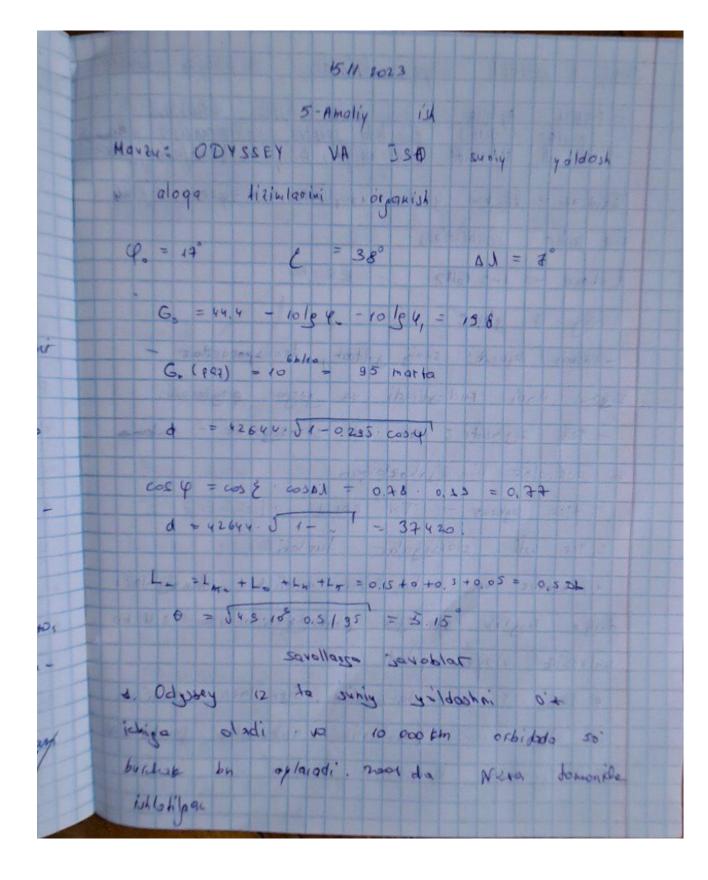
08.11. 2023 4- Amoliy wh kop stvoli suniy yo'ldoshli alogani fashkil gilishni orpanish. Licoploy pixus illoute got speepen nobles inspired Like little intepola Val Jeinsgrö inkennyeste variout 5 Berilan: B = 1444 46i+1s, R=05 &=06i+1 (s. 1/2) d = 30 000 cm 1 B = B+ +P+ Bis 71544 B = 36 xbit/s B = ochitls Bri = 1444 +0 - 1444 Hills 2 BL - Air /R BL = 1444 /05 = 2 EKR +6i+/s 3 B .. = B . / 10g2 M M= 1 B+ + 2888 /1982 4 = 1444 x bills 4 TIS = Bry (1+4) = 1.444 (1+0) = 1444 HZ -1.4447

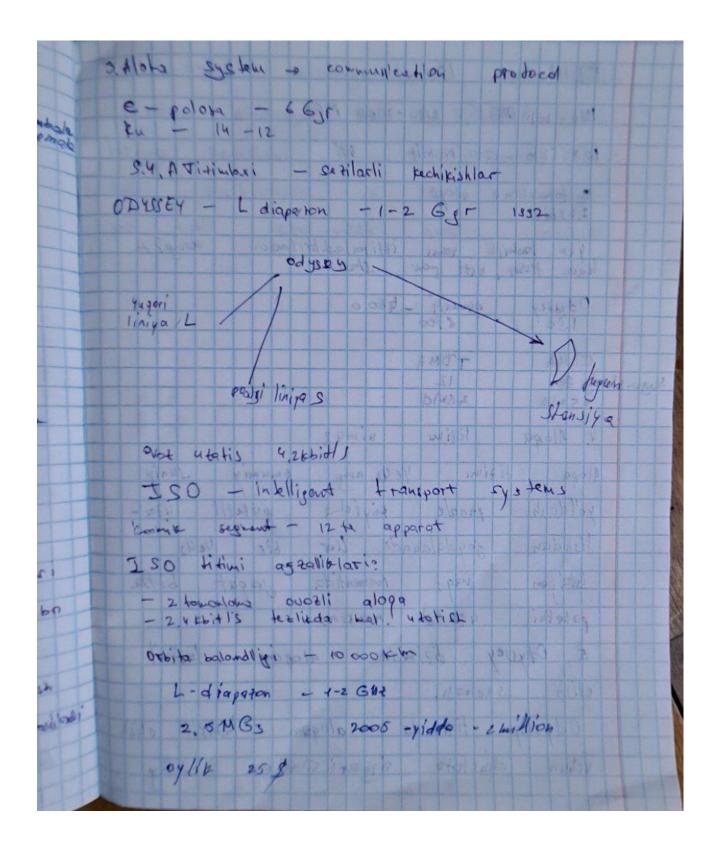
5. 77 = (1 1. 13) . 7 TT, = 12 - 1444 = 1203, 3 Hz = 1,2 KHZ E Lyon = Lan + Lyon + Ln + La 1 gin = 015 + 0+0,3 + 0,05 + 0,5 dB 7. Lo = 20 log ((47 d)/4), db Le = 20 lap (4 3 14 . 30 000 · 103) / 21.44 · 107) = = 20 100 (1757 109) = 20. 10.24 = 204. 9 dB 5. 1 = 1 = + Lgish L = 204.3 + 05 = 205.4 4B a - bigin upunliel -an - quiblanishdagi yoqotishlar q - abra moda e - rod terligi Bro = xi2 hat alogati signal youth ighted Brie - First opininisi uzatish kelly in sit apolo deblot pruz - TAYE

