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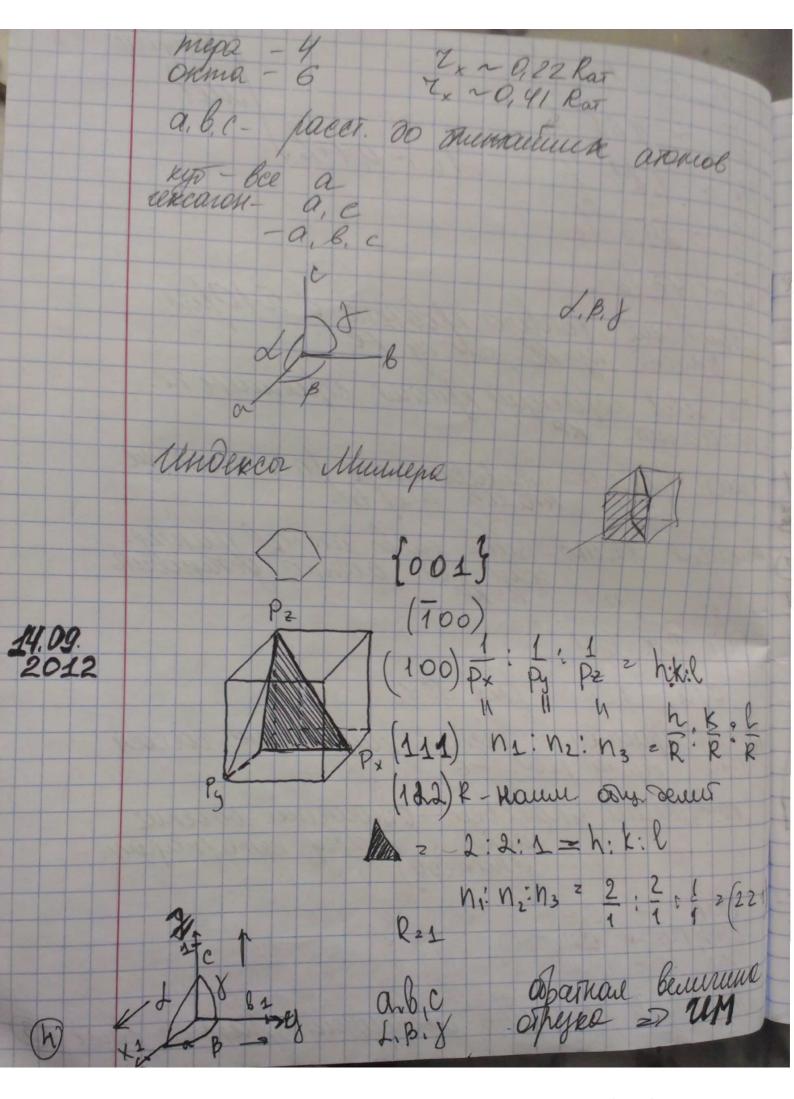
1. Fobempyктурог реаноного метаннов 7.09.
2 Anarpameior coemaenus
3. Copepurecraie upupode das emiabob
4. Кристоницация метамов
5. Рекристанизация металив и стевов
6. Стани и еннавог 7. Рафинирование и обработка метамов в воскупие
8. Наночения и нанашачерите
Memanobedenne - nayra, nygrasonyal crhyr nygy a cobo memanob u gemanobene Gaemachep member Coemabon, crhoennen u cobon tilet.
Coemabore, exportelled a co-bore tilet.
1) Texpuereexce marephanoledennee:
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2) reglemure croe marefulano be benue:
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a management un meramorpaper *)
yyraer espanie Met, papurenounu a

методости спятегеский жекором спекором uccredobance pagnirmous ebb elles Увниового терисостисть телиопроводией в завесимости от структурного строет Ументе видоров Мев - волого, писания, Medo + zorobo = sponzo (sponjobora ben) therepo bejuero nojune hepbore estappor Rezden 1 Acocopyer upon peaudreorx Melman upolini 1) llepuore ellet Be / Co. Mn, Ni) a) Bennoce Met /bce oct) - réverse Be, Mo, Al, Ti)
-révenuablere (Ho, Ga, Sn, Pb, Zn u ep)
Im >300°K Mp -29°C - myronicabrice (W. Mo, Ta, NB, Re u ap)
- Exaropoonore (Au, Pg Pt Pal Os Ru)
- uperochogeneranae (i' Na, K)
- yranobore (U Th, Ru)
- JP3M (Ce, pz, Nels) Ruape - emenent pacyocitatienue gueriente (D)

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Al ~ 8,03 % Je ~ 465/. Mg ~ 1,87 % Si ~ 29.5 % On 47 % Sayrenne coroboro nhadyera 8 5-10/as bee Met xapaereny relieval exposurery Te. Крист. строение- упоредочение располнине Inducent everte - min raile aromal panent.

your per mount year dens OJK, TIJK, TJ, Y c/a = 1.65 /one Thy R Kachdiegaqueunce meno- kai bo ohum. cocedes кожрыция упаковкие - отоенедиие од велие -истово с объему куба/параме -0,68 PMY, MYK -0,7 954 Traffarrest Jemester - menerous pagues feire 3



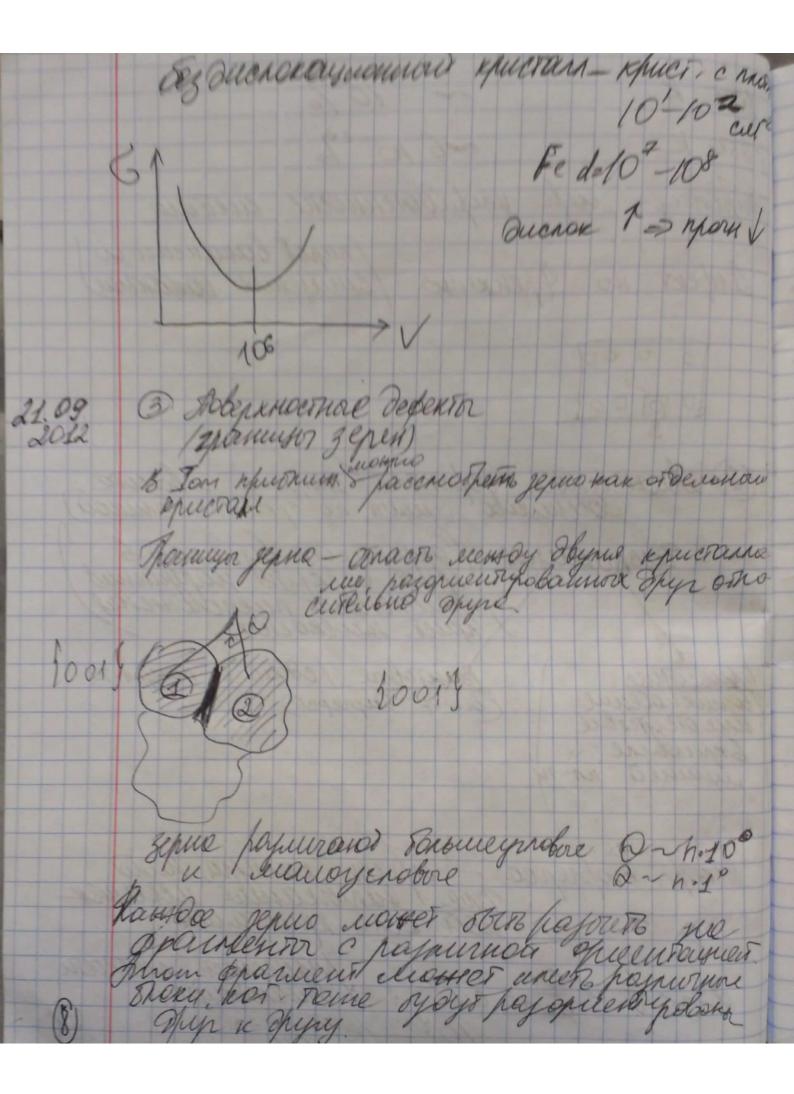
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Кристанографическое направиние _ рерпенои [100] Aul chilliothe mockoeses 2100> la jabue-ru et suextronner kontingpaque - престоле Downer n K L M N nodobalorell 5 P d f 3 5 7 2 6 10 14 Lamad silket konqueypossus 2r - yupkonus 1522522p63523p63d104524p64d2552 Cu __ 3d "4s" Superiore - Met y not d'évacoire janous. Acherednoit - Met y rot d'aconorre nonn. 12 janouiene u nact, cred. ypobens

Full mopiledok Chauseur nopelock- ne secrou paces Mueboe spuis. cocraence bery be ne noeanon.
We allow peaublos b-ba Перектог структурог кристанив X (2) Bakancul janleyenice To revivore (hapuepor no belul nanp. adular - bakaneus (arau groons us, yzno ko upen nured menon - mendog zenonore araue odnoro bey be aronum (paneus) - preparo araue odnoro bey be aronum (premierente araue araue bulloplume) 5000000 0000000 F= U-TS Ecru ospaj debersob aprebadur la nomunemun (-11- K noborusemum => yerowruborl n I /KT Jab to eouyents baron > n > levy be 7-> n-> 300 K -> ~ 10-130/ CU

