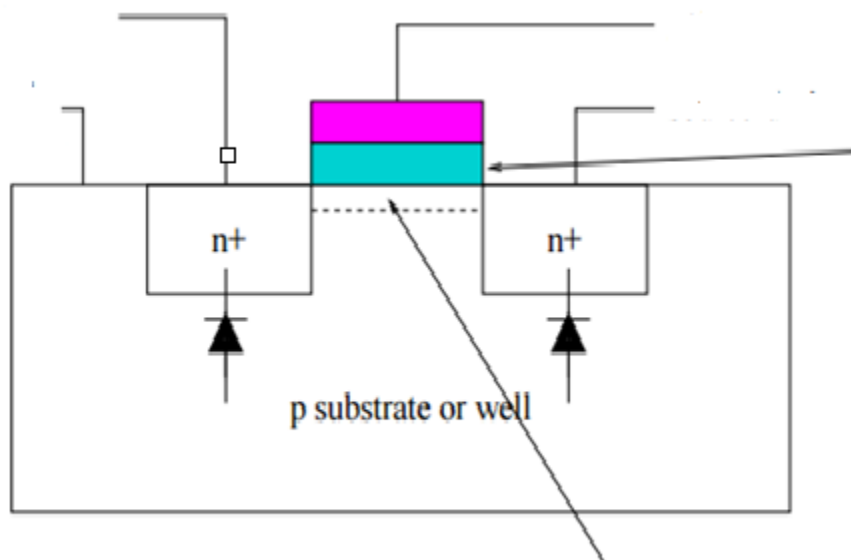
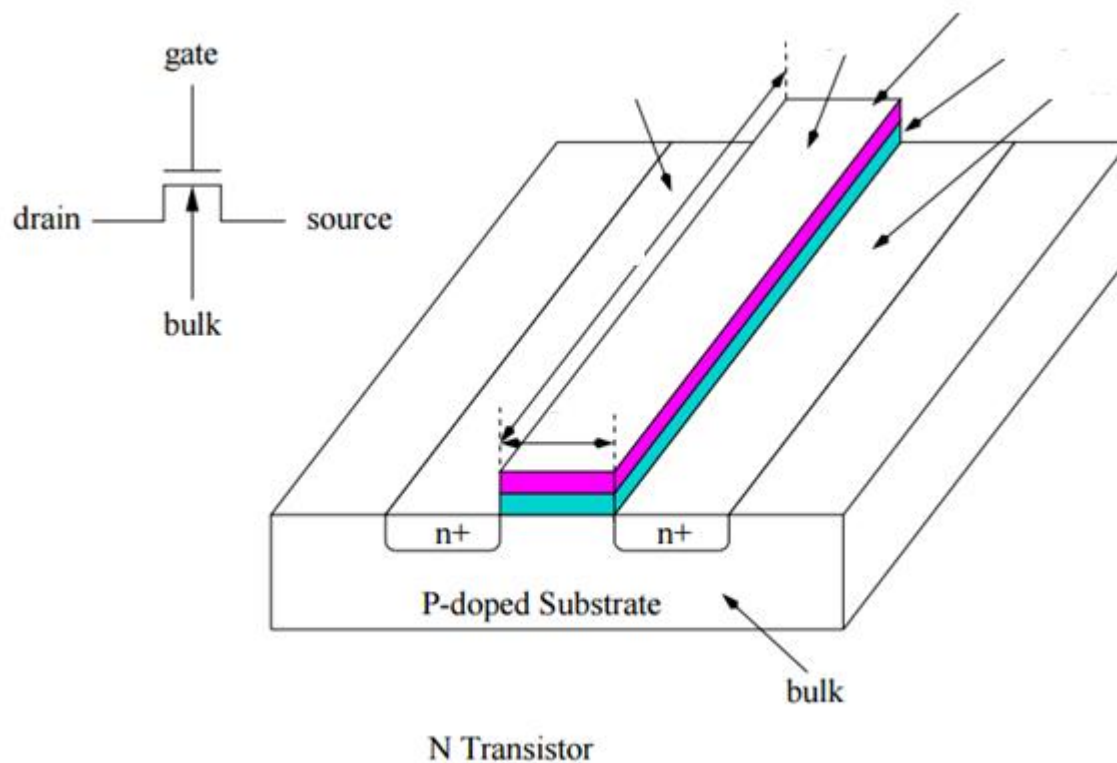


1. How does an n-type MOSFET work? Why does the current saturate at high V_{DS} ? **Do not write more than two pages. Diagrams are always helpful.**
2. Draw or Name all device parts for cross section of n-type transistor as shown below (also mark width (W) and length L):



3. Explain the three region of operation of the NMOS device , draw the three region of operation (I-V curve)
4. Explain how does the current depends on the process /Geometry of the device ?
5. What does V_t depends on ?