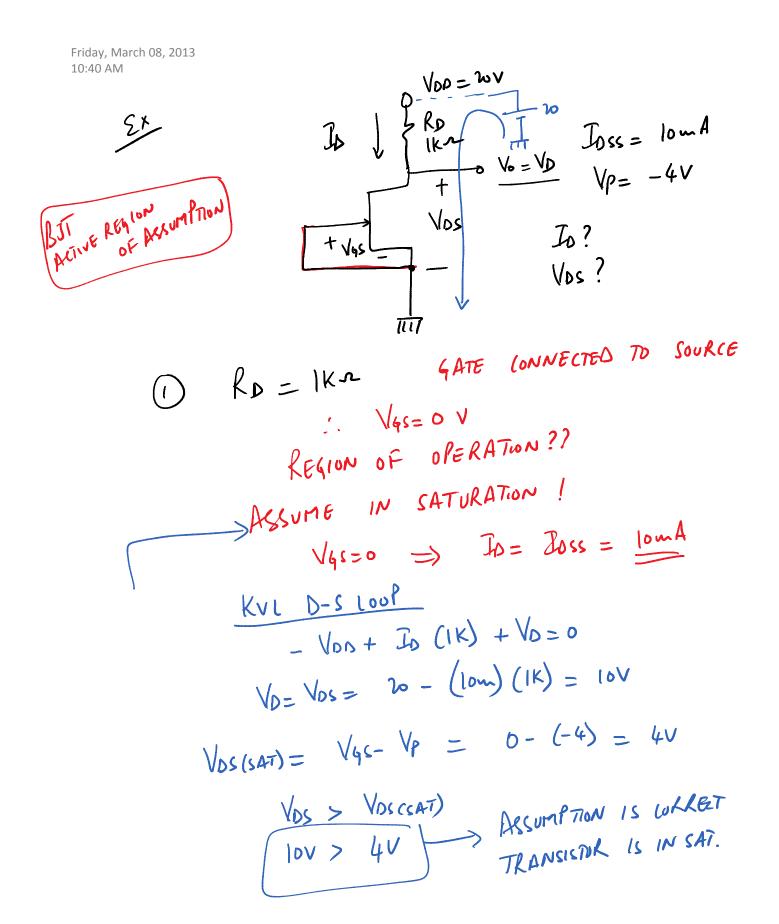
LECTURE - 34

VOS(SAT)



Friday, March 08, 2013 10:44 AM

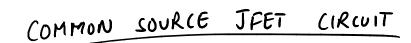
$$\frac{20 - \sqrt{05}}{1.8 \text{ K}} = \frac{10 \text{ m}}{2} = \frac{10 \text{ J}}{2}$$

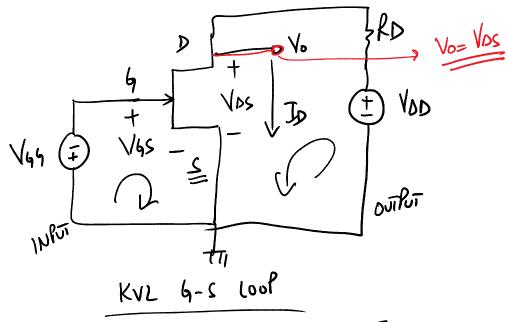
$$\frac{16}{16} \sqrt{05} = \frac{10 + \sqrt{100 - 90}}{2.25}$$

$$\sqrt{05} = \frac{10 + \sqrt{100 - 90}}{2.25}$$

$$\sqrt{05} = \frac{3.039}{3.039} = \frac{9.423 \text{ mA}}{1.8 \text{ K}}$$

 $V_{OS}(SAT) = V_{GS} - V_{P} = -1.47 - (-4) = 2.53V$ $V_{OS} = 6V > V_{OS}(SAT) : TR. IS IN SAT.$

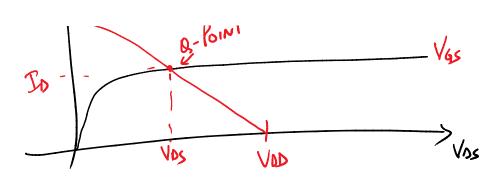


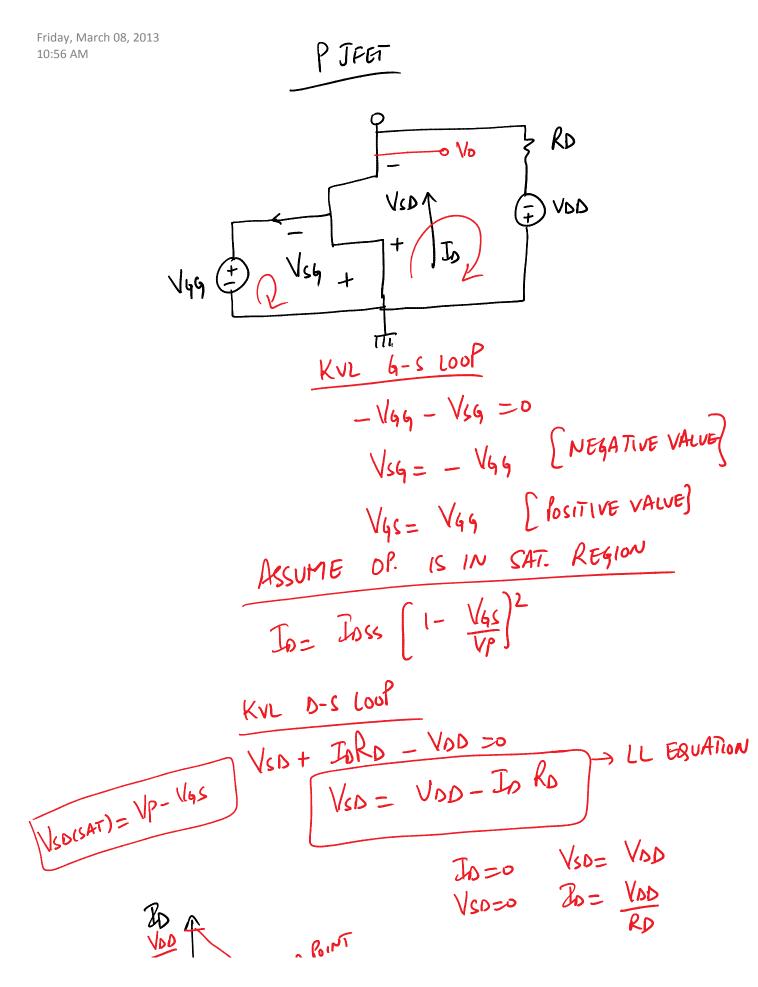


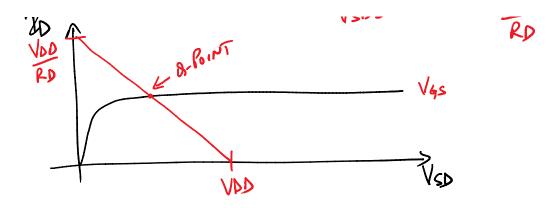
$$V4s = -V49$$

[NEGATIVE VALUE]

VOS(SAT) = VGS-VP [POSITIVE VALUE)







SOURCE FOLLOWER CIRCUIT

$$V_{49} = V_{48} - V_{48} + V$$

Friday, March 08, 2013 11:03 AM

