

P Javod naponskoj pojačanje u urible breiems at alth ind that Rs Was + LAV= Will - ld strara pad naponi na paraleli -> U12 pod napona na Rs je Ugs (G-S) UIZ= - id (Roll Rt) \* jeomake polanizacje idu na 1stu staniu Ugs + u ugs = id (ra + Ro 11 RT) id = - (1+4) Unl rd + Rp 11 RT tailinam je izazili sve Uw = - Ugs pre ulaz-izlaz  $\frac{|\mathcal{U}|^{2}}{|\mathcal{U}|^{2}} \frac{|\mathcal{U}|^{2}}{|\mathcal{U}|^{2}} \frac{|\mathcal{U}|^{2}}{|\mathcal{U}|^{2}} \frac{|\mathcal{U}|^{2}}{|\mathcal{U}|^{2}} \frac{|\mathcal{U}|^{2}}{|\mathcal{U}|^{2}} = |\mathcal{U}|^{2} \frac{|\mathcal{U}|^{2}}{|\mathcal{U}|^{2}} \frac{|$ 7 (1+M) Uwl u maju napouske upravljačke elektrode

pojočavje je >0

parable => | Av = gm. (rd | Ro | Rt) identican izrazu se spoj saybanickej uvode samo >0! ► Masni otpor po definicy Rul = "int  $lul + id = \frac{Mul}{Rs} \qquad * id = -\frac{(1+\mu)Mul}{rd + Roll RT}$ => lul = Wul + (1+d1) Wul rue= Mul (Rs + (1+11) ra+RollRt)  $\forall$  yield se oa osmova  $\rightarrow l' = \frac{U}{R_1} + \frac{U}{R_2}$ R=R111R2-> Rul=Rs | (rab+Rather) => Rul=Rs | rd =>  $\left| Rul = R_5 \right| \left| \frac{1}{gm} \right|$ ulasm otpor čitavoj pojačala odristeno je s uvodskim opovom Rs, ali i sa strminom Mosfet-a u R.T. · Warni ofpor u spoju regionnice el el mode je NZAK

-> na warne strangte se predikavaju opposi iz izlaznoj discla oblopa ali SMANVENI (Itu) puta

$$id = \frac{\alpha}{r\alpha + (1+\mu)(R_S||R_g)} \longrightarrow i = \mathcal{U}\left(\frac{1}{r\alpha + (1+\mu)(R_S||R_g)} + \frac{1}{R_D}\right)$$

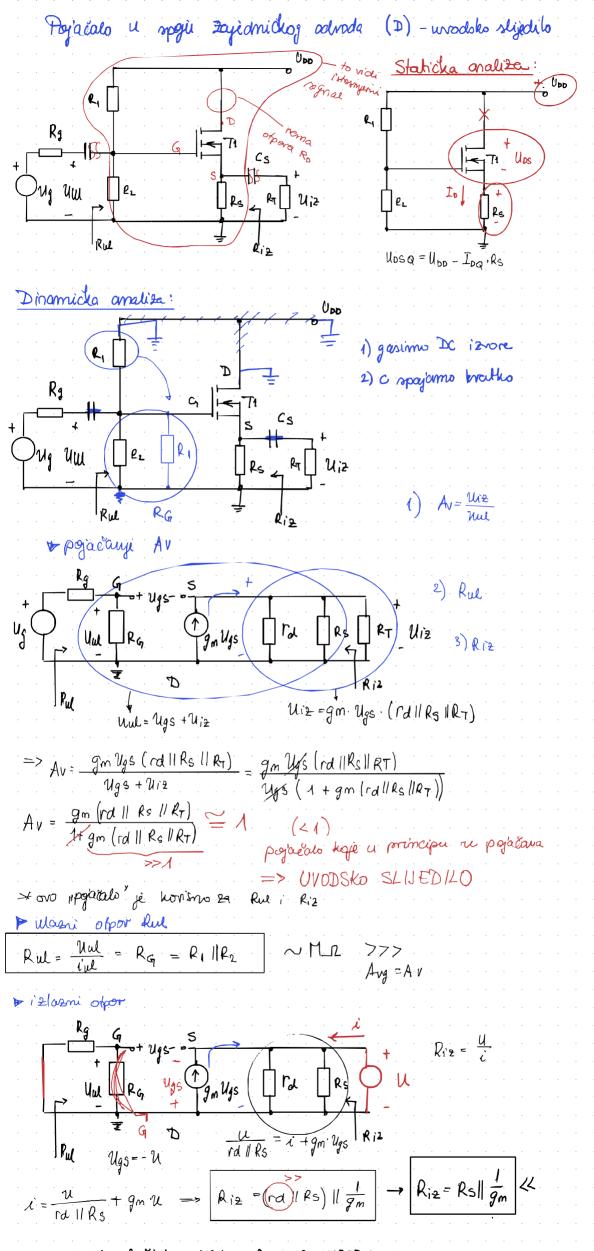
$$= \frac{1}{R_{12}} = R_D ||[r\alpha + (1+\mu)(R_S||R_g)]$$

