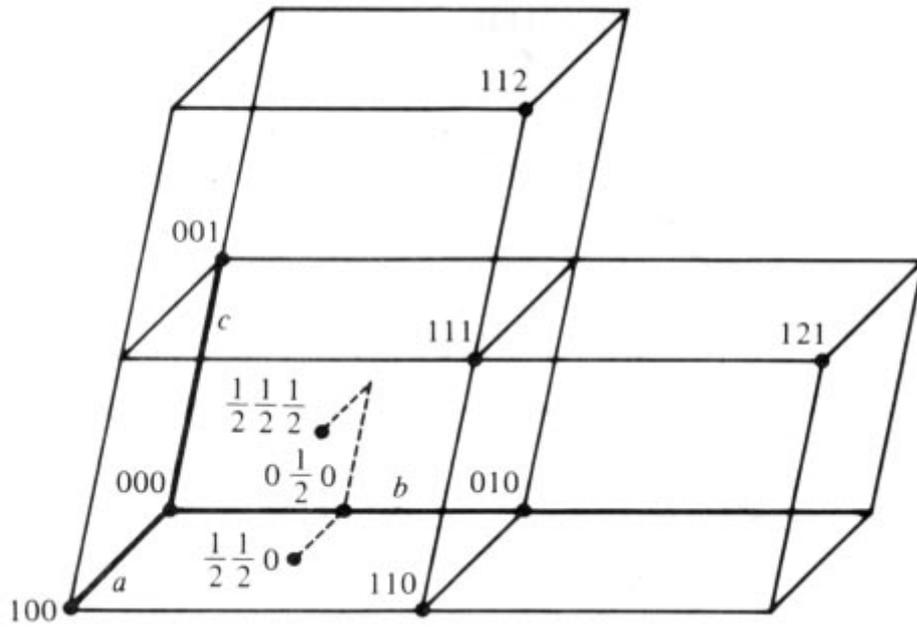




(Miller - Index)

2

3



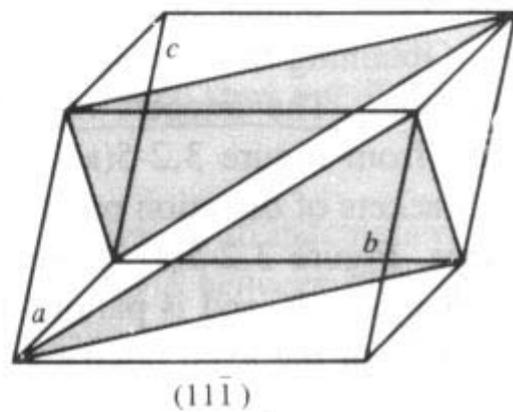
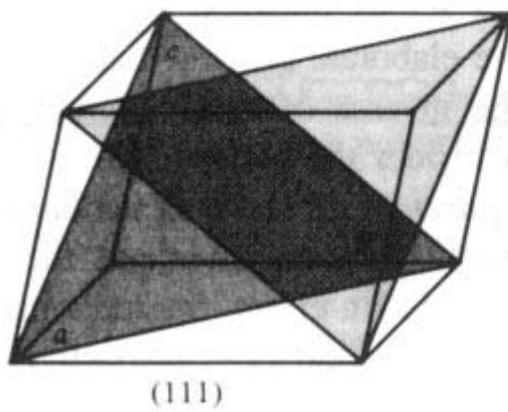
