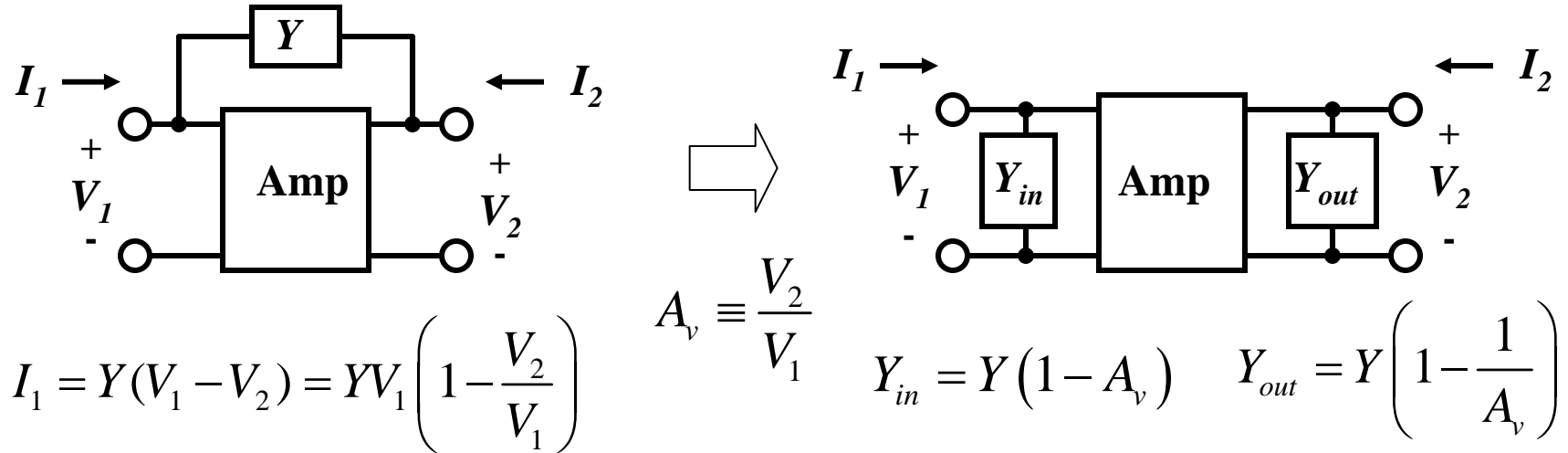


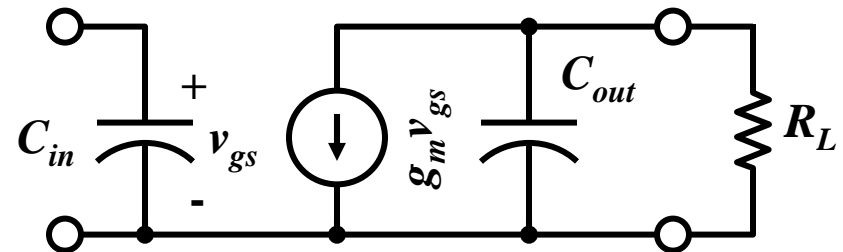
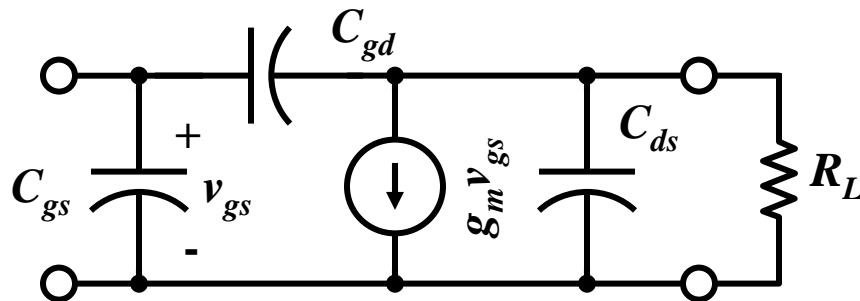
Miller Effect

A series element can be transformed to shunt elements if the transfer function is known



Application to Transistor Circuits

Increase in C_{gs} is called the “Miller-effect”



$$A_v = -g_m R_L$$

$$C_{in} = C_{gs} + C_{gd} (1 + g_m R_L) \quad C_{out} \approx C_{ds} + C_{gd}$$