Pringer 6.9.)

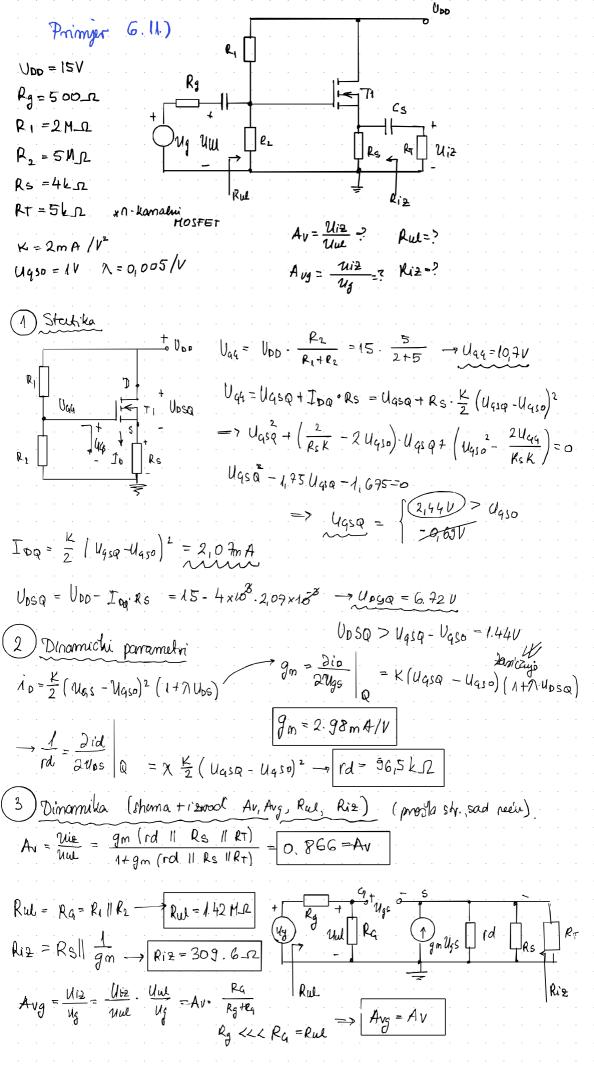
Rul LLL

Upp =15V

Rg = 500\_12



=> ovo pojačalo služi keo TRANSFORHATOR IMPEDANCIJE
L, čuva amplitudu sigrala, ali smaryiye impedancija



## Usporedba osnovneti spojeva pojačale o FET-ovima

Spoj pojožala	<b>A</b> v	Rue .	· · · · · · · · · · · · · · · · · · ·
Zejeomički uvod	gm(rd  Ro  Rt)	R 4>>7	Ro IIra
Lejodnicha uprav elektroda	+gm (rd 11R0 11R+)	$Rs \parallel \frac{1}{g_m} \swarrow$	Roll(vd+(1+,4)(RsllRg))
Zujednicki odvod	9m ( to    Rs  RT) 1+gm( to    Rs   RT)	RG >>>	Rs   I gm CCC
	~1 (slycdib)		l

 $\rightarrow$  analiza ovig pojačala temelji se na metodi superpozicije  $\rightarrow$   $R_{Ju} = R_{JDC} + R_{JAC}$ 

nation promalable SRT - trazimo din parametre - izmjenični signal mora biti MALI da bi Unlarmost ortala sakurawa!

- gastomo Vap - brathe spajarmo C