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~ 10 % 1000 K ~6.10-2% 1350 K Insponent- méle judpedorennoche authun refere no Phenxeuro (auenjenne baranena) 0000 0000 Д Минектор Деректи (мирина и воссоте - OUCHOKOUJULA BELEKT KOT BOJULKAET B MABULTONDETU RACHONOMENUS KHUCT MUDEKOETEUS Винтовоге /сови в пачупа-ти duneithore (Berrop Geoplepea) Comercuobenne an oregresone 6 xpueroune incurred un- TX Berief Tropreper - experse routing, meters d ~ = au 2 papulernoers MOTHOCETU (7) 109-1013 act-2



Оне Мев характерия опочная структуро Januare sepure (no nochiemus) Mupuno ip. genno n 10 mel ј граници зерно - апоррноге состанние Come for one forme apropour Apellerorna cobhadenul ynob (1909) 2 son namono cobnadennes p Jepen Posse el nesot khuch. espoence Misordo estrur aseras no um cocraby MIOTH OCICROROLYM EAU DUCKOROYULE PACHOUOLARILE BORIGE ROBERT EMICT MOD SCITCEBUREN BURELLINUX CUN ONO MOHET BOILETU NO NOB-16 FLOTHOCTS DUCNORAGEME & ~ 10" sing = 6 h pacet weredy

Ko gares Orth amax виси Гравления - вожод пиния диспокази убрания усле существ. вишегот на симоге раз. Кого. Окронии при муна Темперакура по уванинать зерей и по объещу бокого и кого Day ~103-105 7-7hn => Des ~1 The Co Tru Мисло дерен и их съргение сильно вмисет Apeden rekyrecty - (yendenous)

noth nanjudgenie neu rompon octomornau geographianie & Met coerabali

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@ Obblilling Debektor (hacci lo beek 3ex robinarolar) Papereceae aprepada por Comabe Em 2 arell coedien relieby cood [coed, chiabers)

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oppossorbarace poynimore gajor Pajo - Il habrobecuoe cov-le becybe, omerano energie no ory cobamina correcensa beginsommore habrobecuna correcensa roco me bely-62 abyx xacenacelethere encreuer Low-wa, coed. wendy cotors to weredy huny wolf source color popajobano problem problem coes we no colongraphy or ordered of previous ax organizations Ayoyedur (j-menego) liobbee pajoboe cocs us abe yesois ruborn Mucho Comounoux 7-yeorguest coes arentus
aped as makinen Tuosco C=K+p+2 p=1as C= K-9+1 K-Pabi. remep, kongora (11) Zucro beg

C=0 P = K+1 k=1
p=2 A20 в обноканной. систем и 5г ток шегору-A+B 2 kaun. OCH. pajor, 1001. rever cours agrajobubors A Report haesbour 2 bilde day: Repose pacifica separe dajorb kon asono asono sulle che cultivarior de papero da propier de papero de partir de part Budon Hepons pacsbopol орашиения варась. шеоцацигения The pack Te a NB laceto bostrus Mo W & instead rousens ractopor chemis. a spurader a pourier Ex A/18 A+B Tunor Berdow passbopol Le pacibopernon 4- jacibopernon 4- jacibopernon 0,85 = 28/24 < 1 ujaci aroni pyroco remorts bepoon

4 pacificher buedpeune / buego edentry as oricanul Ta < 0,59 3) pacibopor baruranue (orbas, us senobe coedres! pacsop bornerance fueroposa & Fe O 0.0.0.0 . 0 × 0 · 0 · 0 x 0 . 0 . 0 0-050 o - at Fe Ni C NiSB St -> NiS6 56-> Hapyulule cocrabe (upsour uny perociaron) apayer pacific corrusamien groto 28.09 Об 0,59 с 3 0.85 небрагоринетия же обра-There paer bopor jouley - arour an 6
Hax & Sonow urai He ke us

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gnopiesoreno

Cu-Au : cuci ghas renperorbuois reporting TBppergar lange Растворог обранию сверх структуру. Inopedorennose TBP u reynopedorennose TBP 1) FUERT POCOMPORE Bresul STATE Choc canabal were rown emarkery a 25 75 Au, AT.% toreny paieres composible esserb Met govals gy - y sulle hapme arome, I none ynjepew Goupeo.
- or pelleromoro sener - bruienel segento, not nobour por you canpor Hans anno (the owned cremy romanny beformed the obtail curryn romanus 7 - Beparthoes row, un ocennous arone nous & ш- - 11-, в побрешение Урушего компон 771 W70 5-1 (14)

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72W => S=0 Odice up budol pay - (Hop) I maneny or more fagor (19) 179 - payor, ear ormer or Hb L'UM exedun - offaque braconocon y 2x suly hobors beig-6 opporo crexeonesp exercise mb.p. < 17 P >> HuBm Ocoremoen 179. 1) pegeod otherwe no greet espoemus a muchocotan 2) KP MP - OTHER OF PELL A ALL B 3) 179 no dearp corrende orderene
4) 179 F you copow execonerp ever AC===0
minepour conjeniparine acto 1) Lieuspourore coedium Pau Pezepus 7A-7B = AZ - mano (<10%) gage copy werry Cu. As Au, Fe, Co, M. Bloth, Col. Ac In, SI, In, Pb - B m = 3/2; 21/3; 1/4

B3 /m /2 P Olfk: Aug Sin Cugh 2 Cuth 2 - rueno aronol 6- 2 Banewy 4- meno arono 1-page 21 = 9/m Crossen. Kyour peus Cus Eng Cus Alz C-page 1/2 1/4 PNY

No oceans coercienal policy or be 3 peps

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gayor newy naxod d'onned ook kongemp Pajor sabecce Gereau don no AB2 belly party of unesof hoguly chyec Za- Obr Zz-man 270-300 Monnoie menor pay unever tognurave cocoacum C-15 al. Kyor pery. Mg Cuz C-36 Crosser rexearen peu Mg Fn, 16

C-14 - rexcan, crown pery. methypor eshapper marriagnanobamore
esperypor roops rucho (one My)
16 Mysoremenerypure depunsolodniky Borcokoreun eparypuore chepropole (N-ajornore reven) 70 V2 T < 818 K 18+V2~87 K Pajor B-W (A-15) OUK A (1 V - VI) 4 B (VIII) Ga, Si, Ge - payor noer coerable NB3 Sn 2 18,05 K NB3 Ga = 23,2 K Порупкое соебинения

4) G- page CrMn; V-Mn; Cr-Fe; Co-Cri Cuennoe response erecreo/30 as ∆ C≠O брозо - хрупкость Pajor buegoessus orpas mensoy julill xos cumo ormer aramina. Mo, W. Zr. Ti, Ta, us a CN, O, B odpaj pennerky, onyregnon allet OYK, PYK, PMY Bowcoxoul Hr , I make Then Doch Takue bayor, e motorten C-mercio 37 a c mjobirkani NB-moprianono No C NBC /44-50%) C/s -20-33wet annimet Kob $76p \rightarrow NP \rightarrow XC$ Ca As-nonjapolodium, amanon Si umpune janpensennoù jour, 610-100/14 Dopotel Si (19)

