\angle elektronegativita $Pb + O_2 \longrightarrow PbO$ foron na ot. c. N -> Mg 2 Si (silicio foreonaly)

- pour to prohy malo realtime (kome Sn), store pour
kovalentné. KREMIK-Si (20l. fapers) GERMANIUM-Ge Vrakný pivel, plokov sede Barný, polovodic nenual - germanit méneral - germanit výsba redukci: GeO2 + 2C -> Ge + 2CO minual - germanic $GeO_2 + EC$ Njoba redukci: $GeO_2 + EC$ Njoba redukci: $GeO_2 + EC$ Septiming: $AH_2 \longrightarrow GERHANP$: Gem H2n+2Septiming: $AH_2 \longrightarrow GERHANP$: Gem H2n+2 Ge Hy - monograman (Ppm) $Ge Hy - H - GeO_2 + H_2GeO_3 + GeCly; GeFy$ Geogram H2n+2 Geogram H2nLake the same and a late of the same of th

KREHIK (SILICIUM) Si foure ve slouienerach - 2. nejrozi. prvek (27%) sem kury (po kysliku)
3. si al SiO2 = <u>kremen + adrudy</u>: kristal (bestarny)

+ reliantly mnizorci (protei)

- re horizek

amo infine:

Ofaly, chalcedony jaspisy, onyk, fasourek

bio mi pistance:

Aliver and hole- shire amalibal kiemicitary: oliven, ortoplas, slidy, amfibal Miprava: 35102 + 4al - 351 + 2 al 203-> (aluminosermel) SiO2 + 20 -> Si +200 repoba:

(102 + 2Mg -) Si + 2Hg0

(redulce) SiO2 + 2Mg -) Si + 2Zhelez

Siely + 22n - Si + 2Zhelez

Siely + 22n - Si + 2Zhelez

Nekov hedy až eerny, hvidy, knihky, malo reaktione

vlastnosti: nekov (slihina s Fe) do oceli

hastid kiemeku KARBORUNDUM (slove. AC) SiC = karbid krimiker (brusny maker)

11 Ailikora" flie. FERROSILICIUM (slihna s Fe) do oceli Mastrosti: (brusny makerial) ~ diamanter bordothi Manam: SLOVEENINY SI morosilan Pi H4 } plyn di -11- Siz H6 sH -> Silany, Sin Han +2 Mi -11- Si3 H8 - Kap. uakhime' -> vanetleve va voduchu. s 0 -> Re. SiO2 (premen)-HODIFIKACE: Aestereeny kienen 870°C, TRIDYHIT (Elvereeny)

(nejotalejii)

(Rosock)

(Rosock)

(Elvereeny)

(Closereny)

(Closereny)

A kypelinami - fouse s kys. HF: SiO₂ + 6HF-> H₂SiF + 2H₂C as lucavkou kiae (smis Hee + HNO₃) tavenim & alkal. Rydiotidy: SiO2 + NaOH-> NazSiO3 + H2O kremicilary ach. kover pou ve voite rospustne, olalne ne. Nodry O ach krimicitanei = VODA i SKLO - konservovane vajec SiOz + Nazcoz - NazSiOz + COz - impregnase Njenam SiO2: nacty, belony, výroba skla, glazur forcelanu; výroba laboratorného skla skolanivaty, silékony, 1) SiO2. n H20 (hydratovany SiO2) , synkhicky granulat Silikagel = gel k. kremicile (besvody SiO2) - modry

b summi latek - no nasycené vodou > reisory

(v exsikátorech) pokleorání vekkosti (mestale' = slabe' H25103 2) H4 Si 04 3) H 2 Si2 05 STAUBA KREMICITANU

Stove sedroskou je chyroten SiO4

(teliaedr) spojevaném ofistemie -> ruízne spy kiemicitanie SILIKONY = Jolgmerni SKLARSKY PRUMYSL rosery, semene, valuocy v medicine, florer valuoly. skio: Olounate' 760 cervene' au modre' Co Jelene Ct., oloval listal Pb304 (sunk) 2960. P602

SW = Cin - STANNUM us ve staroreku, kov kriboleskly, takny, valcovaklny -= STANIOL i mineral cenovec = Rasilerit = SEO2 modifilsee: 1) Etoereory fod 13°C (2) sedy cen (Righlows.)

Prechod soustor je pireinou rotodu cenajch predmehic

v miseich. Ter u sedy mor Faliaten chec. Sa ra = 160° - 3. Boroct Sa. whole redukce: Salz +2C -> Sa + 2CO Je & prolu W. Rl. nejreakternejse vjenam: Brown (Cu + Sn), fajka (Sn + Pb)

Wooden kon (Sn + Pb + Bi + Ca.) Stoucening: s Hz -> SnH4 = Stannan-jea. Flyn II, TV Hz SnO3 = SnO2. HEO slaba + Spo, Sp (04)2; for Cl2: 1 for S1. Sn 80 4

Sp (NO3)2, Sn Cl4, Sp 32 = cenary bone - slacene tame. lesky slibrosey kov, kujný, mekky minerál, PbS = galnit
odolny proli kohori.

2 Dh C 1 20 2 Dh 2 vyloba: 2 PbS + 302 -> 2PbO + 2SQT (prasiere galenelle na sted) redulce: Pb0 + C -> Pb+ Co Blourening - per! - vlev na kner obrak, NS, ceruy, Laicinogene to (C2H5)4 Pb = teliaetheloloro (dine katalyanti do spaloracith motorie) Pb3 04 = 2Pb0. Pb02 = surile, (barry, natery), fisada do
Pb3 04 = 2Pb0. Pb02 = surile, (barry, natery), fisada do
Oconaleko kristale - slahny Nizbor
PbH4 = flumban (pid. Apr.)

anorfri, pid alunusla brone "Vany
t daln' soli: PbS 1 PbC14, Pb (103)2...

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t daln' soli: PbS 1 PbC14, Pb (103)2... readioakt. Zarene