2074秘非线电子八季炉业港条

8-1 8-2 8-6 8-7 8-1010) 8-11 8-15 8-16

81

UFMITE UFACOS [Wot + mg sin wmt]

mg = DW = Kg Ua

由现在可知 kg= 270×123 rads.

 $\text{ (IFMH)= } IDUS \left\{ 2\pi \times 10^{6} t + \frac{2\pi \times 10^{3} \times 1}{3\pi \times 10^{5}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3} \times 3}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3}}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3}}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3}}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3}}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3}}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3}}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6} t) + \frac{2\pi \times 10^{3}}{3\pi \times 10^{3}} \sin(2\pi \times 10^{6}$

= 10005 270×10 + + 0-02 sin(270×105+) +3 sin(27 ×105+)

所名的 敬養多量力 2元2106+か、2元2105+か、2元2103 、加、カトラ、

8.2

1) BWAM= 2fm = 2-103=2KHZ

由额目已知 K=3KH=1V= 2T×3KH= =6T×103 rad/y.

UFMITE UFMCOS [Wot + mg sin wmt]

mg = DW = Kg Ua Wm

 $\frac{\text{mf} = \frac{6\pi \times 10^3 \text{ padly } \times 0^{-1}}{2\pi \times 10^3} = 0.3$

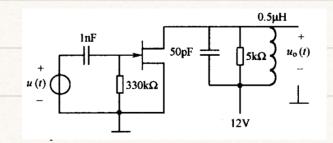
BWCR= 2 (Mg+1) fm= 2103+1) ×103= 2-6 KMZ

新上: BWAM= 21412, BWCR= 2-61412

$$mf' = \frac{3kHz \cdot 2\pi \times 20}{2\pi \times 10^3} = 60$$
, BWer= 2/mf+1) fm= 122 kHz

13) 调频163更强易实现大带的

81



EXD UM) = 465[108t+ 10 sin104] V . 53mf= 10

BW CR = 2 (Mf+1) fm= 2/10+1) ×104= 220 KHZ.

PLC 消息国路手 - 105 PF ×05,NM = 2×1842 > 1350 PF ×05,NM

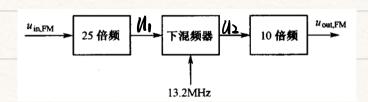
国政府压磨路 $UQ = -U_1$... $UGS H) = -4 + 4 \omega S \left[10^8 t + 10 S m_10^4 t \right] V$ 导版用 $y = \omega S \left(\frac{-4 \cdot t^4}{4} \right) = \frac{\pi}{2}$ $Ip = \frac{IpSS}{UB} U^2 (t + \omega S \phi)^2 = \frac{4mA}{16} \times 16^{\times 1} = 4mA$

同为felc=2=108HZ,fo=108HZ,故Plc 电路间降在中的频平时2倍频点。

(成员了启教电路) FM 随时语频 Wm 不是 Wm 不是 Wm 不是 Wm 不是 Wm 不是 Naw

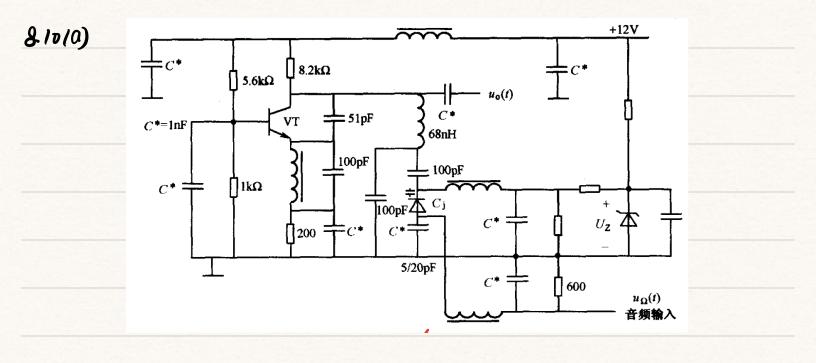
放 d2(4)=0753 IDZ= Ipd>14)=1mA

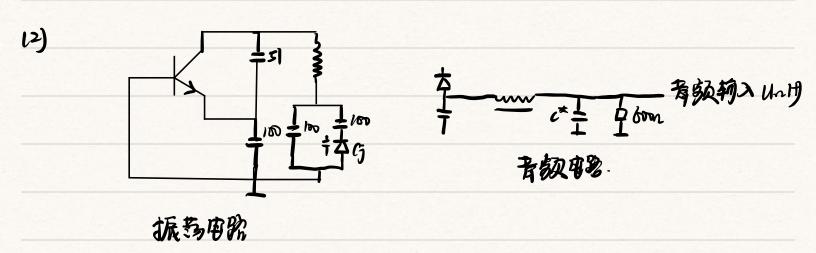
2) (1011)=12 - 202 Rz ws[2x18t+ 20sin10t]=12-3ws[2x108t+20sin10t](v)

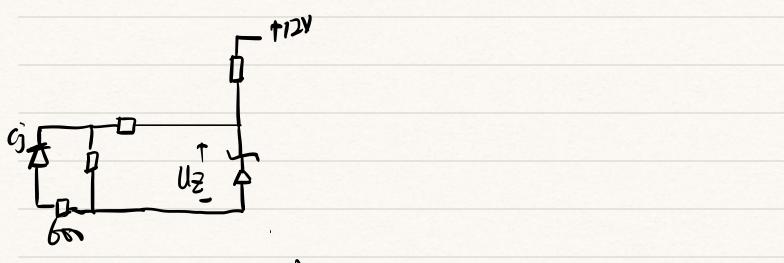


UFMH=UFMWS [Wot + AW Sot SIT) dt], Mf= AN Mm, fo=looking, Af=180Hz, fmi 2kHz
Fm 記憶筋同路 Wm 入意 FM 思な混動同路 WD → WI=WI ± WD AN → 入後 WM → 入後 WM → 入後

