

· MOSFET 98 combination of four terminals

- 1 Source
- 2 Drain
- 8) Gate
  - (4) Body

There are 3 types of modes,

- 1) Accumulation made, where Vallage I Lo, the gate voltage is negative voltage than, Minoty change tholes it nmost carries get attracted towards the surface, there is no flow of change and no chance to form channel.
- 2) Depletion mode, where very o, the gate voltage is positive voltage, then the majority change consider and minority change consider repeleash others. There is a formation of depletion region. No channel formation.

8) Inversion made, where vy> vth [threshold voltage], the gate voltage is positive voltage, then the es get attracted towards the surface and form inversion layer between source and brain terminal called as channel. 'No flow of change.

Types of regions,

(1) cuttoff region:

VCAS ZODO (NDS = 0)

\* No channel formation

\* NO flow of charge

(2) Linear region:

[VG8 = VH) ] + [VD8 = 0]

\* channel can be fourned.

\* No flow of change

3) Saturation region!

VGS>Nth

NOS = 248-74

\* channel can be formed.

\* flow of change is possible

4) pinchoff region: Vos = Nas-Vth The channel get decreased towards drain at some Nos point, netcharge =0 channel increases towards source. Due to electrifield the es are thrown from Drain to source.

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