

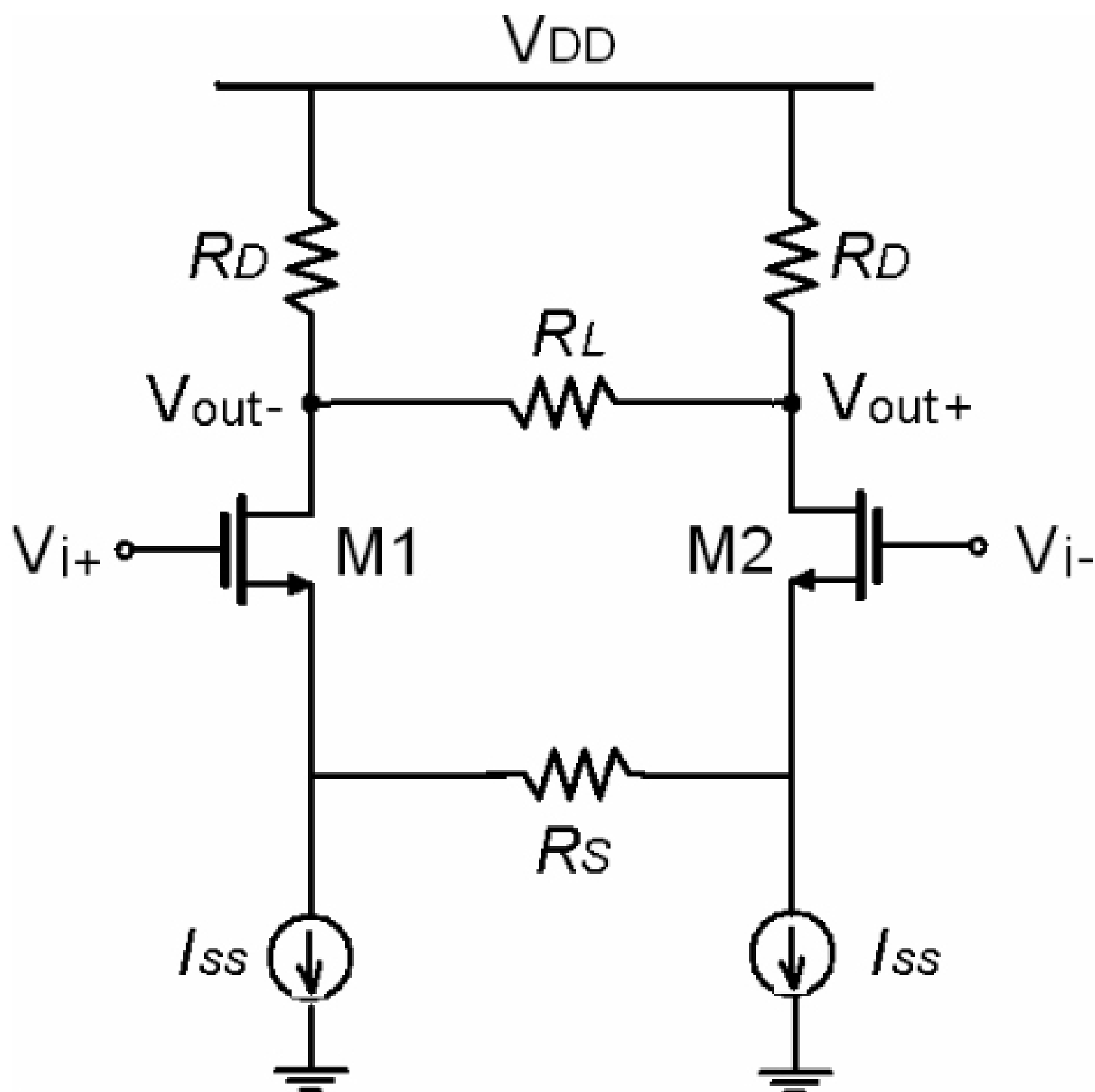
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Homework #3
(Due 9/17/03)

EECS 140
Fall 2003

1. Neglect body effect and assume $\lambda = 0$. Use half circuit concepts to determine the CMRR of the circuit below. (In terms of small signal parameter of the transistor and resistors R_D , R_L , R_S .)



2. Assume all MOSFETs are in the saturation region, ignore body effect and assume $\lambda \neq 0$. Calculate the small-signal voltage gain of each circuit in terms of g_m and r_o .

