I hand konduktion & reastarker. J. 2 应用 I.1 Moder. "amc" Fitter. 0TA = 1 7= 0 OPV . TERC. 中国李紫龙 Uc= jnc In, i= de = cdn = In=c.sye In= galle. un - 37 - au | T 一事致性。 Uc = Tou In = - gitte 一度多种的 => 21 = U/In = SC-AM = S. CT2. 中容也什 多水儿色 f.3. Transistion als Elementar JT = LaA 27 FR 18 Ia= Is exp (- Ue) NIOS. 可变的儿龙. ID= B(Nas-Uth)2 (1+AUDS), 厄主效应了加思路 gr = N=B. IDA CI+ QUOSA) , = N=BIOA = gm 村流飞 Ia= In = B[ (Ne- Uth) Ups - Ups 2] JT= In= p- MOSA 门旋(考个私大儿路). 1. 种线性 2. 丁, 花. 3. 厚山原投 J. 4. Scholansprinzipa J.4. A 差写 NDA

Ta= In- Is= Io tamb = 107

/ 当天PEAJ. 9T= = 10 = 10 = 107 求好了. F(In, Na) = Io tach Me-Ia. D. - In=D. + 131例加. tohx ~ X, Io- 10- 10- (Ne-Ia-1) - Ia= 0 To due - ( To PE + M) d Ia = 0 => d Ia = Io due = Io To PE + 4 UT = 1 DE 由一A+A+ i3. AF= 97.些, My环路性益.  $|a = 10 \text{ on Me} + 0.5 \text{ Me}^2 + 0.5 \text{ Me}^3 , \implies |a = 10 \text{ Me}^2 + 0.5 \text{ Me}^3 + 0.5 \text{ M$ ① HP3= 4 | 0 | (ne2 = 49 (n+ PE. 27)3 (he)2, 例不(存在版) 



TK-01.

1.) 
$$g_{T} = \frac{I_{CA}}{U_{T}} = \frac{I_{D}}{2U_{T}} = 1. P_{2}mS$$
  
 $I_{CA} = g_{T} Ue \Rightarrow \hat{U}_{1} = U_{T} = 26 mV$   
 $HP_{3} = \frac{1}{12} (1)^{2} - 1^{2} = \frac{1}{49}$ 

2). 
$$HD_3 = \frac{1}{49} \left( 1 - \frac{PE}{2} - 9 \right)^3 \left( \frac{Ne}{Nt} \right)^3 = \frac{1}{480}$$

$$\frac{1}{1 - \frac{PE}{2}} \cdot 97 = |A_0|^{\frac{1}{3}}$$

$$\frac{1}{1 - \frac{PE}{2}} \cdot 97 = |A_0|^{\frac{1}{3}}$$

$$\frac{1}{1 + 97 \cdot \frac{PE}{2}} = |A_0|^{\frac{1}{3}}$$

1) 
$$Hp_3 = \frac{1}{32}$$
  $\frac{1}{L_0}$   $\frac{1}{10}$   $\frac{1}{10}$ 

TK-03 陳始説明、可参见 Enstellon schooling に共和党量、在MOS

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の当 1+16+2nIo= Io

の当 I+16=(1-2nIo) 当 To 年限中記: 1516、2014日 → 12=1100→ 3い2=1100→ 3い

(\*) 
$$V_{1} = \frac{1}{1_{A} - 1_{A}} = \frac{1}{1_{$$