1 2 usul orgali S. V. A. T Janada soudalost tintad? estories or oblight pirpried ketidro kebliop pinoztristigida yotadi. canal coor-opper irosh dinolog debloc vinuz toskil eladi. Civolanish taciki 1) 44 +2 Leorina - 1940 yillarda, Sputnik 1 - Sovet willon tomonidan ornahilgan 1957-yillorda, GRS (Global) Positioning System) 190-1880 : Birinchi Larbiy Lagradarda istleb chiqilgan bolade, kyin nagigatiya un ound while tidi. Digital communication -> analog to digital communication & TV brand roshing in interest survice 2. to's satriculari 2 may 18 + orbito turi . I Geostotsionarny orbito - 35 000 km ripose - commication, weather, observation 2 polar 2 chostole diapatoni - a band, to-band, to-band 4 Arkne howing the Art of the Arkne Arkne Soni, soutostut, orbita turbari, turbh xuglesi Eng makini -> Kop stansiyali ulanih furi signallarav birlashfirish un istlatiledi

Siphallar chastota, vagt ve shatt bogicha girally dypless gloga a - andema 2 - Kuchay hirsich 4 - signal quicking Jilhir 5. signal girutuh konal hon'l e gilid bojlash. 3. top strolli gabul / gilish 47alish Yesyning Jutilish sxemosini luhumtiring Duples aloga uduin moljallangan va bi hedra yesy strollacida ishlaydijor yer whi stansiyalari quyidapichu ? Odaldo uzglking orida gudul gilih va aralish wamn bir isllahiladipon youal-Hisyochi tompledi antenna, gabul gilish us usatish giratish filtri 124 shorginli Fuctory hispichlar un hopen 4. tomik slausija rejamilyator va lan-tigihlari - energiya fomizoti manbalari andunalar va 94yash basareya ardan



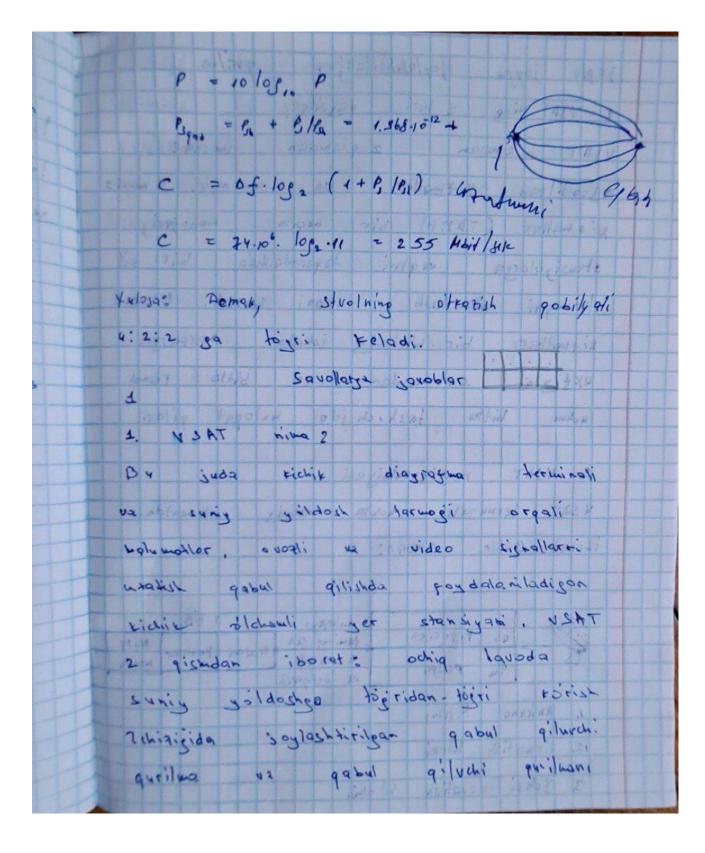
Suriy yoldalli aloga litimlari 3 qishdan ibarq - pamie remark loyilalash othifani hisoblash
- pamie remark loyilalash spektri, interperensiya ma
- sipholar gismi chos to ha spektri, interperensiya ma
- yet ash septeent contrulsiye, as, malplesslash see Iridium + 780 km yerdan utoglikda, strenger tijbey and juster connections L-band - 1-2 GH2 15081 3 9WH : - toshik seprent: suning joldoch, transporderlar signal oladi tudostirudi va yerpa qoytaradi. - Yes segmenti: Yet ushi stansiyalar - onkuna republication and telephone in - User segment - TV gabul gilvehilar 2. Yer with storijoster fur leti 1 Kuzatuve va malumottari uzatish stanjy vlori of U.E en noghester Higgorts delice entre ibelip spelo sidalku 2 Suning Y Yet starting alari. Signa Warni gabotish us olich un parabolik andmeden fogdeledet 3 Hissiyalarni boshqorish marqti