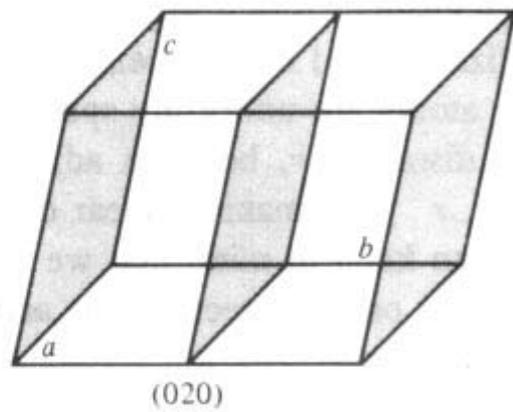
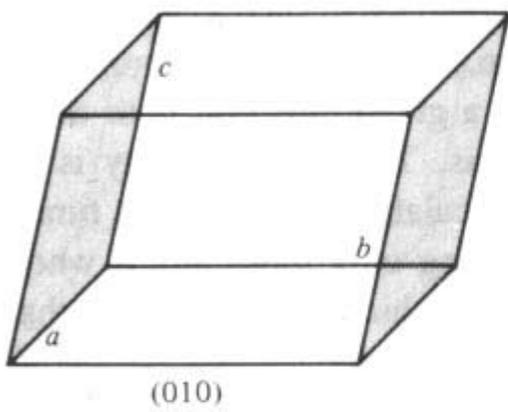
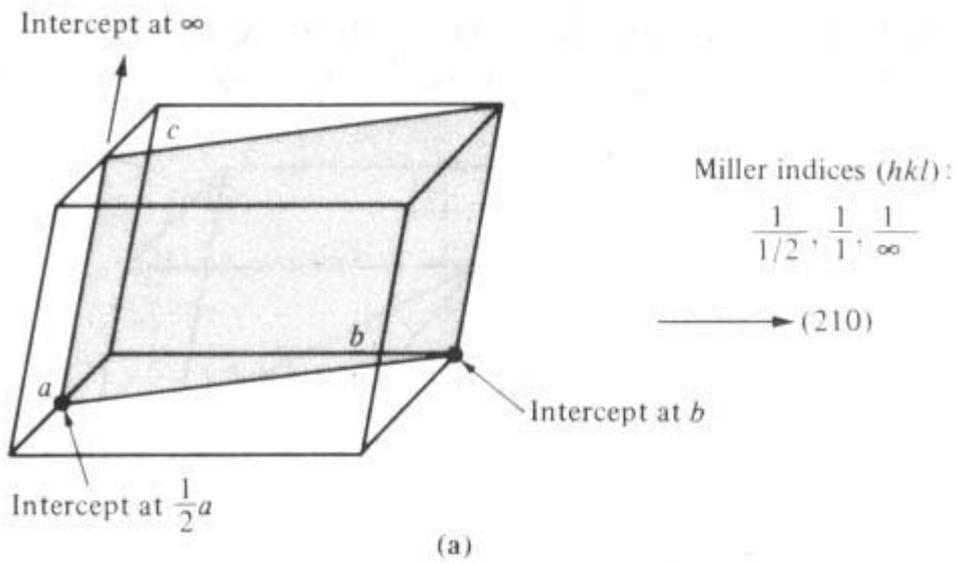
2.

