惯礼2-1 (1) 由集电报效子 1c= P > Po= Pa/no= 500/0.746 = 670.24 mW 由电流. (直流) 2/2 Po= Ico· Vcc ⇒ Ico= Po/Vcc= 670,24/=55.85mA 由輸出的率(多滴功率)Pn= i Ici·Rp \$ Ic1= g, (Oc) x Ico => g, (Oc) = Ic/Ico = 87.71 = 1.5703 查表可知 Oc=900 (*). Po. Vec不養、火」 Ieo = 55.85 不養.
(*). Po. Vec不養、火」 Ieo = 55.85 不養. R: Ic1 = 9, (60°). Ico = 1.80x 55.85 = 100.536 in A Icm= Ic1/01. (60) = 55.85/0.391 = 142.85 mA : Pa= = Ici · Rp = = x /00.536 x/30 = 0.65 W · · 1 = P~/Po = 0.65/67024 = 96.98% (3).调整0, 产种通过调整基极(b根) inov., 和 U. 这种传教 绝别。 Objex (Ub-Ubcoso)=Ion Take Ub $U_b = \frac{I_{cm}}{g_c(1 - c\sigma s\theta)} = \frac{742.85}{2000 \times (1 - \frac{1}{2})} = 0.14285 \text{ V}_{bb}$ 3 \$ V62- V66= U6 cos Q ZIPZ V66 Vbb = Vb2 = Ub cos 0 = 0.5 - 0.14285X = M. shr zee wit 这个理 = 0.428575 V

報礼 2-2.
4: 由 cos 0 =
$$\frac{V_{bz} - V_{bb}}{U_{bm}} = \frac{0.6 - (0.5)}{2.5} = 0.44$$

∴ 0 = 63.9° ≈ 64°

(a)
$$I_{c1} = I_{cm} \cdot \alpha_1(0) = 1.8 \times 0.410 = 0.738 A$$

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(4).
$$\eta_c = \frac{P_{\sim}}{P_{\circ}} = \frac{5.904}{7.5168} = 78.54$$

贈れ2-3.
(1) こ $\cos \theta = \frac{V_{b2} - V_{bb}}{V_{bm}} = \frac{0.6 - (-0.2)}{2} = 0.4$ (1) $\frac{1}{1} \cos \theta = \frac{0.6 - (-0.2)}{0.66.42} = 0.4$ 新出力子Pe== Ucm/Rp > Ucm=12RpPo=12x50x2 = 14,142(V) Ic1 = Ucm = 14.142 = 0.28284(A) Icm = Ic1/d1(0) = 0.2-8284/0.419 = 0.675 (4) 國电源我电对字 Ppc = Ico Vcc TO Ico = Icm - No (0) = 0,675 x0,239 = 0.161325 A .: PDC = 0.161325 x24= 3,8718 平电报效率 1 = Po = 2 = 51.66° (2)、判断敌大器20下状态的制括: - 福村 PP6. Pomin = (Voc-Vo) > Eces Pf 久在 = Ees Visit <Eces はFe. <Eces 未知: 図文字 Eces 未知: Icm/gcr = Fces gor dolls Comin = Voc-Vc > Icm/gor ATE. ·· 本级中: Vcc-Vc=24-14.142=9.858 V 里知道久在 可 Iem/ger=0.675/0.5=1.35V

(3). 当 Rp为何值时, 放大器 临谷 放松处于临界的条件里: Vcc-Ucm=Eces= gcr 高病清楚的是改变Rp后,其它多量里在变化? Xx: Vce. ger. Ion Ucm 0 / ① Vec —— 该值里外加到某地极的直流地压,它不受 Ro 影响 ② ger — 这里品位管放大器的目有高性, Rp影响不到ger

③.Iom 一运行各堂的寂麻烦

.: Icm = Ico + I c1 + Io2 + ...

中Ic1= Ucm/R, 说明Icn与 Rp存去了、会变化? 但里,实际上,高级放大器从久压 > 临界过渡的过程中, Icm型恒定的(基本保持不变)、放 Icm 型恒定的

€ 八剩下 Ucm 3, 这个多数一定会变

·· ICM不变,而事截止角的建由cos O= Vbz-Vbb 决定 0与Rp无关,被。(1)被

:. Ici = Icm X1(0) 不变

·· Rp变化、产引起Ucm变化了。

D. Vom = Voc - Ich = Ici Rp

.. Rp = (Vcc - Icm)/Icu

= (24 - 0.675) /0.28284 = 80.0852

P = = 1 Ic1 Rp = 3. 203 W

$$\eta_c = \frac{P_{\infty}}{P_{DC}} = \frac{3,203}{3,8718} = 82.7^{\circ}$$