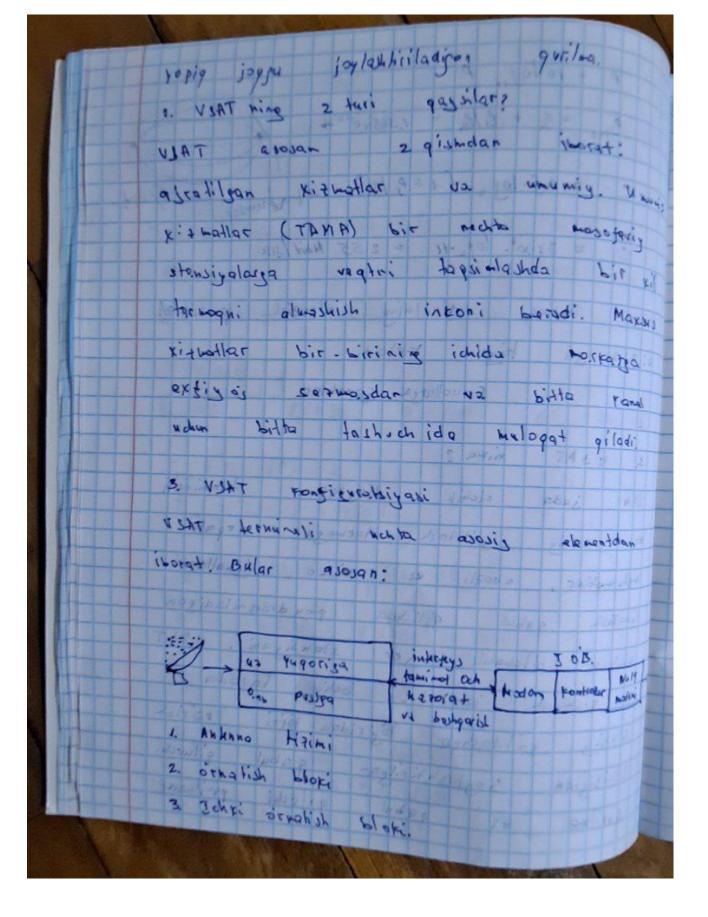


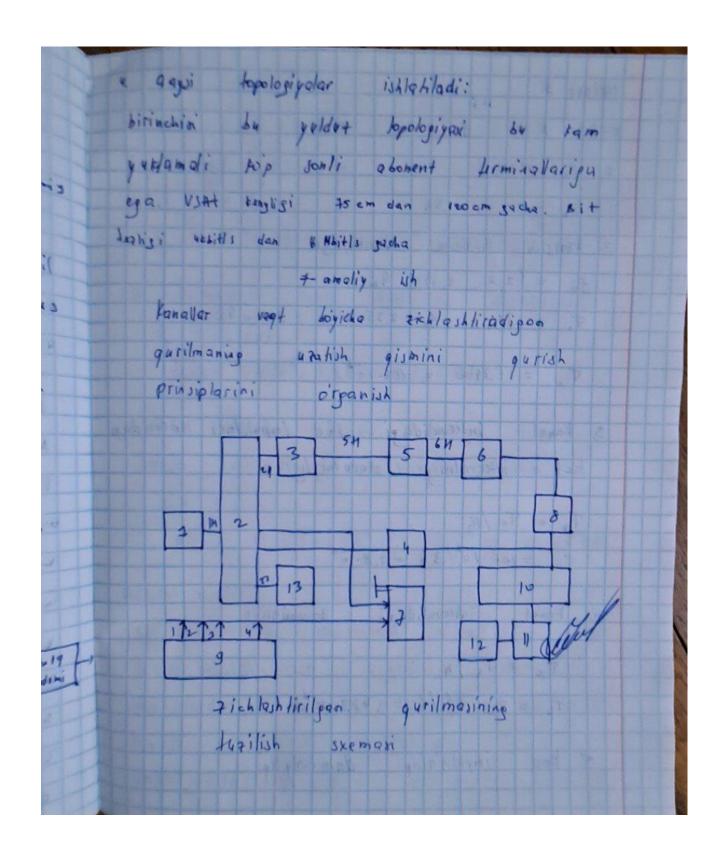
TONA do	150
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Odysky 130 -	quuati - 460 0
COMA Leyenstonia 7	TDMA 12
4. Aloqu	lizimi nimaz
Alopa J	izimi Yell ning ununiy suniy
yo'ldosh dishdan	parale toyicha patetli uta-
	Joydalauadi Uar bir yeus wagt momentido. Jagat bith
PORTAL	470 fish mention
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achun a	tipimida alogoni lashkil elish chastoto o'tgarti tiladi on oddiy
1	To at to tiladion adding

" the Dis" extendented into paint pitda ktilmajdi. Retranslyatodarda ignallarning keditishi susdan oshbaydi. Kader locai mashrutlesh va ishbu borish ser udi etanzisalda amalga oshiriladi. 29.1127 

VSAT yer usti sten siyalarni
prinsiplarini o'reanish ites sor THOV shoeper reble stemiyalari queich mexonitulari Princi sloriai tadqiq qilish 3- veriant Fa = 6 7 = 70 4 - 0.95 1 5 m = 34 -10 Tans = 78 · ( + m - 1) · k Tgas = 290.5 = 1450 E TE = Tn +Ts. ((1-4)/4) + Tgan /4 7 = 70 + 250 - + 1526 = 1611 PSL = K. TE . Ly = 1.38.10 = 3.1611 . 74. = 1.64.10" Pan ki 20% ga oghisamit Pan = 1.64.1512. 1.2 = 1,965.1512







