ 4,0  $(\lambda~=~500$ 0,05  $(\lambda = 0,6)$ 4. ). 4 -5.  $.\\ (\lambda = 780$ ) ? 6. 4 ? 7. 30°?

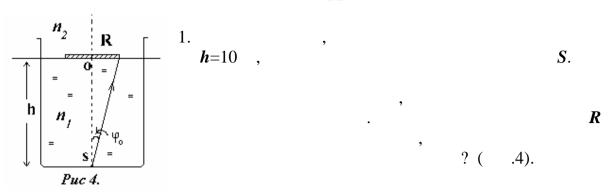


1.	, $n=12$ .	1,6.	, <b>R</b>	
2.		$n = 1,33.$ $\lambda = 640$ $d_{mi}$ ?	, in	,
3.			n	,
4.	$\lambda = 0.6$ $a = 0.2$	$0.82$ . $(\lambda = 0.6)$	).	R = 0.5 .
5.	, $l=0.8  . \label{eq:lemma}$ ,		?	, =30°.
6.	$\boldsymbol{k}$	= 40°. 0,15,	,	,
7.	$_{2} = 50^{\circ}$	. ,		60°, ?

1.  $(n_1 = 2,42);$ : 1) 2)  $(n_2 = 1,33);$ 3) 2. 1,5,  $(\lambda = 589)$ ). 1,66 λ?  $r_2 = 0,44$ 3.  $\lambda = 0,64$  $(\lambda = 0.6)$ 4. 6 : 1) 3 · ; 2) 5.  $(\lambda_1\!=5890~\mbox{\normalfont\AA}$  ,  $\lambda_2\!=5896~\mbox{\normalfont\AA})$ 2-0,5 400 1 ?  $N_{I}$  $N_2$ 6.  $= 60^{\circ}.$ : 1)  $N_I$  , 2)  $N_1$  $N_2$ ? *7*.

13

?



 $n_3 = 1.5,$   $n_2 = 1.4,$ 2.

λ=0,6 .

3. λ=500 . 0,5

n = 1,6.

a = 20  $\lambda = 5 \cdot 10^{-5}$ 4. l = 1,

5. n = 600L = 1,2

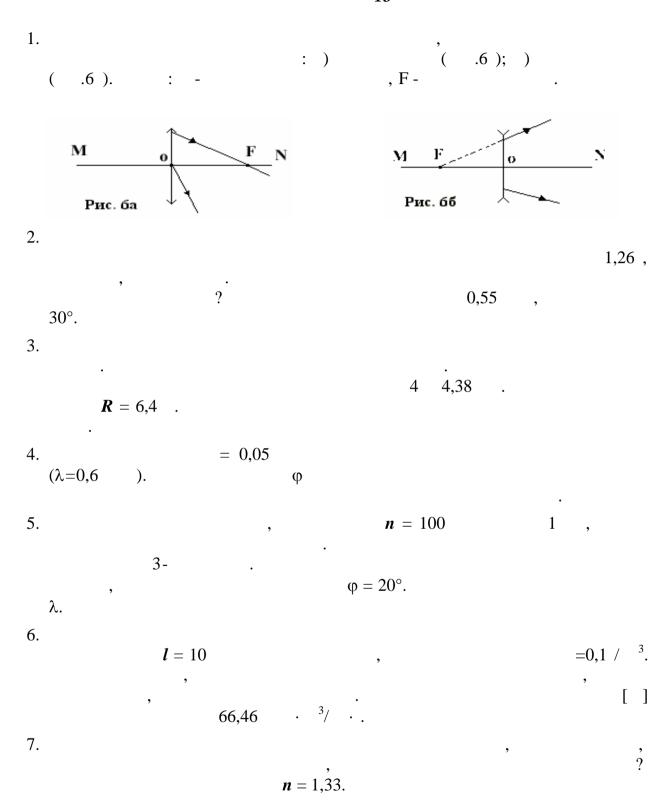
 $\lambda$  =780 ;  $\lambda$  = 400

6.  $d_{min}$ ?

27

7. 35°.

1. (n = 1,45),10 2. (n = 1,33),45°.  $(\lambda = 6.10^{-5})$ ? 3. 0,35 0,5 0,7 ? 4. 1°. 5.  $(\lambda = 0.5)$ ). *l* = 1 = 20,2 : 1) 2) 3) d,  $N_0$ , **M** , 4) φ 2 6. 10% (n = 1,6)5.). 7.



7	37°	1,43	47°	176°	156°	55°45′
9	0,18	4,72	0,22	=354,8 =395,3	6,9	0,34
5	$2.10^4$ $27.5$	29°	9	2,7	100	6
4	30°	1- = 2, .	1,8	$30^{\circ}$	0,655	3°47′
3	2,62°	3,125 1,58 0,32	0,35	n = 1,4	1,2	490
2	0,1	4,8 , 5,1 ,	0,113	(6 ÷ 9) =	0,13	0,113
1	16,3	1,63	1,41	10	-0,75	39
	1	2	33	4	5	9

	T	ı	T	1		ı	T
7	2,75	48°36′	48,5°	41,56°	1,43	32°	37°
9	45°	8,86	1,54	$J_{\phi}/2$ $J_{\phi}/8$	5,8	3,3	6.39/
5	585	657.10 <sup>6</sup>	41°50′	0,032	0,274	4,95·10 <sup>-6</sup> / 202 / 19	580
4	2,75°	1,2	4,8		0,05	143	2°45′
8	880	0,52	1,34	150	0,018°	2,85	0,49 = 5 = 6
2	83,3	4,8 , 5,1 , .	123	196 2,9	0,1	11,8	0,35
-	250 10,5	4	2,5	24,3° 48,75° 33,3°	0,11	9 0,1	-
	7	~	6	10	11	12	13