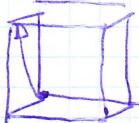


① A ete B  $\rightarrow$  sistema cubico

$-A]$	$r_A = 1,858 \text{ \AA}$	$a_A = 4,2906 \text{ \AA}$	$\left\{ \begin{array}{l} -\text{Simple} \\ -\text{aupigetar} \\ -\text{quadrado} \end{array} \right.$	$\alpha = 2r$	$r = \frac{\alpha}{2}$
$\alpha \neq 2r$	$4r \neq \alpha\sqrt{2}$	$4r = \alpha\sqrt{3} \Rightarrow \underline{\text{BCC}}$	$4r = \sqrt{2}\alpha$	$r = \frac{\sqrt{3}}{4}\alpha$	
			$4r = \sqrt{3}\alpha$	$r = \frac{\sqrt{3}}{4}\alpha$	

- B] Metatake foltore lindade: 1 [101]



CS. FCC BCC



$\angle_1 = 1$

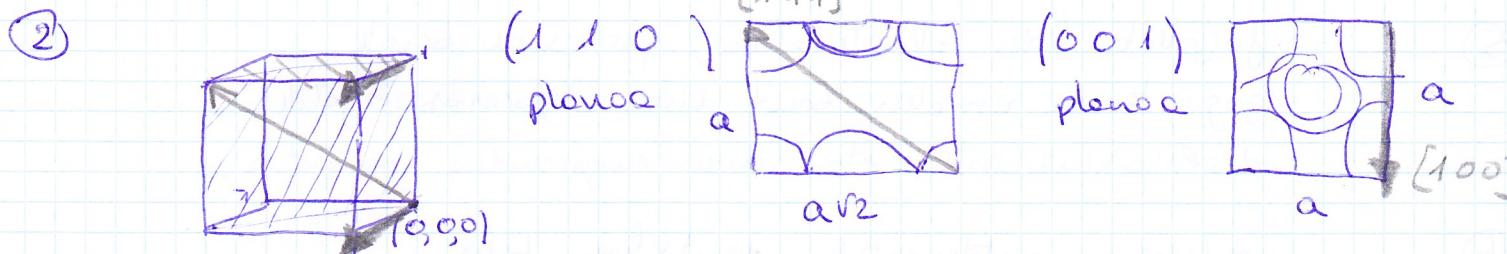


$\angle_1$



$\Rightarrow \underline{\text{FCC}}$

FCC sen metatake foltore:  $0,74 - B -$  } A metatida  
 BCC " " " =  $0,68 - A -$



$$(110) * (1\bar{1}1) \Rightarrow \text{metatake foltore plane} = \frac{2r}{a^2\sqrt{2}}$$

$$(001) [100] = " " " = \frac{2r}{a^2}$$

} Metatake

Distortionice metatuen degeen egteuren hedetilde

③

$$\frac{C_s - C_x}{C_s - C_0} = \exp \frac{x}{2\sqrt{DT}}$$

$$\frac{10^{18} \text{ at/cc} - 10^{16} \text{ at/cc}}{10^{18} \text{ at/cc} - 0} = \exp \frac{x}{2\sqrt{2 \cdot 10^{-12} \cdot 3600}} = 0,99$$

(3)

$$\text{ef } Z = 0,99 \Rightarrow Z = 1,8$$

$$\frac{x}{2 \sqrt{2 \cdot 10^{12} \text{ cm}^2/\text{s} \cdot 3600 \text{ s}}} = 1,8 \quad x = 3,05 \cdot 10^4 \text{ cm}$$

(4) a) addiktive alstroplose:  $\text{Ti} \alpha \rightleftharpoons \text{Ti}_3\text{B}$  832°C tara

b) 830°C Au% 15 300g  
835°C

$$\left. \begin{array}{l} \alpha \text{ Ti} \Rightarrow \frac{58-15}{58-7} \cdot 300 \text{ g} = 252 \text{ g Ti} \alpha \\ \text{Ti}_3\text{Au} \quad 300 - 252 = 47 \text{ g Ti}_3\text{Au} \end{array} \right.$$

835°C 300g Ti<sub>3</sub>B (fase boksera)

(5)

forjelket bider elhiztutako; prozesak berak gogortasune ematen baitu dio deformazioagatik, dislokazioak sortu eta haren mugimendua ortostatik.

(6)

polimerico metalegatik dentsitoren bider  
aluminio altzairutik propietate magnetikoen bider

(7)

(antena asko)

- Eta
- manteza = haren elkarpena ankeratutako aplikazioan
  - erreforku = haren elkarpena ankeratutako aplikazioan

(8)

1	Templetak	mantezia % 100
2	Normaliskete	perlitak, baixita, (mantezia)
3	Subiskete	perlitak (fodia) % 100
4	—	baixita % 100
5	—	perlitak fina % 100