第2: $f_0 = 10 (13-2\mu H 2-75×100kH 2) = 10722H 2$ $af_m = 10×25×180H 2=45kH 2$ $m_f = \frac{af_m}{f_m} = \frac{45kH 2}{2kH 2} = 225$ $f_m = 2(m_f + 1)f_m = 2(27-5+1) × 2kH 2=94kH 2$

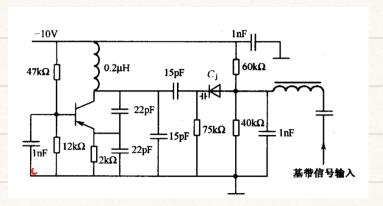






交易营直流)局置电路.

ppT 多密度直接调频



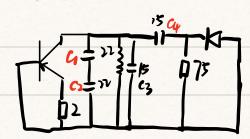
$$G = Go(1+\frac{Uc}{up})^{-1}$$

$$= 540(1+\frac{U}{vs})^{-15}$$

$$Up = 05$$

O CjAI 偏置电路.

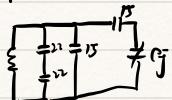
② 图数交流函路



$$C_{12} = G + G = 15 \times 20 = 50 \text{ pf}$$

$$C_{12} + G = \frac{15 \times 20}{15 + 20} = 7 \text{ pf}$$

最大额济 ANF DINO, DF IMY (AB)



$$C_2$$

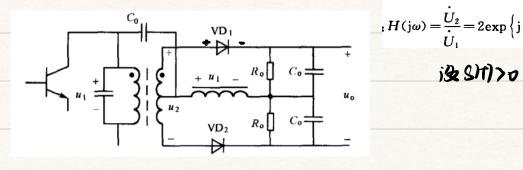
$$C_1 \neq C_j$$

$$A = \frac{C_{jQ}}{C_{jQ} + \frac{C_1 C_2}{C_1 + C_2}}$$

$$B = \frac{C_{jQ}}{C_{jQ} + C_2}$$

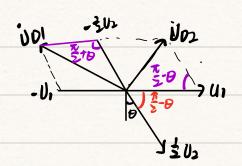
$$M = \frac{un}{uatup} = \frac{135 mv}{4v + 0.5v} = 0.03$$

见厂



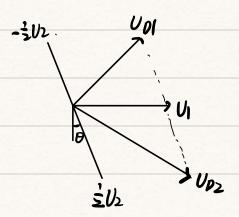
$$H(j\omega) = \frac{U_2}{\dot{U}_1} = 2\exp\left\{j\left[-\frac{\pi}{2} + \frac{\Delta\omega}{\alpha}s(t)\right]\right\}.$$

看加型相应鉴频器



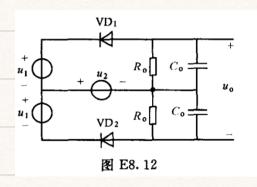
$$|UDI|^2 \wedge (\pm U2)^2 + U1^2 - 2U1 \cdot \pm U2 \cos(\pm t0) = \pm U1 \sqrt{1+\sin\theta} = \pm U1 (u3 \pm +\sin \pm)$$
 $|UD2|^2 \wedge U1^2 + (\pm U2)^2 - 2U1 \cdot \pm U2 \cos(\pm t0) = \pm U1 \sqrt{1-\sin\theta} = \pm U1 (u3 \pm -\sin \pm)$
 $|U0|^2 - |U0|^2 - |U0|^2 - \sqrt{15} U1 (u3 \pm 2 -\sin \pm)$
 $|U0|^2 - |U0|^2 - |U0|^2 - \sqrt{15} U1 (u3 \pm 2 -\sin \pm)$

\(Up1 = U1 - \frac{1}{2}U2 \)
\(Up2 \tilde{U}_1 + \frac{1}{2}U2 \)



同理1) 3 Un= 1Un|-1Un|=-冰5Usin= a 形山 ~ 的 版形卷数.

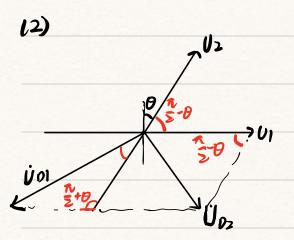
8.16



$$H(j\omega) = \frac{\dot{U}_2}{\dot{U}_1} = \exp\left\{j\left[\frac{\pi}{2} - \arctan\left(\frac{\omega - \omega_0}{\alpha}\right)\right]\right\}$$

$$\theta = \arctan\left(\frac{w-w_0}{\infty}\right)$$

1)
$$\begin{cases} \dot{v}_{01} = -\dot{v}_1 - \dot{v}_2 \\ \dot{v}_{02} = \dot{v}_1 - \dot{v}_2 \end{cases} = \alpha \operatorname{retan} \frac{\omega - \omega_0}{\alpha}$$



13) Up=
$$|UD| + |UD| = -2\sqrt{2} U \sin^2 \alpha - 2\sqrt{2} U \operatorname{arc+an}(\frac{\Delta u}{\alpha} s + 1) \approx -\sqrt{2} U \frac{\Delta u}{\alpha} s + 1$$