

| R_1 | R_2 | V_{ref} | V_{UT} | V_{LT} | V_h | Input waveform | | |
|-------|-------|-----------|----------|----------|-------|----------------|-----------|-----------|
| | | | | | | Type | Amplitude | Frequency |
| | | | | | | | | |
| | | | | | | | | |

Schmitt trigger with non-inverting transfer characteristics :

The bistable multivibrator shown below in fig. 6.2 has non-inverting transfer characteristics (with increasing value of input whenever the output level changes the change is from $-V_{sat}$ to $+V_{sat}$).

The expression for the threshold voltages is given by

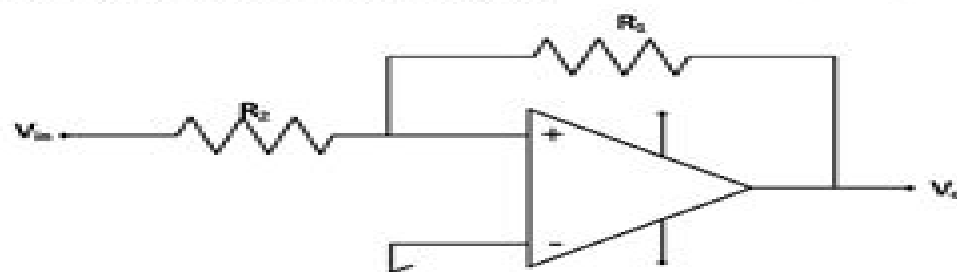
$$|V_{UT}| = |V_{LT}| = \left(\frac{V_{sat} R_2}{R_1} \right)$$


FIG. 7.2 Schmitt Trigger (NONINVERTING MODE)

PROCEDURE:-

1. On a bread-board make a neat circuit of the schmit trigger as shown in fig. 6. 2
2. Use dual power supply to make available a voltage of $\pm 8V$. This choice is not unique!! You can bias the amplifier with lower / higher or even unsymmetrical voltages.
3. After biasing the IC 741 ($+V_{sat}$ to Pin-7 and $-V_{sat}$ to Pin-4), connect the following input to pin 2:
 - (i) Sinusoidal wave with 10Hz frequency (amplitude = 5V)
 - (ii) Triangular wave with 10Hz frequency (amplitude = 5V)
4. Select $R_1 = 20 \text{ K}\Omega$ and $R_2 = 10 \text{ K}\Omega$ so that

$$|V_{UT}| = |V_{LT}| = V_{sat} \frac{10}{20} = 4V$$

5. Observe the output waveform (pin-6) and the input waveform (pin-2) on the DSO in y-t mode. Apply both the inputs in turn and measure the values of V_{UT} and V_{LT} . As is evident from the expression for these threshold voltages they are independent of the type and amplitude of input, you should obtain same values for V_{UT} and V_{LT} for both the inputs.

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