Metal Oxide Semiconductor Field Effect transitor (MOSFET)

MOSFET works both in depletion & Enhancement mood of operation.

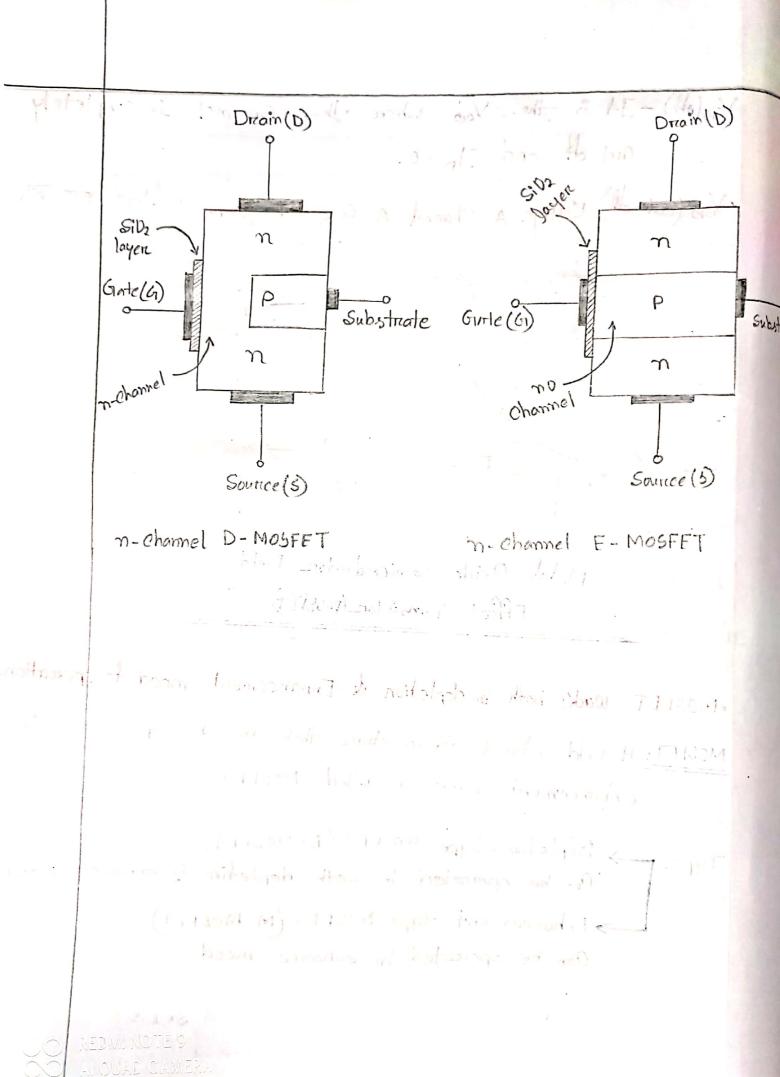
MOSFET: A field effect transistor that can be operated in enhancement mode is called MosfET

Types Depletion-type MosfeT (D-MosfeT)

Can be operated in both depletion & enhance mood

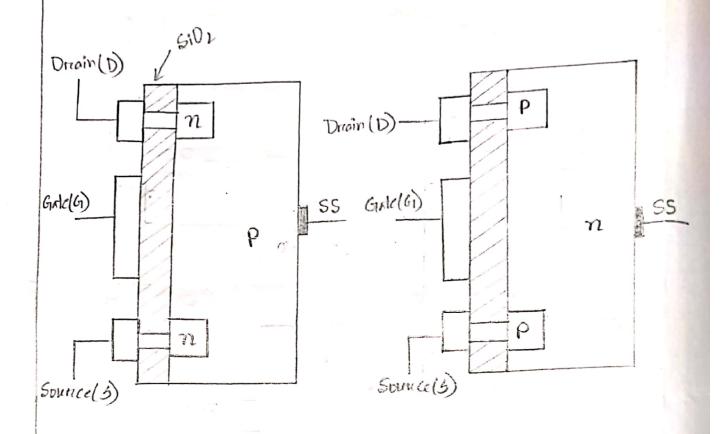
Finhancement-type MosfeT (M-MosfeT)

