

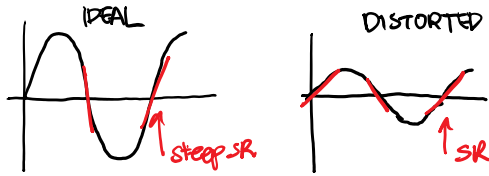
OPAMP Non-Idealities

November 19, 2017 21:09

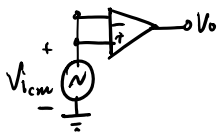
Slew Rate: maximum rate of change of output waveform:

$$SR = \left. \frac{dv_o}{dt} \right|_{\max} = \omega_i V_i$$

↑
max. frequency before distortion



Common-Mode Rejection Ratio



Ideally, $V_o = 0$.

But no, $A_{cm} = \frac{V_o}{V_{icm}}$

$$CMRR = 20 \log \left(\frac{|A_d|}{|A_{cm}|} \right), \quad A_{cm} = \frac{\Delta R_e}{2R}, \quad V_d = -g_m R_e$$