Schmitt Triegger Twoffen Perfinent Equations Eleverting: V= (Rz ) VREF VREF RILL VO = 1/3 + (Rill ) Vo = This is the francision wolkage

VI(H>L) when Vo is anything or

VI(H>L) when Vo is anything or VT(1->4) when Vo is Engative rail Mor-charting: Vs = (1+ R1) VREF V2 V2 V0 V7 = V5 - (R1 V6 Ex 15.7 chowling with Vs=1V: hysteresis width is 100mV ±10 Vrails, Ig = 200, A w/ Vo+10V  $\frac{1}{R_{1}+R_{2}} = 0.005 \Rightarrow \frac{R_{1}+R_{2}}{R_{1}} = 200 \Rightarrow 1 + \frac{R_{2}}{R_{1}} = 200$  $R = \frac{10 - 1.4 - 100(200 \text{ m/s})}{200 \text{ m/s}}$   $\frac{R_2}{R} = 199 \stackrel{?}{=} \frac{R_1}{R_2} = 5.025 \times 10^{-3}$ (R2/R+R2) VREF =/=> VREF = 1 (K, t/Z) = 1 (1+ R/2) R=42,9ks = \( \( \tau + 5,025 \times \( \tau^{-3} \) VREF = 1,005 V

Now-Inverting

Rail Voltages: 
$$\pm 12V$$
  
 $V_{T(H \Rightarrow L)} = -2V$   
 $V_{T(L \Rightarrow H)} = -1V$   $V_{S} = -1.5V$ 

$$V_{T(H\rightarrow L)} = Z = -1.5 - (\frac{P_1}{P_2})$$

$$V_{T(H\rightarrow L)} = Z = -1.5 - (\frac{P_2}{P_2})12$$

$$O.5 = \frac{P_1}{P_2} \cdot 12$$

$$\frac{P_2}{P_2} = O.0417 = > P_1 = 833.2$$

$$V_{REF} = \frac{-1.5}{1.0417} \quad for \quad P_2 = \frac{20k.C}{1.0417}$$

$$V_{REF} = \frac{-1.44}{1.0417}$$