가 h, k, l (hkl) .

가

가 u, v, w [uvw] .

가 (hkl) [uvw]



(b)

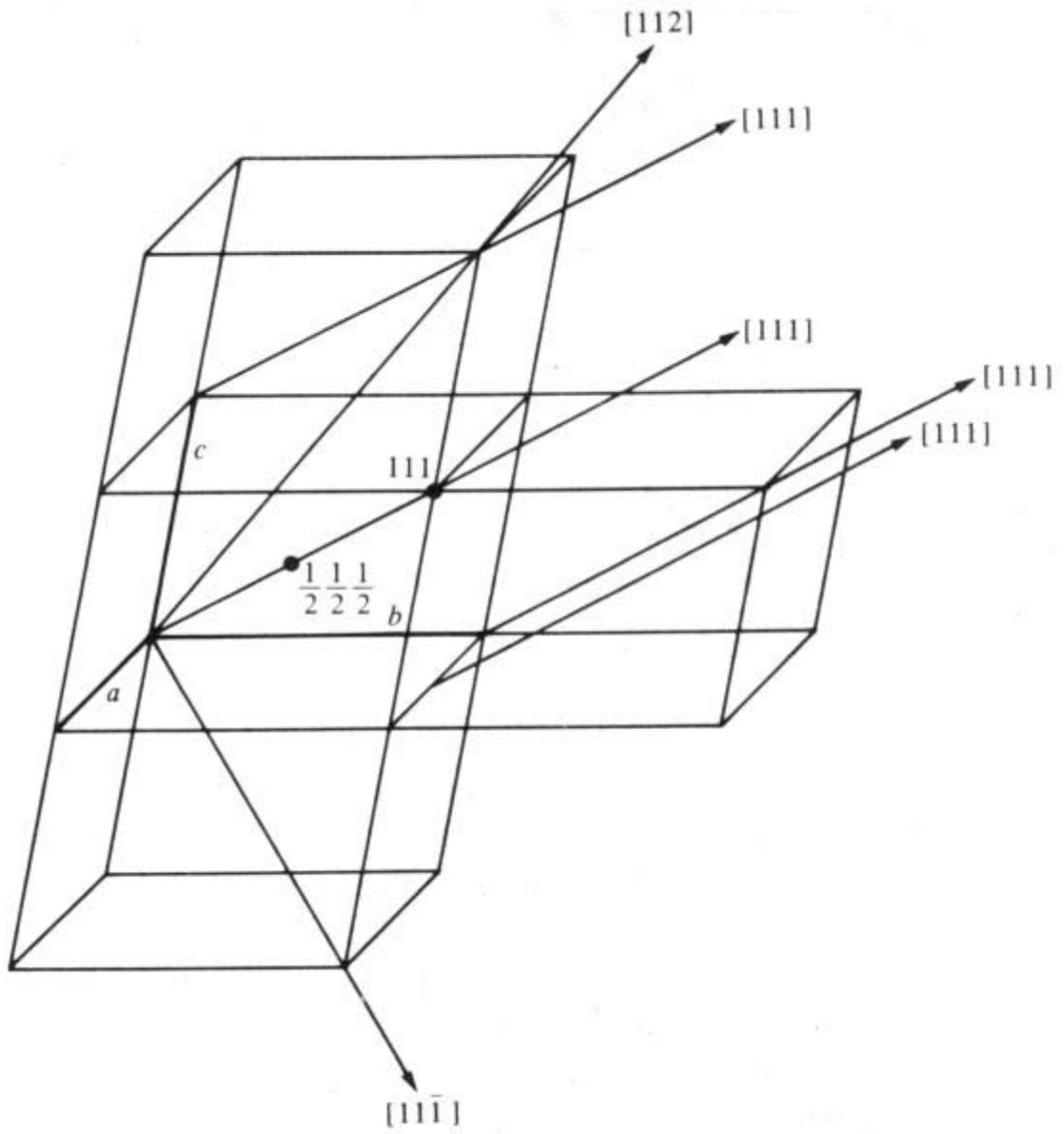
가

.

.

가

.



4.

4

A , 가 가 .

가(equivalent)

, 가

<u w>

< >

(family of directions)

.

가

가

{hkl}

{ }

(family of planes)

가

{100}

(100), (01), (001),

(100), (010), (001) 6

.

가

가

3

{111}={{(111), {111}, {111}, {111}}}

<110>={{[110], [101], [01], [11]0, [101], [011]}}

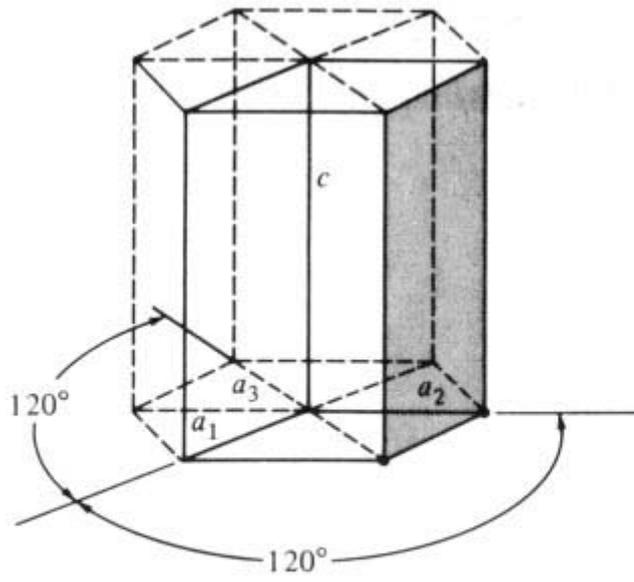
{100}

(cubic plane) {110}

12 (dodecahedral plane), {111}

8

(octahedral plane)



Miller-Bravais indices $(hkil)$: $\frac{1}{\infty}, \frac{1}{1}, \frac{1}{-1}, \frac{1}{\infty} \rightarrow (01\bar{1}0)$

Note: $h + k = -i$

6.

	가	.	6	
	120°		a_1, a_2, a_3	
c	.		4	4
가	.			
	(hkil)		Miller-Bravais	.
h, k, i	a_1, a_2, a_3	l	c	

가 . i h k

$h+k=-i$ 가 . (hkl) (hkl) .

(base plane) {0001} , (prismatic

plane) {1010} , {pyramidal plane) {1011} .

4 {uvw}

가 $u+v=-t$ 가 [UWV]

[uvw] [UWV]

$$U=u-t$$

$$V=v-t$$

$$W=w$$

$$[1011]=[211], [2110]=[320], [1120]=[330]=[110] .$$