114/2016 Howeverk #8- Stellas Und the Rest of the Certification of the Rest of the R RG=2MA, Roz=1MA, Rg=200L2 fg= 10Hz Wa= (Ca) (Roy + Rin) Vy - Carller)

RM = 2M1.1Ml = 0.667 MPL

JC1= 2M(CC1)(866-67KN) = WHZ

CC1 = 7M(10H2)(866.67KM = 18.9 AF

Navo: 10

Moreur #8 - Solohu 2

14 14/2016 Wan Protects.

(10.5°

3m = 2malu

$$\mathbb{A}$$

$$\frac{V_0}{V_1} = -3mR_0 = -2mA/V \cdot R_0 = -2ov/V$$

$$\frac{1}{10} = -2ov/V = 100$$

$$\frac{1}{10} = -2ov/V = 100$$

$$C_S = \frac{1}{2M \cdot 450 \cdot k0} = 3.53 \times 60^6 F$$
 $\frac{1}{3} = 500 \Omega$

10=45km (sm/12,)=4501

12= 10.02 HZ

: Jp= JL = 100H7 Jp >> /2. 20 V/V = rodb/decade 100H3 42=6Hz DC gain (W->0) (s->grey. Vo = - Swasuss. Ro V = +gmuss (Rs + gm) - 3/4-V8/5 Ro + 5m ys (Ps+ fn) Ro - 2lox = 2 lox = 2

...

3)11/14/2016 Hw#8 Sulchus_3 Disoete CS. aplifrer. hour Puchado RG=2MA, 8m= SmAlv 10=100KR Rp=20KR Css=3pF PSig = SOOLDE A ROCE VO PSig = SOOLDE A ROCE VO PSig = SOOLDE A ROCE VO PROCE PROCE PROCE VO PROCE PROCE PROCE VO PROCE PROCE PROCE PROCE VO PROCE PROCE PROCE PROCE PROCE VO PROCE P small-skul at Voy to Ro Juss v Fro Jus Overall gent = Vo = V35 Vs Usig Usig Usig Vo=-gm. V35. (ro//Ro//RL) Vos= Vsig. Re+Rsiz Am = (1/8 / 2012) (-9m. v35 (10/120/12) V51/4 (1/8)

$$A_{M} = \left(\frac{R_{G}}{R_{G} + R_{Sig}}\right) \left(-\frac{gm(R_{O}||r_{O}||R_{L})}{R_{O}||R_{O}||R_{L}}\right)$$

$$R_{O} = 2MR$$

$$R_{O} = 30 k\Omega$$

$$R_{O} = 10 k\Omega$$

$$R_{O} = 10 k\Omega$$

$$R_{O} = 10 k\Omega$$

$$R_{L} = 10 k\Omega$$

(b) JH

$$V_{Sig} = Stock$$
 $V_{Sig} = Stock$
 $V_{Sig} = C_{M} = C_{Sol}(1+g_{M}le_{g})$
 $V_{Sig} = C_{M} = C_{Sol}(1+g_{M}le_{g})$

Transmission zero at was son Cod.

Hw-8-Sulhar-4

4) Ivan Puchados 4/14/2016

10.34

OB HITH Q2

OBSING PRINT PONO

VIS TO THE Q2

Csd = 0-015 pF

Small-sipul soon at wid-freq

Vsy + 0 185 (0) Junios 300, 702

Vo = -9m. V35. (0.1102)

Vo = -9m. V35. (0.1102)

Sunday

Sun

gm=V2mlox(w)20,
gm=V2×90mlv2·160·100ml
gm=6325m5
1.06 mA/v

ro1= VA = 128V=120ker

PO = 192 = 192 KA

15-8 - Sm (Poilloz) 76-8km 15-9 - 81.4 V/V

一多

-> Migh-frequency analysis:

Cod = 0.015pF

CSS = 0.2 pF

3m = 106 mA/V

nej=(102/101)

=76.8K2

Roy = 20062

CM=0.015pF(1+814)

Cm=1.236 pF