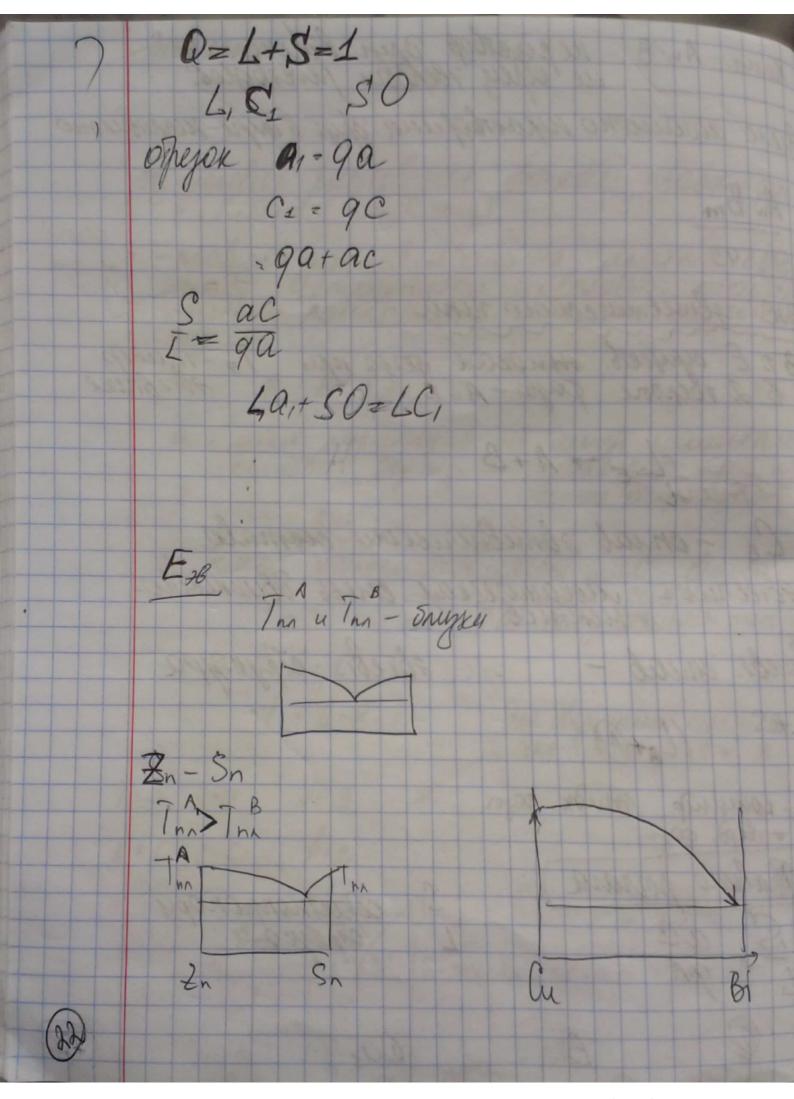
1239°C Ga-29°C a cabuneur nota 15 ~ 400 8 The ROMM hazden & Quayanno coemaerius (DC) 12.10. 2012 ОС-диауания изов довинимость устой и-вого фазового сестаения системи от Тем параметров, определ. это соетаение. The napamerpor - T, P, n (kompensparene) P = latu - укарическое муобраннение фазового состив списос в зависинской от ченнера-турог и комуентрания Quarpanue pabuobecus (= DC) faluobechow comachine Равнов, сост-ие соотв. Тому, гто эксрии Jussec G=U-TS+pV G=min Growniboer cueremon acenerubalices Comm U-TS=H Pepasson Tem 10000009144anue nepexodax uid nepexodox, Marridoaeras naumopunx

Insarlonul -My yenobul pabuobecule borreraer mabieno pa -провино, установленванные свообог системо меняму степенения свообог системо истом раненоменям системо и числом N = K - f + dn-ruero napamespob, not mongs ignementel
benereme org igner. ruero even chososof

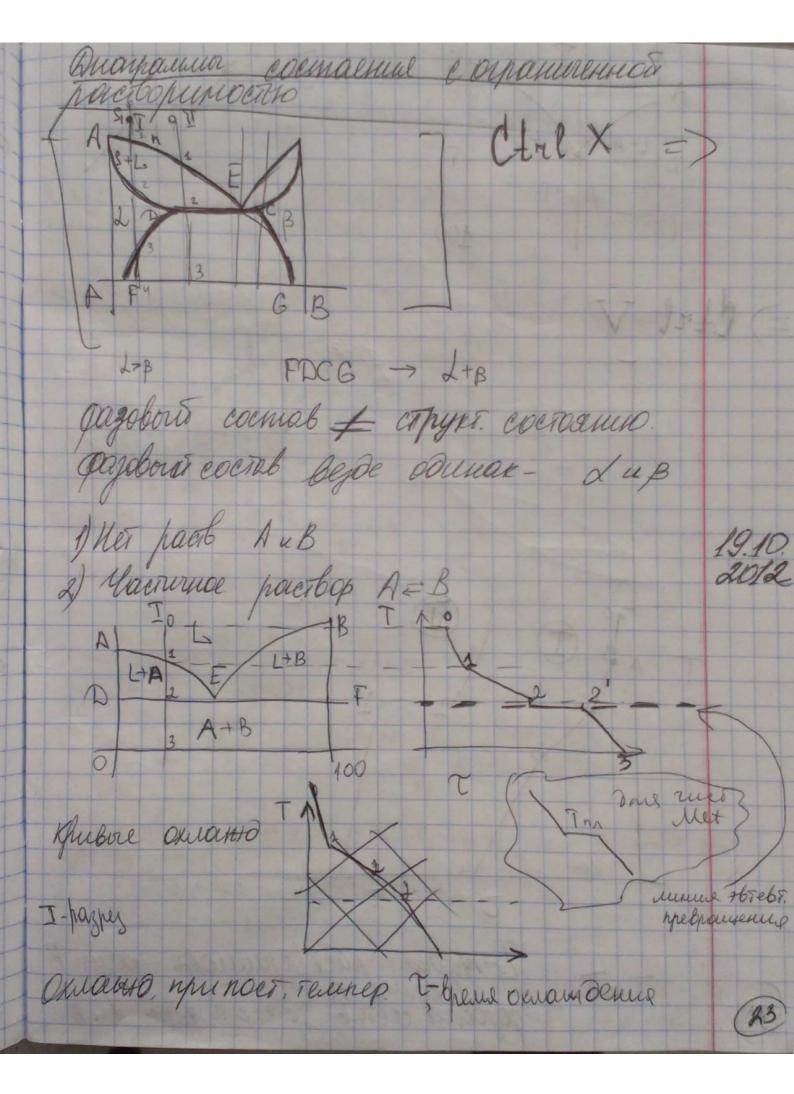
f-ruero pay R-rucho Kommonentol / Meret Juliu Bey Bo, Offer Julius Cucremy Julius Ju N= K-f+1 unike rucho paz = 3. f=n-K-1 X=2 N=0 f=3 K X=1 1=0 f=2 To HH Tong OC I-10 pala To H+T E-objectureckas Torke (00% A% = 3% (20)

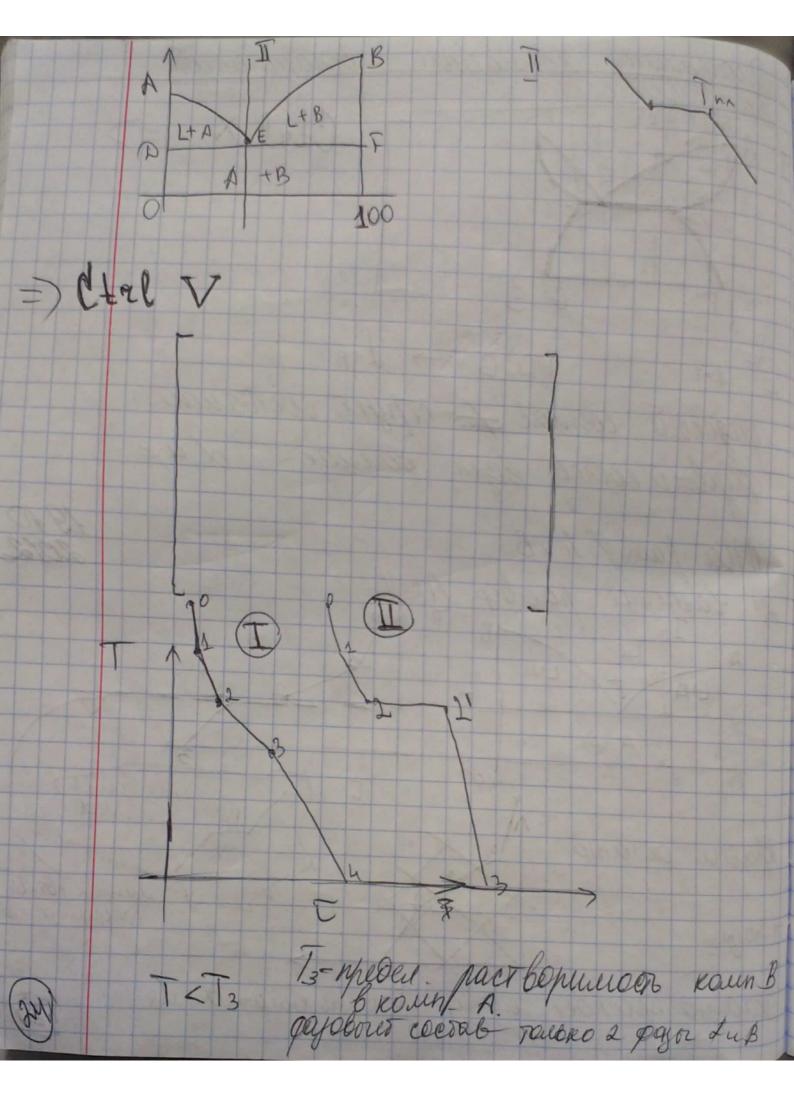
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Kown. An B ne paerbop open bohyre un ochous. Thendors parerbopes. Знем абсаното перасоворимия груп в дуре-пеправилоно An Bm 51 49 DC semebuureckow runa Br. E apyeers. unideane gaza uper 6 2 response pajor - Au B. To - Tevenep T-const = > A+B L'E - comab semeboureceous comabo Негинов стесь бужнотью-Homebs. cheab эвгевг. структура L+S (L+A) C1- Komsensp. Hudk pagn A = 76epd. gago Spabino porrara 5 - Обратиопропору. Sac Egn 1) @ Qa,