variant 5 N=32 N=4 5=1000H2 N=6 1. No - N +Ng N. + 32 Hy > 36 2. Uzotsich siklining davomigligt fo = (2,3 ... 2, v) f 1/2 T. = 1/3. 5 = 2.35 . 4000 = 2 400 42 T. = 1/3900 = 106.106 s 3. Kanal intervalidaçi kod impulstari oras takt intervalning davo migligi Tx = To /N. Th = 106.104/36 = 2.3.106 4. Formal intervalidagi davomiyligi Tx FT. In Th = 2.3.156/6 = 0.483.104 5 Food impulsing dam only light

T = 0.5. T T = 0.5 0.483 .106 = 0,742.1065 6. Chi rigli sighalning fort dostation  $f_{+} = n \cdot N_{0} \cdot f_{0}$   $f_{+} = 6.36.3400 = 2.03.10^{6} = 2.03 \text{ M Hz}$ 7. Boshgaruv kanal impulsiting daromiyligi t, = T. /4No ty = 106.10 / 4.36 = 0.736.16 g esidagi 8. IEM 479 bish tizimi diiziqli tractoing lolob giliadigos otratila polosasi 11= 20 15 = 1) 0.242.106 = 4.13.106 hz = 1.111 MHZ rolloyde torospin 1. Sisktilash ohastotasi gimo? Interpolatsiyalash signalai naumiy sanoglardan gayta litlashning on masuligatli murakkab operatijyeni sitatida 1923-yilda sanoqlar traiquesi yoti

toleranier teolomelari isbodi paydo bolimi bilan peterli darajada dijailyan ilmij fortisherlar ildizing oga. Bu chaptangan sertion ego signalning distrationshirish chastotanni tanlashni asoslogoli. 2. O Taggig gilinadigan materdo. gandey distritleshfirish chastotosi tealon adi? instated disiffeotistib inimitit ppola bojiche optimallash tisish va bu bilan biga unga talab gilinadigan samatydotlikka, moralom, lastik bóyicha one yaxshi tejamporlipni berich mumais Standard Leletonica udmin F = 7.4 km2 va F, Z 2F = 6.8 FNZ boladi