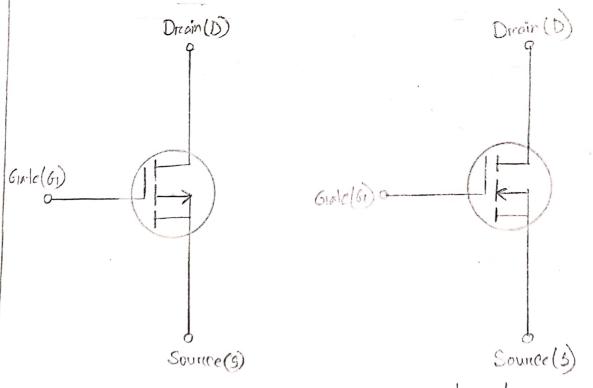
Can be operated in enhance mood.



Construction & Symbol (D-MOSFET) 1 Trisulated layer Troulated Drain (D) Drain(D) η SS Grate(G) n P P n Girle (6) P N Sounce (5) Source(5) D-MOSFET n-channel P-channel D-MOSFET O Orcain (D) 9 Dreain Gole(6) OLLIC Sounce (5) Source P-Channel n-channel

Construction & Symbol (E-MOSFET).



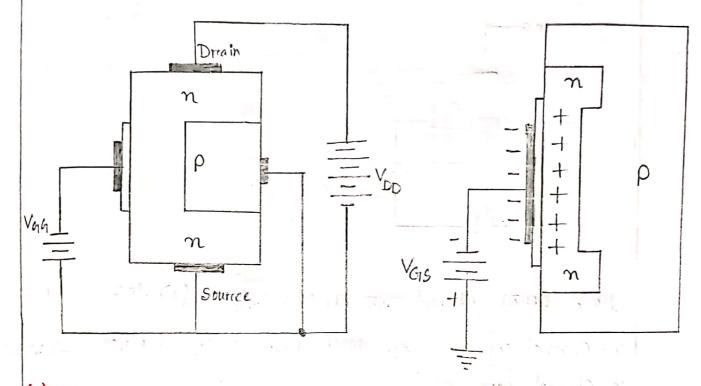


P-Channel

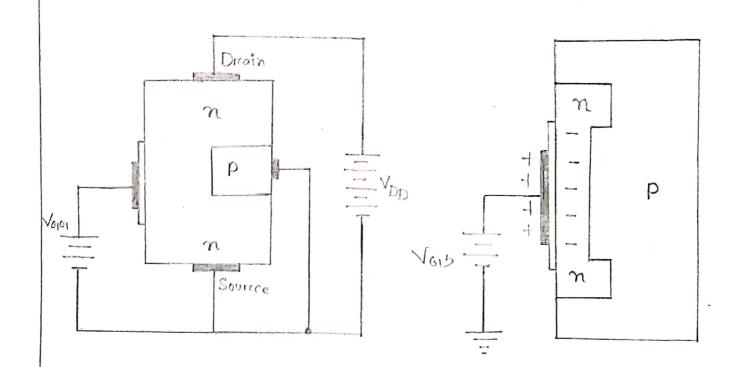
n-channel

· Circuit Operation (D-MOSFET)

(1) Depletion Mode: Vas 2(4 (-) 2(1) n-channel ana

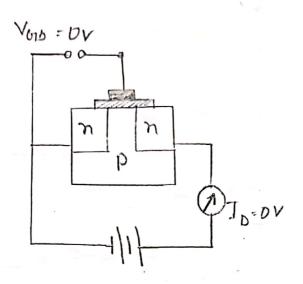


(ii) Enhancement Mode: VGIS (+) 7(m n-channel aluga



TREDMÍNÔTE 9

Circuit Operation (E-MOSFET)



MACH Con(A) Channel For ATI ATE Vois (4) MITS ANTERCE TO PASSAGE (3) TO (A) MITS ANTERCE TO FRANCE (-) ON(A) MICHIGAN CONTRACTOR OF TO CHANNEL COST TO THE COST TO CHANNEL COS