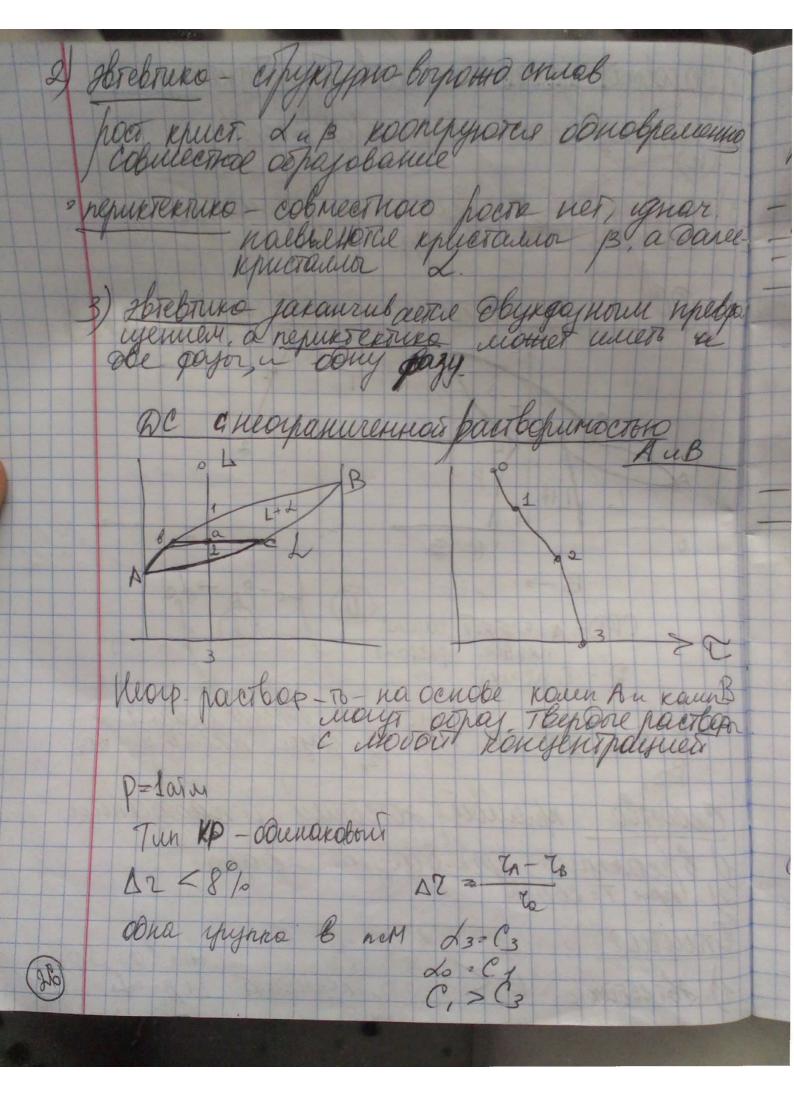
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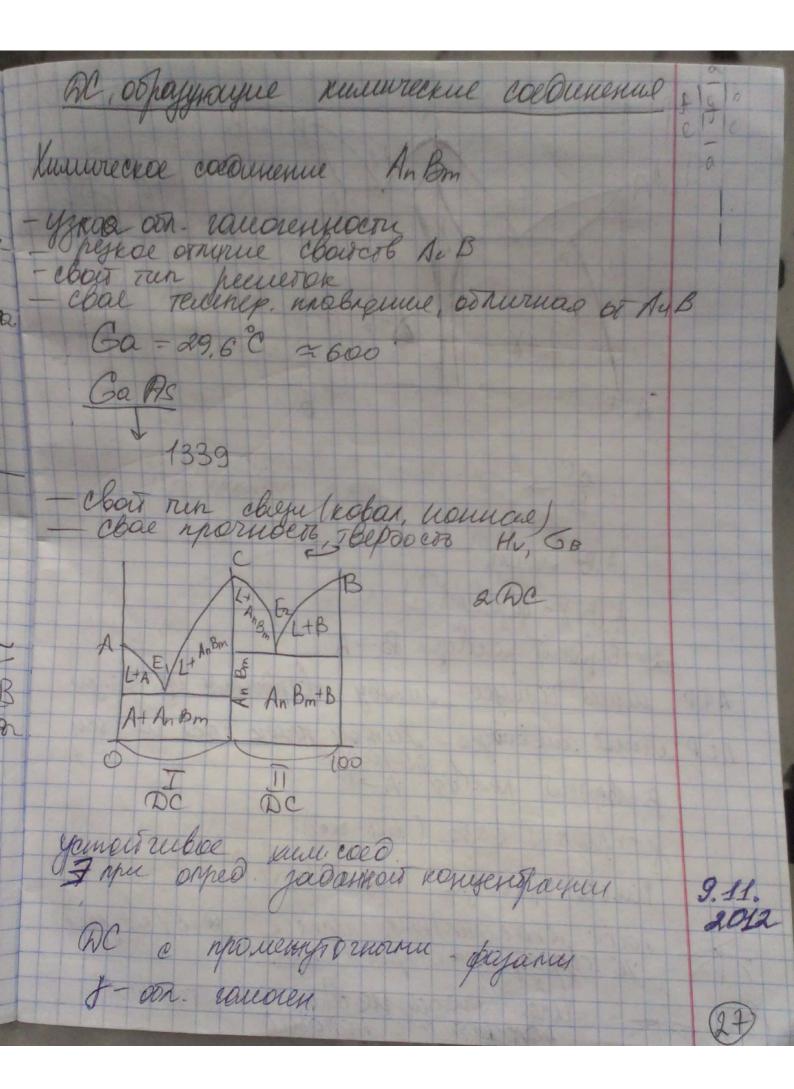


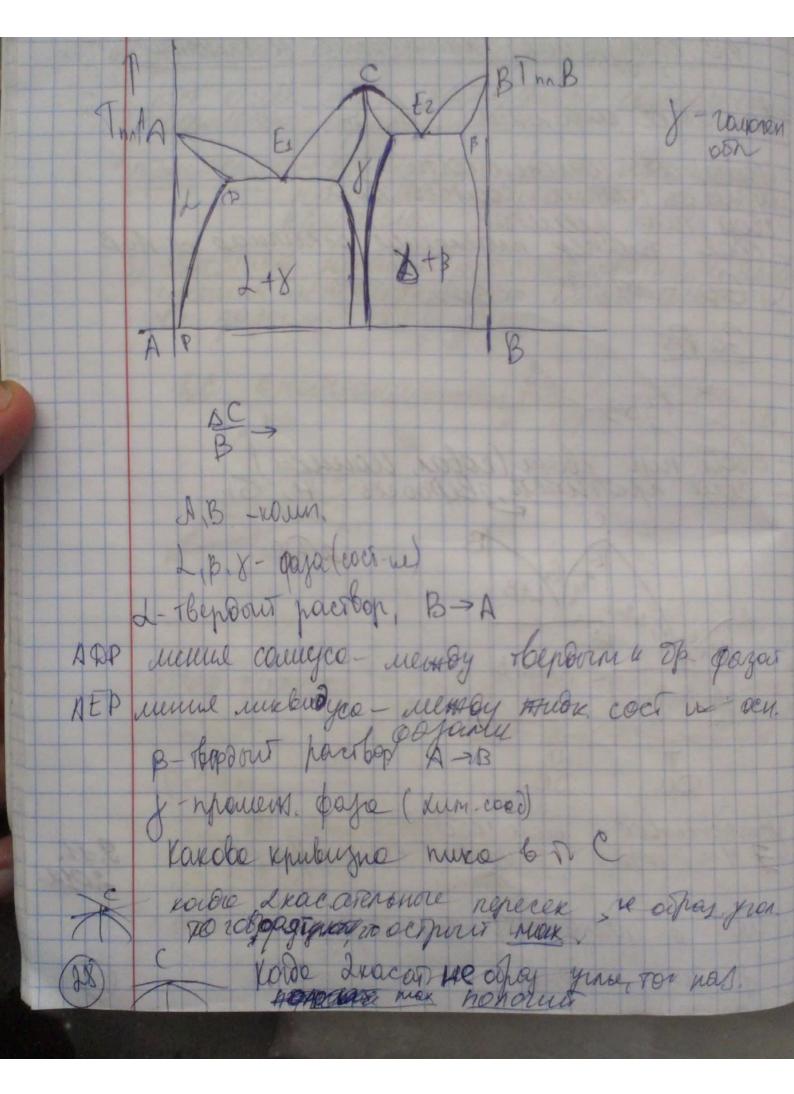


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2) pajoborts cocrab ne coort. Apykryphany 2) konsent paemerbalchiebe) = const 3) xougensp. P. C. benerema repensembra bjobn-ВС с перичекопическим превлащением Lo-Bo-de P-T. nepukt. Lez 2D - Oppejox 20 sonour. marin Boz 20 30 pour ashour, level dez Схобство приной эвтевники и паричектими 1) Bhearing groberbyser 3 pajor 2) hpu T= const OTHURUS 2 pago , repulsers $1+\beta-1$ 1) Herebruke HI







