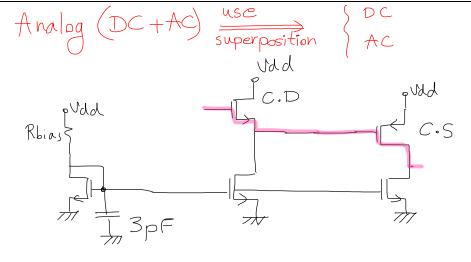


San Jose State University



$$Z^{1}Cgs = 375$$
 $= 375 \times 10^{15} \times 20 \times 10^{9}$

$$X_{gs} = \frac{1}{2000 \times 10^{6}} = 500$$

$$i = (g \circ t j \otimes C)$$

$$= (g \circ t$$

kcl (out):
$$io = jwcgs_1Ugs_1 + gm_1Ugs_1 = 0$$

$$(gm_1 + jwcgs_1)Ugs_1$$

$$= 0$$

$$g_{M1}+j_{Z}^{W}cgs_{1}=0 \Rightarrow j_{WZ}=\frac{-g_{M1}}{cgs_{1}}$$