$\lambda_n = \lambda_p = 0$ Design 7 Initial Assumptions 7 Vin n = 0-37 V V+1 = 039V Ixf = 10 WA V00 = 1.8 V Mylox = 230 NA/V2 So Itail = 10 Ing = 100 MA W/Cox = wo wA) >2 Circuit Diagram → Irely = 1 Mn Cox (M) (Vas-Vin) (W) >> 10 × 10 8×2 (200× 103)2 $\left| \left(\frac{\omega}{L} \right)_{7} = 2.17$ For Mo > Hull=100MA. , (Vas-Vtm)=200m) I fail = { lin lox (Y) (Vas-V4n)2 $\left(\frac{1}{2}\right)_{0} = \frac{2 \times 100 \times 10^{-6} \times (200 \times 10^{-3})^{2}}{230 \times 10^{-6} \times (200 \times 10^{-3})^{2}}$ (2) = 21.7 (.

For
$$M_1, M_2$$
 $J = \frac{1}{2} \frac{1}{2} = 50.4A$
 $J = \frac{1}{2} \frac{1}{2} \frac{1}{2} (V_{01} - V_{01})^2$
 $V_{02} - V_{01} = 3.5\%$ of $V_{00} = 3.5\%$ $1.8 = 3.00$
 0.00 N
 $V_{02} - V_{01} = 3.0\%$
 $V_{03} - V_{00} = \frac{5}{2} \times 230 \times 10^{-6} \text{ (W)}, (0.00)^2$
 $V_{03} = \frac{50 \times 2}{230 \times (0.00)^2}$
 $V_{03} = \frac{50 \times 2}{230 \times (0.00)^2}$
 $V_{03} = \frac{53.67}{230 \times (0.00)^2}$
 $V_{03} = \frac{1}{2} \frac{1}{2}$

$$(Y_{0})_{n} = \frac{1}{\sqrt{14}} \Rightarrow \frac{1}{\sqrt{14}} \Rightarrow$$

For gain of 2nd shape I

$$g_{ms} = \frac{2 \text{ Id}}{V_{0s} - V_{4h}} \Rightarrow \frac{2 \times 100 \times 10^{-6}}{0.2} = 10^{-3}$$
 $(80)_{0.5} = \frac{1}{4 \text{ Id}} = \frac{1}{0.11 \times 100 \times 10^{-6}} = 10^{-3}$
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