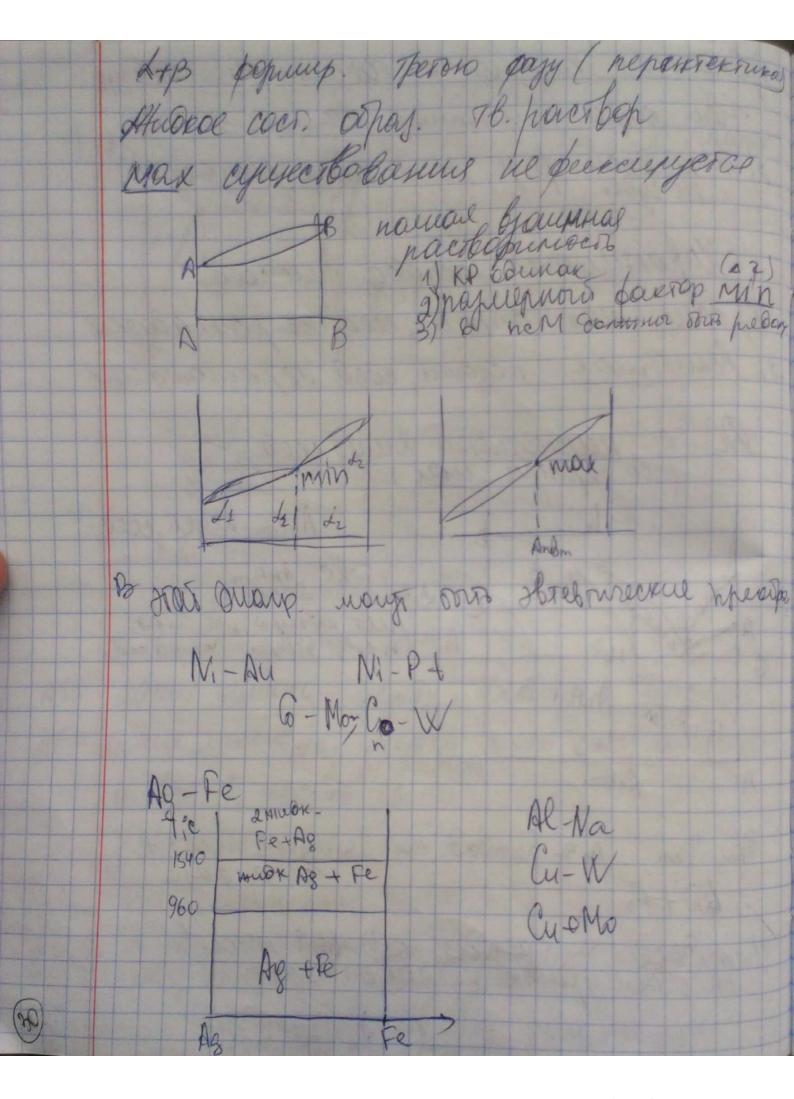
1) вид поих говории с стибиньшоги соедия Mon cospee, ran serome consurance cood. 2) B Hudkou taje, coeducence paonadors Характеристии распадо ким соед 1) Если могх острый, соед не распадаетья AC c negorormbour xune coel. Andron Duc - An Bons

