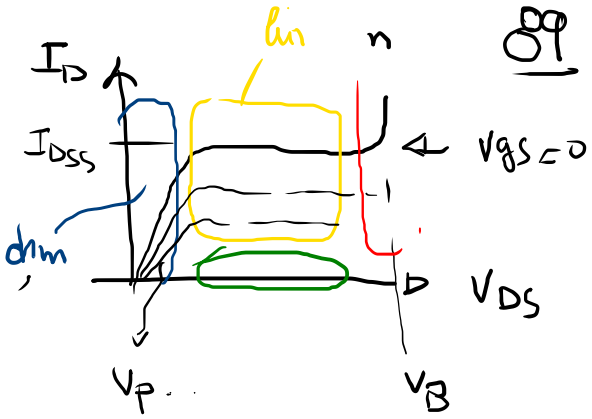
$-K_1'$ ~ g → ⊣ d, s



- $I_D = I_{DSS}\left[2\left(1-\frac{V_{GS}}{V_{GSoff}}\right)\frac{V_{DS}}{-V_{gsoff}} - \left(\frac{V_{DS}}{V_{GSoff}}\right)^2\right]$
- $I_D = I_{DSS}\left[1-\frac{V_{GS}}{V_{gsoff}}\right]^2$

$$R_{DS} = \frac{1}{g_m} \qquad g_{m\emptyset} = \left|\frac{2\cdot I_{DSS}}{V_{GSoff}}\right|$$

$$g_m = g_{m0}\cdot\sqrt{\frac{I_D}{I_{DSS}}}$$

$$R_{DS} = \frac{1}{g_{m0}\sqrt{\frac{I_D}{I_{DSS}}}} = \frac{1}{g_m}\cdot\sqrt{\frac{I_{DSS}}{I_D}}$$