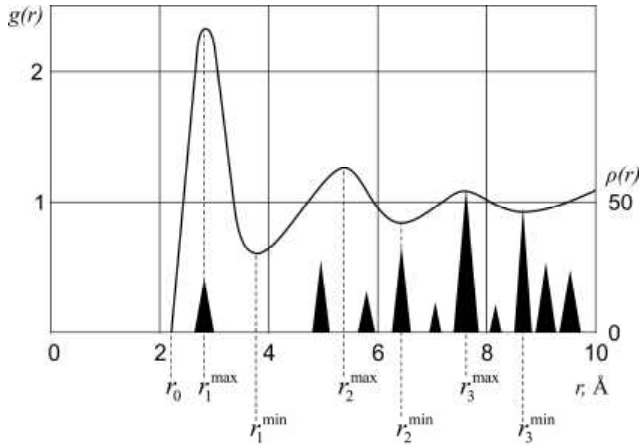


[2].



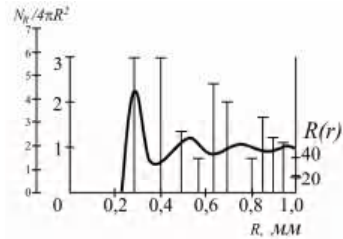
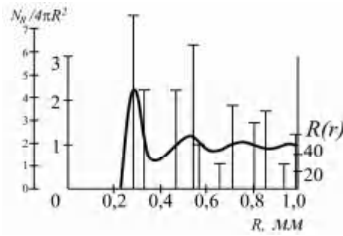
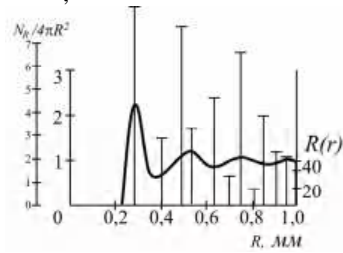
. 1.
 1100°
 [1]

(r)

1

	1	2	3	4	5	6	7	8
r_i/r_1	1	$\sqrt{2}$	$\sqrt{3}$	$\sqrt{4}$	$\sqrt{5}$	$\sqrt{6}$	$\sqrt{7}$	$\sqrt{8}$
	12	6	24	12	24	8	48	6

2



. 2.

: - ; -

. . . . ; -

n_1, n_2, n_3

$$R = a\sqrt{n_1^2 + n_2^2 + n_3^2}, \tag{1}$$

n_1, n_2, n_3 — (, ,) ;

— .

$$\frac{R}{N_R} \tag{1}$$

R					R	N _R /4 R ²
	n ₁ , n ₂ , n ₃	N _R	R		R	N _R /4 R ²
1	1 0 0	6	a	0.2875	0.288	5.757
2	1 1 0	12	a√2		0.407	5.765
3	1 1 1	8	a√3		0.498	2.567
4	2 0 0	6	2a		0.575	1.444
5	2 1 0	24	a√5		0.643	4.619
6	2 1 1	24	a√6		0.704	3.854
7	—	—	—		—	—
8	2 2 0	12	a√8		0.813	1.445
9	2 2 1 3 0 0	24 6	3a		0.863	3.206
10	3 1 0	24	a√10		0.909	2.311
11	3 1 1	24	a√11		0.954	2.099
12	2 2 2	8	2a√3		0.996	0.642
13	3 2 0	24	a√13		1.037	1.776
14	3 2 1	48	a√14		1.076	3.299
15	—	—	—		—	—
16	4 0 0	6	4a		1.15	0.361
17	4 1 0 3 2 2	24 24	a√17		1.185	2.720
18	3 3 0 4 1 1	12 24	3a√2		1.22	1.925
19	3 3 1	24	a√19		1.253	1.216
20	4 2 0	24	a√20		1.286	1.155

...

(000) ,

(1/2 1/2 1/2) .

...

n₁, n₂ n₃ ,

(000) (1/2 1/2 1/2) .

3.

$\sigma -$; $S -$; $\Delta -$;

(2)

[4] , [5-6]

(2).

300° .

$$\Delta T = T_0 \cdot \sin^2 \frac{\varphi}{2} , \quad (3)$$

$\varphi -$; $T_0 -$.

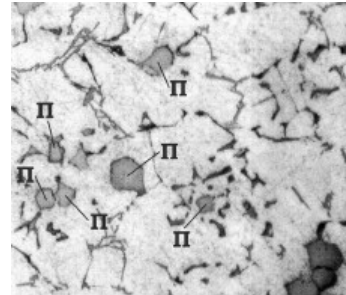
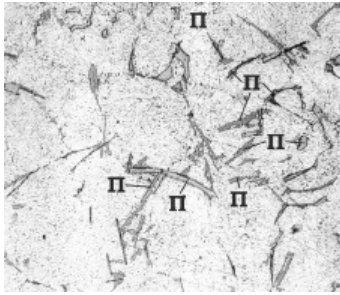
300° , 1000 50° .

[5-6]

$\pi/4,$

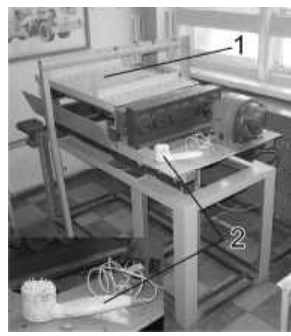
3

4.



.3.

: - , -



.4.

(1)

(2)