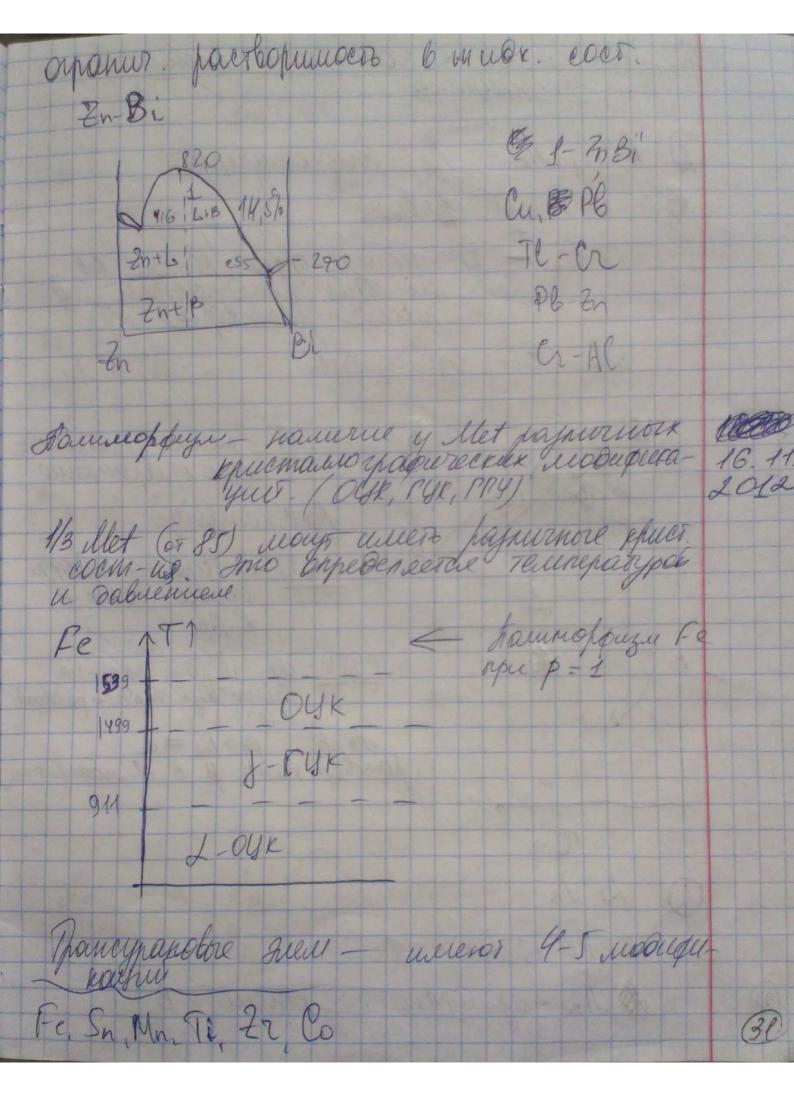
Andron

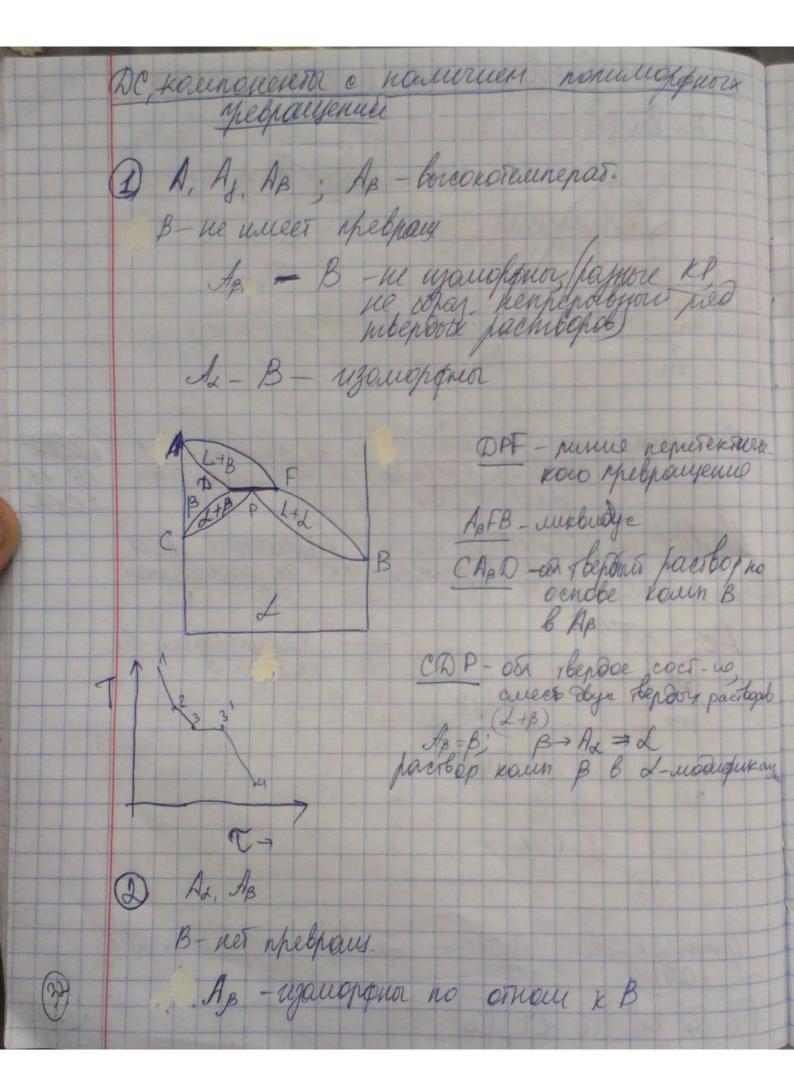
Cold

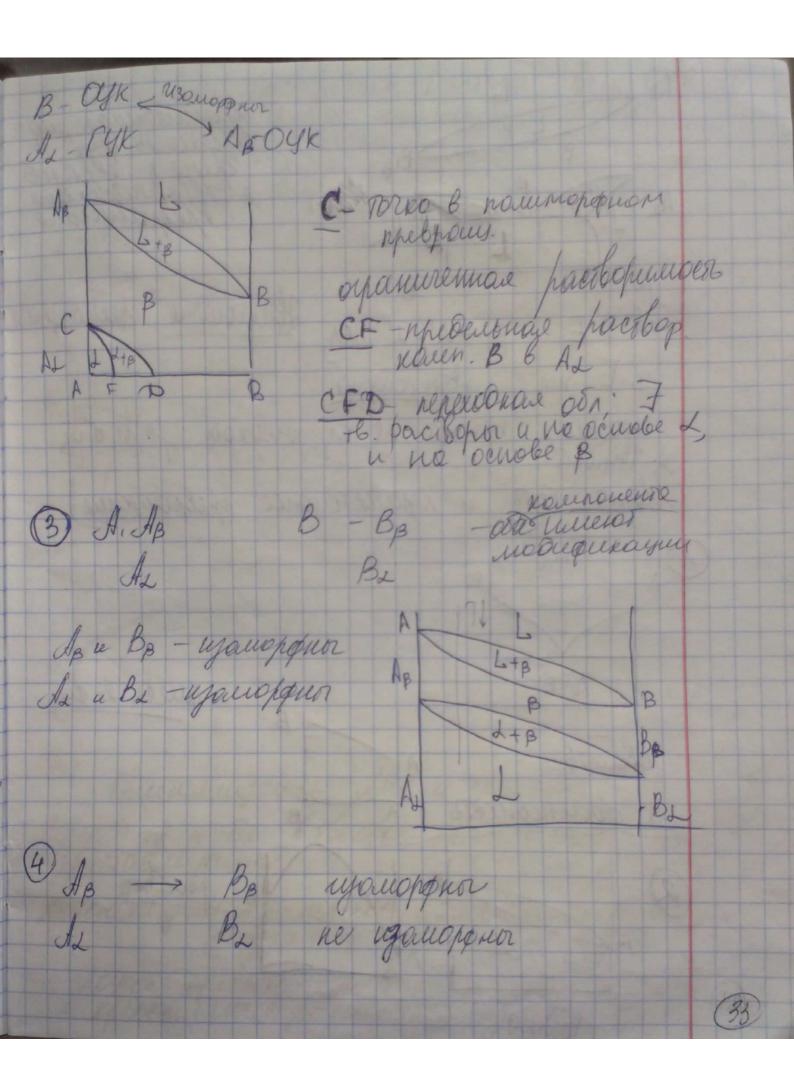
Cold A AnBon B My The Am parenoid we stroke ever the days

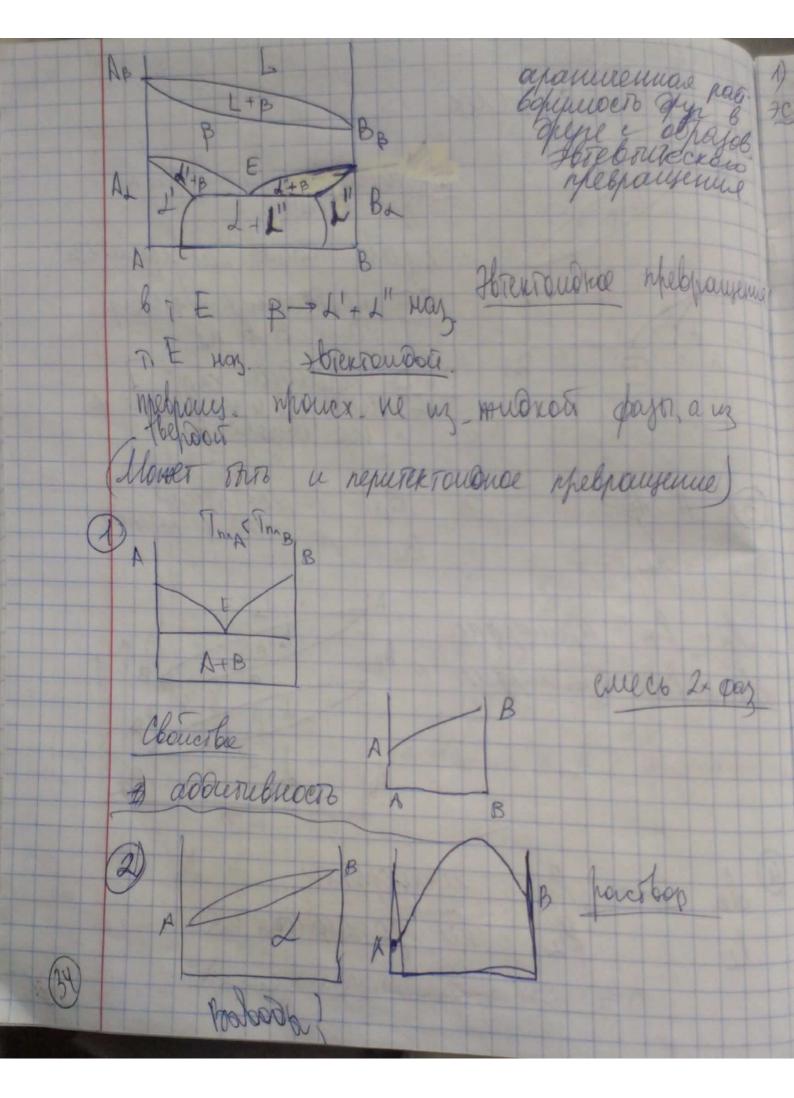
U middle followed and records











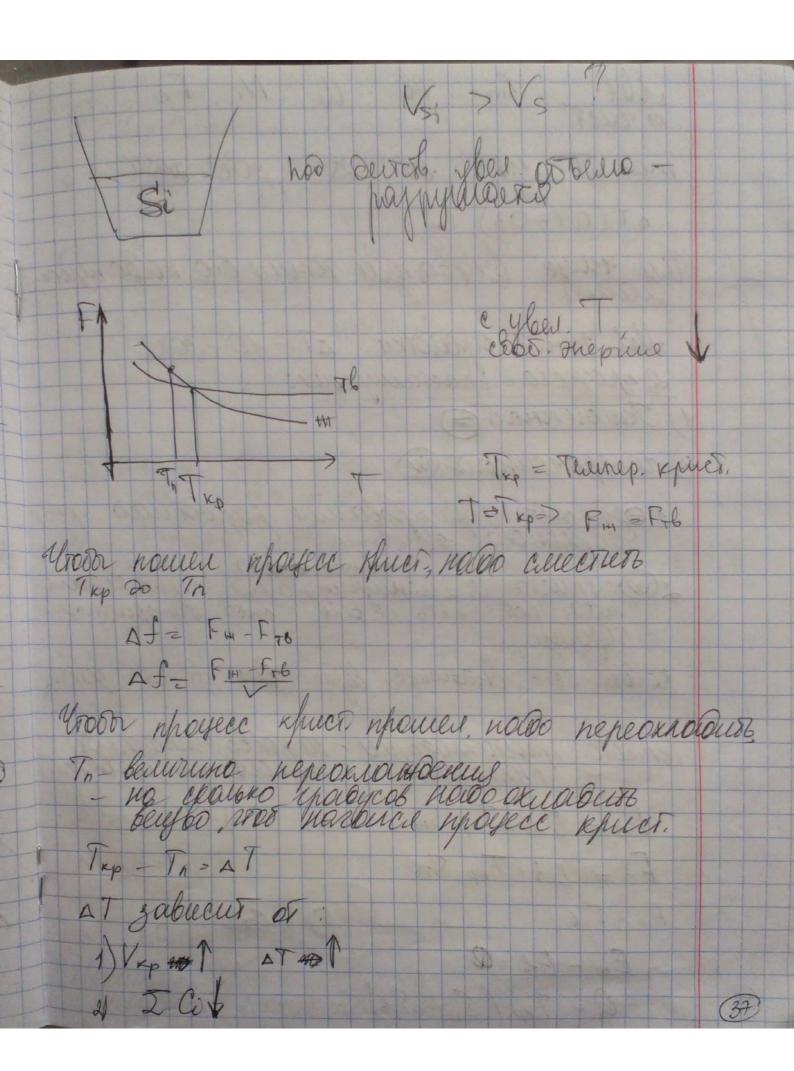
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ON HUAGA A= ruci bey60 Pd 78a 6,76A Khucranungayun Met u canabob 7.12. 2012 Apresableyaques & Thepare upagecs, class c Muliounifacion - nepero 6 Therefore bays. hoyece nhebraces blue to us in all ray orgon 35

