

a second display is then presented for an adjustable short time interval, which may be followed by either a repeat of the original card (or) by a third display.

- changes of displays is achieved by switching the illumination (or) by means of electromechanical shutters.

- By varying the presentation time for the second display & by using displays of various complexity, the perception & recognition of objects can be studied.

Galvanic skin Response (GSR):

- For measuring variations in perspiration, a special technique has been developed.

- In response to an external stimuli, such as touching a sharp point, the resistance of skin shows a characteristic decrease, called Galvanic skin response (GSR).

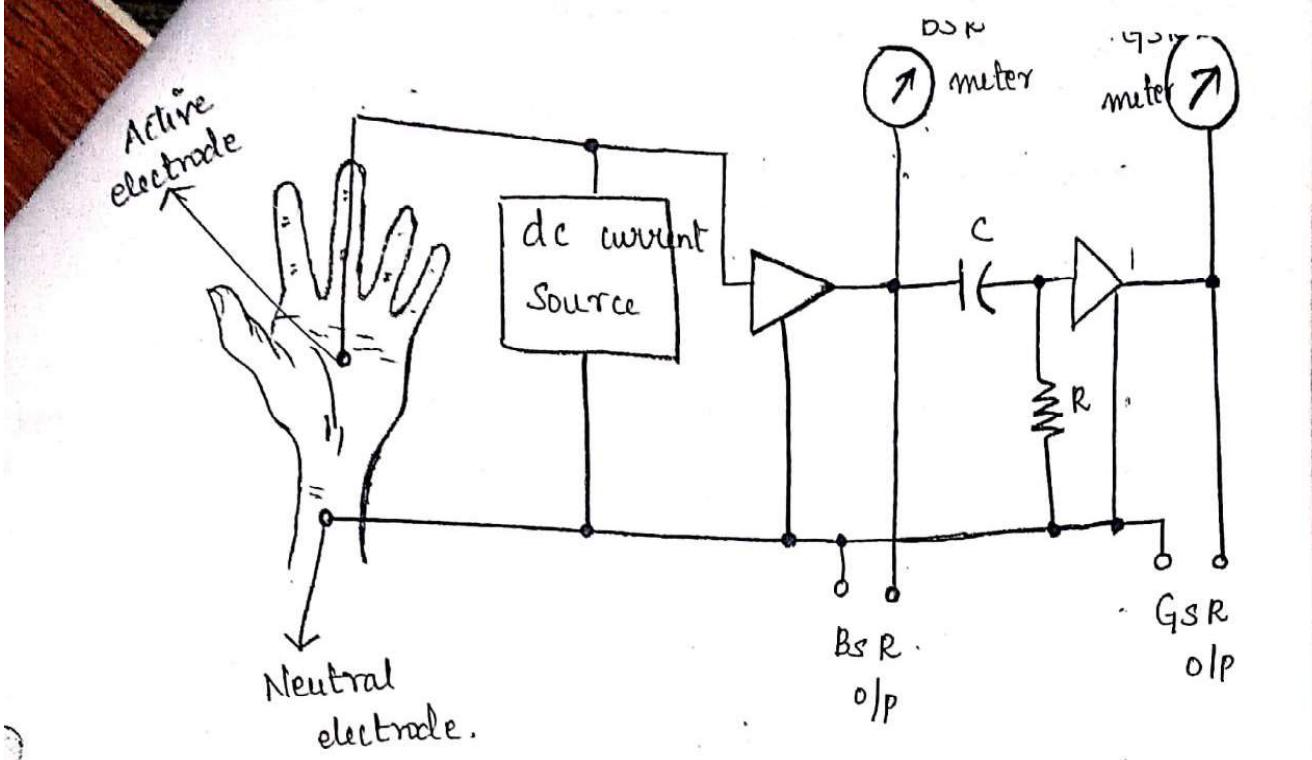
- The Baseline value of the skin resistance in this context, is called Basal skin resistance (BSR).

- GSR is caused by the activity of the sweat glands.

- It does not depend on the overt appearance of perspiration & the mechanism of

BSR is not completely understood.
BSR is measured at the
of the hand (where the body has highest
concentration of sweat glands).

- Active electrode will be placed at the centre of the palm.
 - Neutral electrode will be placed at the wrist (or) at the back of the hand.
 - In some devices, simply clips are attached to the two fingers.
 - To increase stability, silver-silver chloride surface electrodes are used with electrode gel (which has same salinity as the perspiration).
 - To minimize polarization at the electrodes, the current density is kept below $10 \mu\text{A}/\text{cm}^2$.
- dc current - Current generator sends a constant through the electrodes.
- basal skin - A voltage drop across the resistance, on the order of several kilohms to several hundred k Ω , is measured with an amplifier & a meter that can be calibrated directly in BSR values.



- A second meter, coupled through R_C network with a time constant of about 3 to 5 seconds, measures the GSR, as a change of skin resistance of from several $\text{k}\Omega$ to several $\text{M}\Omega$

- O/p can be recorded on a graphic recorder.

- Change of GSR, depending on the experimental conditions & its latency (time delay b/w stimulus & response), can be used to study emotional changes.

- Instead of the change of the skin resistance, the change of skin potential has been used occasionally.

- Potential difference of b/w 50 & 70 mV that can be measured b/w nonpolarizing electrodes