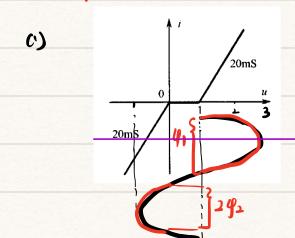
## 7074松非线电牙0季环业笼泵

1) 
$$g_{11} = \frac{d^2}{du} |_{u=u_0+u_1\omega_0 sw_1 t} = (3 + 16u + 0.6u^2) |_{u=0.\tilde{1}+2\omega_0 sw_1 t} t$$
  
 $= 3 + 1.6 (0.\tilde{5}+2\omega_0 sw_1 t) + 0.6 (0.\tilde{5}+2\omega_0 sw_1 t)^2$   
 $= 5.95 + 4.4 \omega_0 sw_1 t + 2\omega_0 s^2 w_0 t$ 

(2) 
$$g_{11} = \frac{d^{2}}{du} \Big|_{u=u_{0}+u_{1}\cos u_{1}} = (3+1-bu+0-bu^{2})\Big|_{u=2u_{0}+u_{1}}$$
  
=  $3+\frac{1-b\times2u_{0}+u_{1}}{2u_{0}+u_{1}} + 0-b\times4u_{0}+u_{1}$ 

## 7.2 第二年 平野 2:11

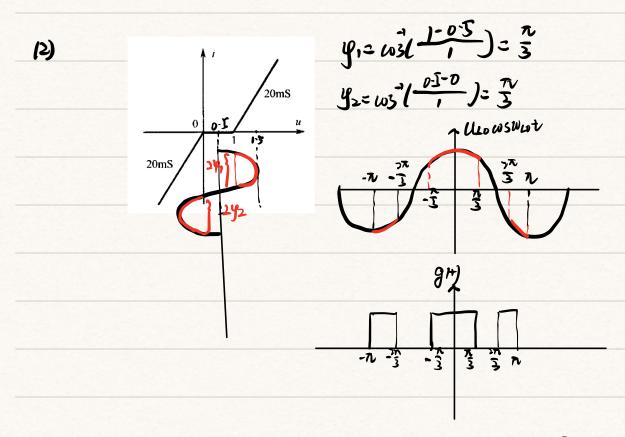


$$y_{2} = \cos^{2}\left(\frac{u_{1}-u_{R}}{u_{1}}\right) = \cos^{2}\left(\frac{1-1}{2}\right) = \frac{\pi}{2}$$

$$y_{2} = \cos^{2}\left(\frac{1-0}{2}\right) = \frac{\pi}{2}$$

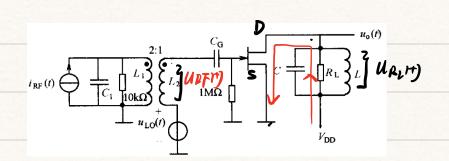
$$u_{10} = u_{2} = u_{2}$$

所入在 (九、川内 gm )死 [ -元, -笠] 
$$u$$
 [ 元, 元]  $u$  [  $u$ 



所从在(-17.7)内 3的只在[-7.7] IU[-3.5] U[3.7]上子(1)

$$g_{1}n_{1}=\frac{1}{\pi}\int_{-\pi}^{\pi}gh\cos w t dw t$$
  
 $=\frac{2}{\pi}\int_{0}^{\frac{\pi}{3}} 20 \cos \theta d\theta + \frac{\pi}{\pi}\int_{\frac{\pi}{3}}^{\frac{\pi}{3}} 20 \cos \theta d\theta$   
 $=\frac{40}{\pi}(\frac{15}{5}-0) + \frac{40}{\pi}(0-\frac{15}{5}) = 0$ 



才t中PPT >0~ xx

VDD= Worth + Upsm , Upsm)= tspm·P2 · Worth=-337MP2+VDD · LB 小 LB 小 LB 小 LB 中央 LB 小 LB 中央 LB 小 LB 中央 LB 中央

要及器 さいった ハン・ハン Uriux-ハ・ルン

upfm) = 1. 10ka. 20fm)= 0.1 as 6x106t(V)

(1)  $U_{10}m^{2} = 205W_{10}m$ ,  $U_{R}^{2} = U_{10}$   $\chi = \frac{U_{10}}{|VP|} = \frac{2}{4} \le 0.5 \text{ that } REER TR$   $\frac{1}{|VP|} = \frac{2}{4} \le 0.5 \text{ that } REER TR$   $\frac{1}{|VP|} = \frac{1085}{4V} \cdot \dot{\Sigma} = 2m5$ 

IIF = gells= 2ms. o-lv= 0.2mA

" uott= 12-0.2 mA \*10ka wsxx10t= 12-2005x10bt (v)

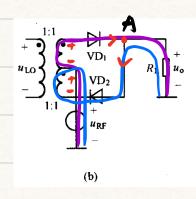
(2) (12011)= 505WLOT) .UB=-ULO

X= U20 = 至 > 0.1 个经子后

 $y = \omega^{\frac{2}{5}} \left( \frac{-4 - (-1)}{5} \right) = \omega^{\frac{2}{5}} \left( \frac{1}{5} \right) \approx 1.37 (rad)^{\frac{24}{5}}$ 

 $g_c = \frac{1055}{10pl} \cdot \frac{\phi - \sin\phi \omega s\phi}{n(1-\omega s\phi)}$ 

= 4mA . 1-37 - NF 15 . \$ 1.868 ms



以心正半局时、VOI, VOZ 时子局

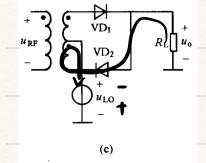
0-8 -2URF +240 + Rp (201-202)=0

A上市上中流 in -inz

$$\frac{1}{2} \ln = (201 - 202) P_L = \frac{21 \text{ UPF - U0}}{P_D} \cdot P_L$$

$$\frac{1}{2} \ln \frac{1}{2} = \frac{2PL}{P_D + 2PL} = \frac{21 \text{ UPF - U0}}{P_D} \cdot P_L$$

ULO负丰届时, VD1、VD2好不贵园、Ub ---



新た: Uom)= uotkt(wzot) + uo k (wzot) = Pz [uzo + urf (kiwzot) - k(wzot)]

7.16

- 12) fs=550HHz, fI=465HHz ·· f1=fs+fI=1015HHz

  Pf1+8fn=fI > 当P2+, 9=1日村, -f1+1480HHz=f1

  校该现象属于寄生成海干扰, fn=1480HHz. p=+, 9=1
- 13) fi=fs+fi= 1480HHz+ 46I HHz=1945FHz

  Pf1+9fn=fi 当产1,9=-2时,f1-2\*740FHZ=fi
  校该现象属于寄生成范干扰,fn=740FHZ.p=1,9=-2

7.19

fs= f10- f1f= 23mHz-3mHz= 20mHz 当 r22, S=1时, 2fm-fnz=20mHz=fs为于发三州 到阁 干扰