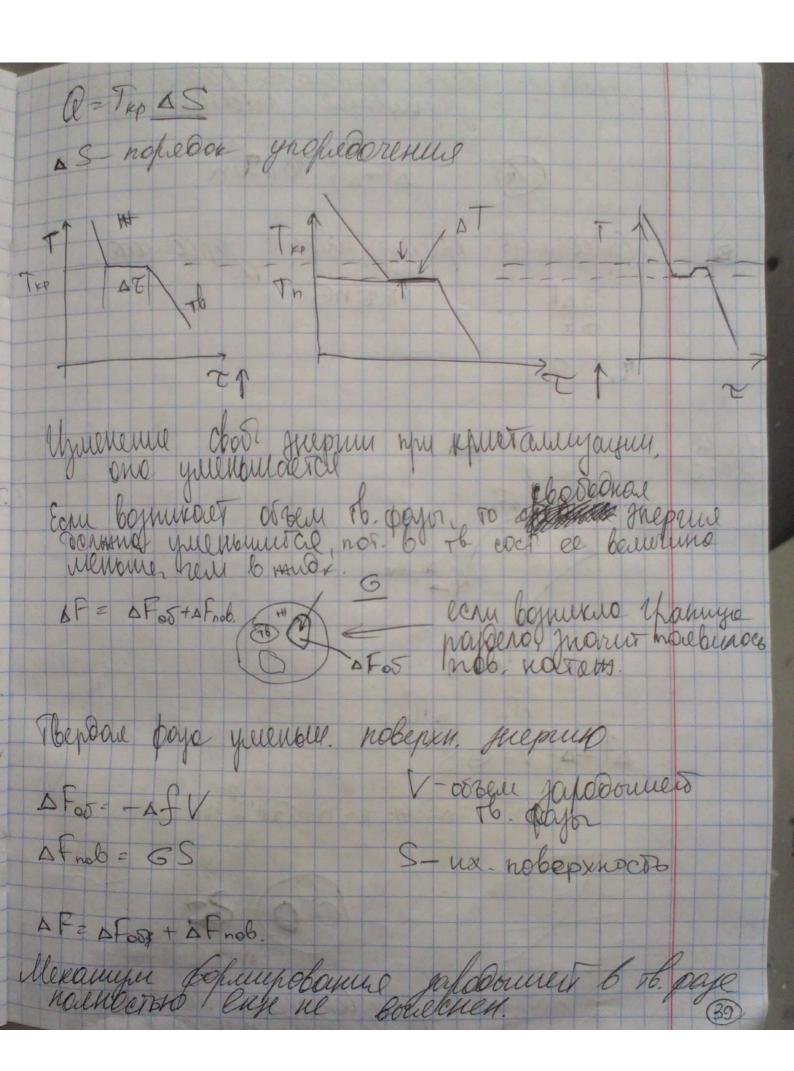
виконой укластия аганов/розпирований ко - repliernas refueramenzaques 6 mueras Emphirmas khucraulugaistul

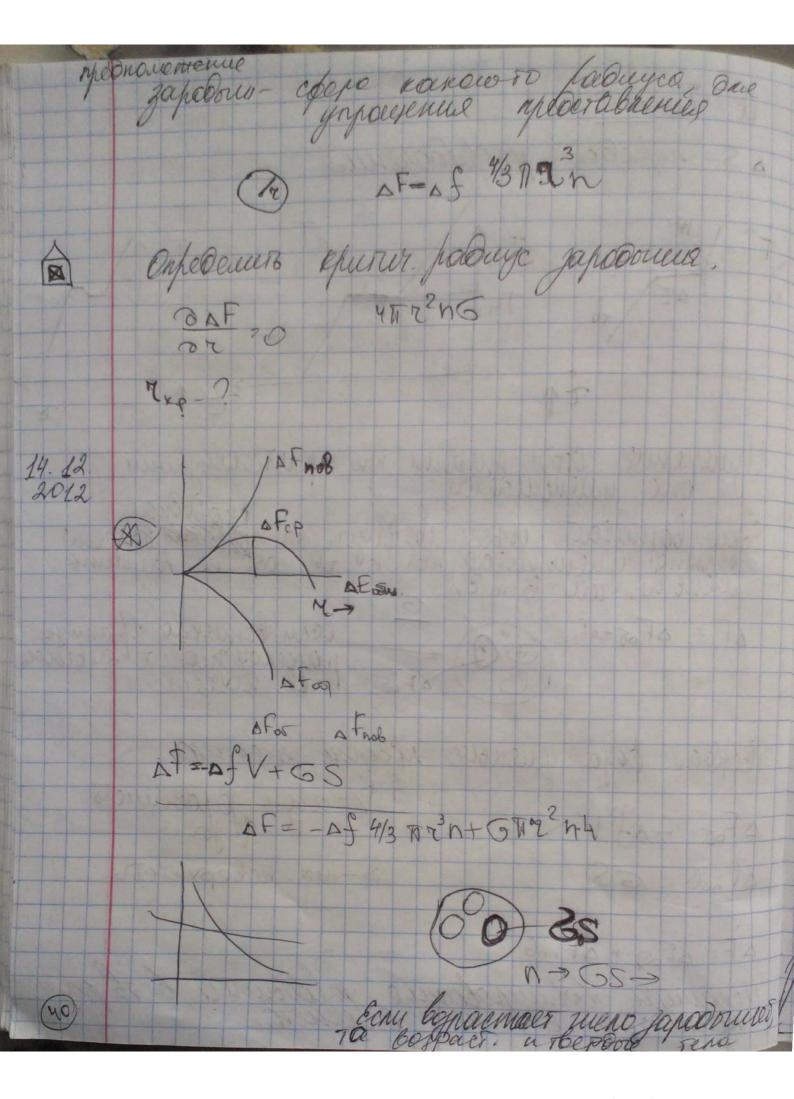
Exposecc, chej c neperpulcionalingaequeix Met, 6)

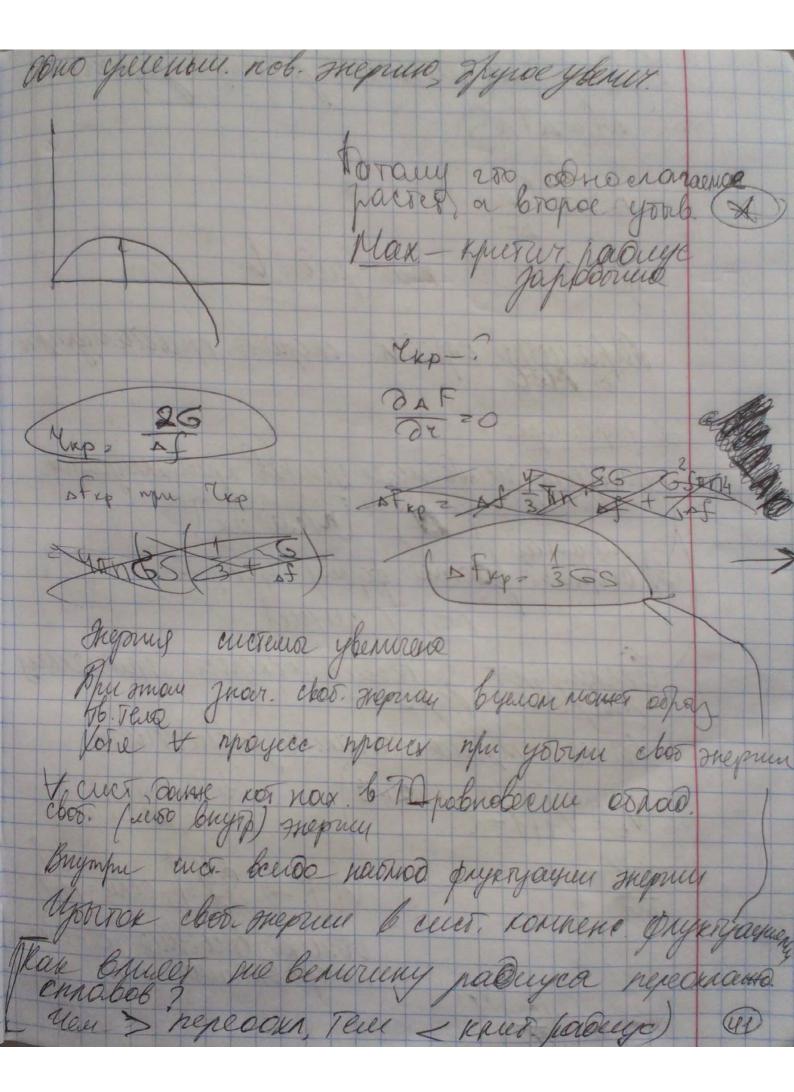
(22) abussyryadae ceene spier thet elodoù moyece beerde nporeraer roude, roude npour G=E-75 +PV p < 10° at PV- manse F= t-15 E-brysp Frepring S- Inspionine T- Terrin. Thu sarbepaebannen, llet ynnenous.
gdenouvier odben V 2-870 ebout Si Ge, Bi Ga, role nou injerêde us (4) b(b)
yolubrionis observe yberur
veronibuse
oberous oak whommus cocroser one whenever Si -> ruct -> monorpuct. And nongrenul Torrow Si, To > (1+) -(7) (36)



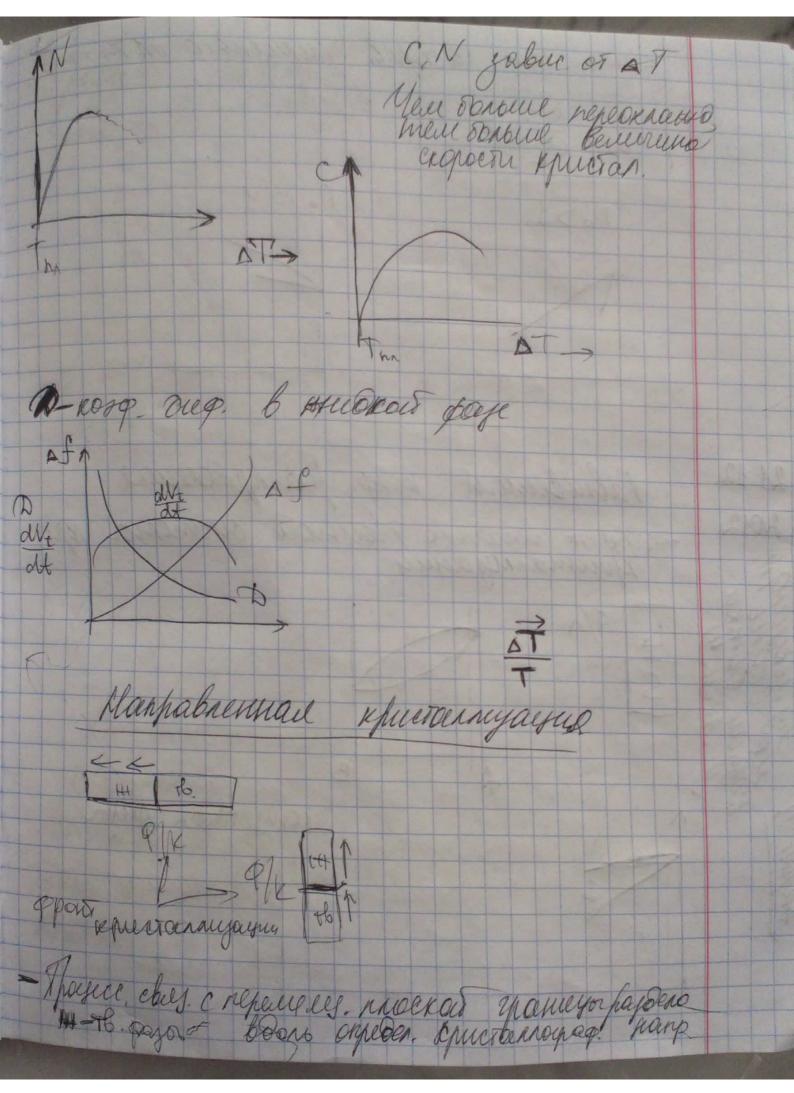
Met Sn Pb au Ni Fe max 27 118°C 80°C 250°C 30°C 295°C DT=(0,1203) Tma Men ruye benjog rem Drome ew norde repeat Met Textury apartorka st = 10 +30°C. 2 процессо вристамирации: 1) Tauoreservores (=) 2) resepo remons (V) 1. Да стех формирерование зародония крис. 200- Epileran-il, nomingrepyenare apullenorman doso ecos beer moso Emplernorman dasoniu Koide ecto businese Egideerciber to remen ghienny Tennoso represormigações - 10 montos rennosos, ros nomeros que mabientes FAM = EM + TEP SH F16 = E18 + Txp 516 Fm = F76 E++ - E+6 = @ Q = TKP (SH - S.6) (38)



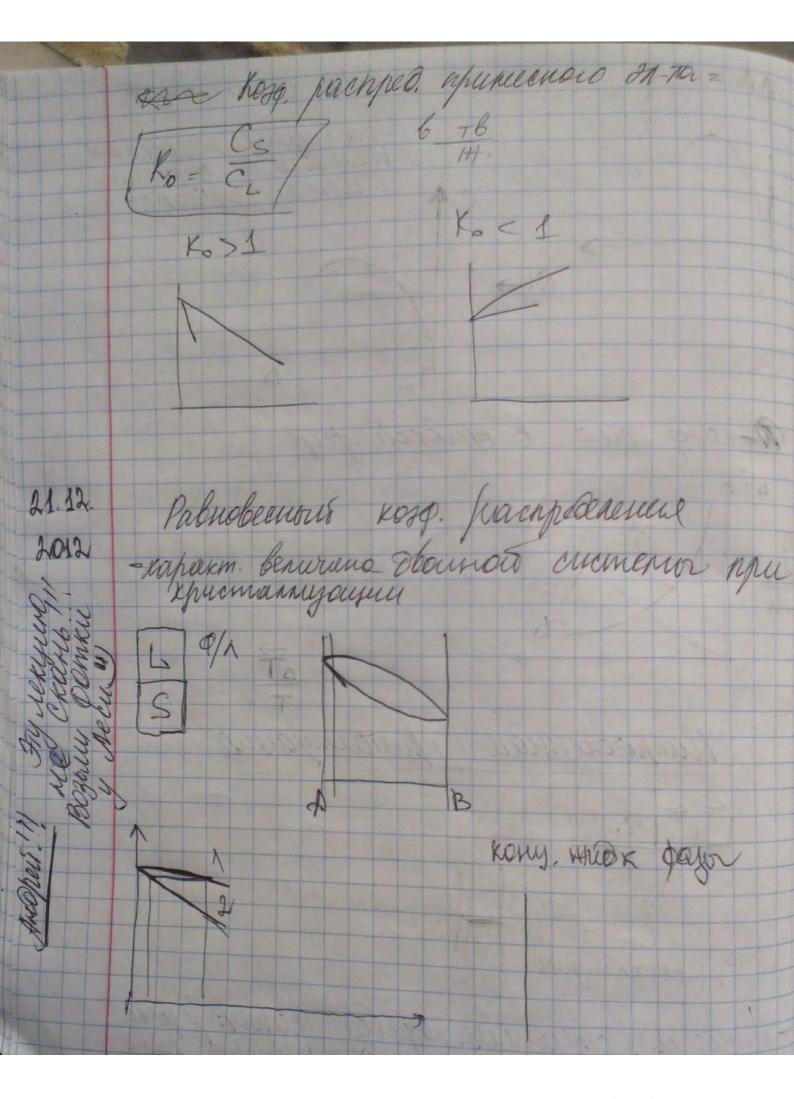




bydem un memero paduje japodomo af-ATAS AS=Q if 71, 10 kms. pao. 1 вараневро, определ скоросо кристамуници I rapamega: (Докорост зарождения умиров криетамуации 2) exploers poemo dopuno yentipol. Реглинуро и обым искорост рисками Бале строиле анания зависимости VE = V4/1-1 1/3123 NH + 6 peng 1 00 blus V+ 1 = dt / ecnu NT ne chabnemus c N d= 1.1/c/3/4



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tim blems Hu ests nounces B, one patron no severy touso me organicip me meno, Co-kousers p npienerion Norumoun executabass $C_5 \neq C_0$ to spagece spurean pouex repeparaped. painped nherelect & 14 wor page 6 moyerce x < 60 1 (1=6 (S= X) CL2 So X>C0 Cs = V Conjeup 16 pajor = Cs = Ko Co HONY. 6 HELDE Page - G2 Co/ko

9/N h-> Kance Oyolm repensenged how palnob yerdun houngeeir no 9x Koll - orhown benerung norg pacaper can nem repenseus. It so b fabrich coes-un Скоросов перешену. Фронто крист BES B->L Thineco emmecuserce & mick pagy Hax one offen cetre blere no PL Robb, imosor maneus despression nome med somucion check poorary upune 21-To Eligym of bedien nounce

L'amor chance min, a santice bepuerce K 1 - OSBEDUH. CNOW Ko + (Flo) e - vo/s De Benur - Orbinary Corred Janos day ecm - VS > 0,00 Keff -> Knowburb. So Jonom gracrox nado grair re Lemerhac Jaemoper bruerougue un palnob vorp pachres.

1) ma obbe cuerron AB
Trabhenue mennome eneutenus, surpony
eneutenus merromo prabremy 2) xunemuro nosecció nos QX uzner. 8 Inscerce a 6 peanonom 3 Popma PK Memour onpederences paber, koso repeparap

1) Thatweether (us of C) universage eco зарактерия ибеальным поведением ln ko = Almab / Inn, A Trong You only chan 20th aux